TOWN OF YUCCA VALLEY
PLANNING COMMISSION MEETING

The Mission of the Town of Yucca Valley is to provide a government that is responsive to its citizens to ensure a safe and secure environment while maintaining the highest quality of life.

PLANNING COMMISSION: 6:00 PM
TUESDAY, APRIL 14, 2026
Yucca Valley Community Center - Yucca Room
57090 Twentynine Palms Highway
Yucca Valley, CA 92284
and
JW Marriott Washington, DC - Main Lobby Lounge Area
1331 Pennsylvania Avenue NW,
Washington, DC, USA 20004

https://zoom.us/j/92089627579?pwd=qaQkUOe5oWXK1qNtm0HTjoBbhBJEe2.1
Meeting ID: 920 8962 7579 Passcode: 479987

Use the above link to virtually access the meeting. You will automatically be muted upon entry. During the meeting, participants will be prompted to "raise hand" or inform the meeting moderator when wishing to make a public comment. Comment time is limited to 3 minutes or as instructed by the Mayor/Chair. If any technical difficulties occur resulting in lack of connectivity or virtual streaming, the in-person meeting will continue to proceed.

* * * *

Planning Commission
James Henderson
Gerard Noonan
J Clint Stoker
Alejandro Vasconcelos
Mathew Thomas

* * * *

TOWN ADMINISTRATIVE OFFICE:
760-369-7207
Public Comments: townclerk@yucca-valley.org
www.yucca-valley.org

AGENDA
MEETING OF THE PLANNING COMMISSION
TUESDAY, APRIL 14, 2026, 6:00 PM

The Town of Yucca Valley complies with the Americans with Disabilities Act of 1990. If you require special assistance to attend or participate in this meeting, please call the Town Clerk's Office at (760) 369-7209 at least 48 hours prior to the meeting

The meeting agenda packet is available for public view in the Town Hall lobby and on the Town's website at www.yucca-valley.org prior to the meeting. For more information on an agenda item or the agenda process, please contact the Town Clerk's office at (760) 369-7209 ext. 226.

If you wish to comment on any agenda item or on any subject not on the agenda during public comments, please fill out a request to speak card and give to the Town Clerk/Commission Secretary. Comment time is limited to 3 minutes.

Where appropriate or deemed necessary, action may be taken on any item listed in the agenda.

OPENING CEREMONIES:

Call to Order

Roll Call

James Henderson, Gerard Noonan, J Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

Pledge of Allegiance

Approval of Agenda

1. Approve the meeting agenda for April 14, 2026, as prepared.

   Recommendation:
   Approve the meeting agenda for April 14, 2026, as prepared.

Consent Agenda

All items listed on the consent calendar are considered to be routine matters or are considered formal documents covering previous Planning Commission instruction. The items listed on the consent calendar may be enacted by one motion and a second. There will be no separate discussion of the consent calendar items unless a member of the Planning Commission or Town Staff requests discussion on specific consent calendar items at the beginning of the meeting. Public requests to comment on consent calendar items should be filed with the Commission Secretary before the consent calendar is called.

2. Approve the meeting minutes for March 24, 2026, as prepared.

   Recommendation:
   That the Planning Commission approves the minutes for March 24, 2026, as prepared.

Public Hearings

3. Environmental Assessment, EA 18-23; Site Plan Review, SPR 07-23, Resolution PC 26-

02, Sun Mesa Mini Storage. A request to construct and operate an 79,600 square foot self-storage facility with manager's unit, landscaping, and off-site street improvements. The project site is located at 4815 Newton Lane and is also identified as APN: 0597-111-67.

Recommendation:
Environmental Assessment 18-23:
That the Planning Commission adopts the Resolution, the Mitigated Negative Declaration and Mitigation Monitoring Report for Environmental Assessment 18-23.

Site Plan Review 07-23
That the Planning Commission approves SPR 07-23, a request to construct and operate an 79,600 square foot self-storage facility with manager's unit, landscaping, and off-site street improvements.

4. Environmental Assessment, EA 03-25; Conditional Use Permit, CUP 02-25, Resolution PC 26-03, Dutch Bros Coffee, the proposed construction of a 1,025 square-foot Dutch Bros Coffee with a drive through service window and a covered walk-up service window and incidental site improvements. The approximately 1.01-acre vacant Project Site is located at 58121 Twentynine Palms Highway (APN: 0601-416-05), approximately 275' southwest of the intersection of Twentynine Palms Highway and Balsa Avenue.

Recommendation:
Environmental Assessment 03-25:
That the Planning Commission adopts the Resolution, the Mitigated Negative Declaration and Mitigation Monitoring Report for Environmental Assessment 03-25.

Conditional Use Permit 02-25:
That the Planning Commission approves CUP 02-25, the proposed construction of a 1,025 square-foot Dutch Bros Coffee with a drive through service window and a covered walk-up service window and incidental site improvements.

5. Environmental Assessment, EA 02-25; Specific Plan 01-04 Amendment #2, Conditional Use Permit, CUP 01-25, Resolution No. 26-XX, Ordinance No. XX, Walmart Fuel Station. A request to amend the existing Specific Plan to allow for the construction and operation of a fuel station with six (6) fueling pumps, twelve (12) fuel dispensers, a 4,950 square foot fuel station canopy, and a 1,556 square foot convenience store. The project site is located at 58501 Twentynine Palms Highway and is also identified as APN: 0601-201-54.

Recommendation:
Environmental Assessment 02-25:
That the Planning Commission recommends approval of EA 02-25, and adoption of the resolution, to the Town Council, for Addendum #1 to the previously adopted Environmental Impact Report.

Conditional Use Permit 01-25:
That the Planning Commission recommends approval of CUP 01-25, a request to construct and operate a six (6) pump gasoline station, twelve (12) fuel dispensers, 4,950 square foot fuel station canopy, and a 1,556 square foot convenience store.

Ordinance No. XX, Specific Plan 01-04, Amendment #2:
That the Planning Commission recommends approval of Ordinance No. XX, Specific Plan 01-04 Amendment #2 to the Town Council, a request to amend the adopted Specific Plan by Ordinance, to allow a gasoline station as an approved land use and to allow for additional signage for the gasoline station and convenience store.

Department Reports

6. Development Code Interpretation (DCI 02-26) — A request to waive Official Zoning Map requirement for Specific Plan at an 37.58 acre property located at the SW Corner of Joshua Lane and Warren Vista, also identified as APN: 0585-062-33

   Recommendation:
   That the Planning Commission finds that the request is consistent with the objectives and policies of the Town of Yucca Valley General Plan and Development Code, and interprets that the Specific Plan requirement for APN: 0585-062-33 does not apply until such time that a project requiring discretionary entitlement is filed for the property, allowing by-right development to proceed as allowed by the underlying zoning district.

7. Land Development Update

   Recommendation:
   That the Planning Commission receives and files the report.

Future Agenda Items

Public Comments

The Planning Commission takes this time to consider your comments on items of concern which are not on the agenda. When you are called to speak, please state your name and community of residence. Please limit your comments to 3 minutes or less. Inappropriate behavior which disrupts, disturbs, or otherwise impedes the orderly conduct of the meeting will result in forfeiture of your public comment privileges. The Planning Commission is prohibited by State law from taking action or discussing items not on the printed agenda.

Staff Reports and Comments

Commissioner Reports and Comments

James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

Announcements

Upcoming Meeting Schedule: The next regular meeting of the Yucca Valley Planning Commission will be held on Tuesday, April 28, 2026, at 6:00 PM in the Yucca Valley Community Center Yucca Room.

Adjournment

Town of Yucca Valley
Planning Commission Staff Report

To: Planning Commission

From: Janet Yochmowitz, Administrative Assistant III

Date: April 6, 2026

Meeting Date: April 14, 2026

Subject: Approve the meeting minutes for March 24, 2026, as prepared.

Recommendation:
That the Planning Commission approves the minutes for March 24, 2026, as prepared.

Prior Review:
There has been no prior review of this item.

Discussion:
None.

Alternatives
None.

Fiscal Impact:
None.

Attachments
1. PC Meeting Minutes - 3 24 2026 - Signed

Town of Yucca Valley
Planning Commission Meeting Minutes
March 24, 2026

Call to Order

Chair Vasconcelos called the meeting to order at 6:00 pm.

Roll Call

Present: James Henderson, Gerard Noonan, Clint Stoker, Mathew Thomas, Alejandro Vasconcelos

Absent:

Pledge of Allegiance

led by Commissioner Henderson.

Approval of Agenda

Motion:
Approve the meeting agenda as prepared.

Result: Passed (Yes 5, No 0, Abstained 0)
Mover: Commissioner Mathew Thomas
Seconder: Commissioner Clint Stoker
Ayes: James Henderson, Gerard Noonan, Clint Stoker, Mathew Thomas, Alejandro Vasconcelos

1. **Approve the meeting agenda as prepared.**

   Motion:
   Approve the meeting agenda as prepared.

   Result: (Yes 5, No 0, Abstained 0)
   Mover: Commissioner Mathew Thomas
   Seconder: Commissioner Clint Stoker
   Ayes: James Henderson, Gerard Noonan, Clint Stoker, Mathew Thomas, Alejandro Vasconcelos

Commission Reorganization

Chair Vasconcelos stated moving on to item 2, selection of planning commission chairperson and vice chairperson, nominee, and elect chairperson and vice chairperson. Recommendation is the planning commission move to appoint the selected commissioner to serve as the chairperson and vice chairperson of the planning commission for the next 12 months.

Commissioner Stoker stated I'll, I'll go ahead and make a motion if there's no discussion on it.

Commission Secretary Yochmowitz stated if you wanted me just to give this one spill on it, that--

Sure.

Commission Secretary Yochmowitz stated at the February 13th, 2018 meeting, the Planning Commission was adopted a resolution establishing a rotation of the chairperson and vice chairperson to take place in March of each year. This is done, obviously, on an annual basis, and they serve for 12 months.

Commissioner Stoker stated sounds good. Um, I would make a motion, uh, that Vice Chair Thomas, uh, serve for the next 12 months as our chairperson.

Motion:
Elect Vice Chair Thomas for the next 12 months as the Planning Commission Chairperson.

Result:	Passed (Yes 5, No 0, Abstained 0)
Mover:	Commissioner Clint Stoker
Seconder:	Commissioner Gerard Noonan
Ayes:	James Henderson, Gerard Noonan, Clint Stoker, Mathew Thomas, Alejandro Vasconcelos

2. **Selection of Planning Commission Chairperson and Vice Chairperson — Nominate and Elect Chairperson and Vice Chairperson**

   Commissioner Stoker stated and then I'll m-make one more if that's okay, um, that, uh, Commissioner, uh, Henderson, would you care to be the, uh, vice chairperson for the next 12 months?

   Commissioner Henderson stated I'd be honored.

   Commissioner Stoker stated ll right. I'll make that motion for Commissioner Thomas- or Commissioner, uh, Henderson—as the vice chair for the next 12 months.

   Commissioner Vasconcelos stated yes. We will take a short recess while we change seats, and then we'll be right back.

   Motion:
   Elect Commissioner Henderson as Vice Chair for the next 12 months.

Result:	(Yes 5, No 0, Abstained 0)
Mover:	Commissioner Clint Stoker
Seconder:	Commissioner Gerard Noonan
Ayes:	Clint Stoker, Alejandro Vasconcelos, Mathew Thomas, James Henderson, Gerard Noonan

Consent Agenda

Chair Thomas stated Okay, we'll call the meeting back to order. Um, first of all, I wanted to, uh, thank, uh, Chairman Vasconcelos for a really excellent year. You did a great job running the meetings. Really appreciate it. You did a great job.

Commissioner Vasconcelos stated thank you.

Chair Thomas stated all items listed on the consent calendar are considered to be routine matters or are considered formal documents covering previous Planning Commission instruction. The items listed on the consent calendar may be enacted by one motion and a second. There will be no separate discussion of the consent calendar items unless a member of the Planning Commission or Town Staff requests discussion on specific consent calendar items at the beginning of the meeting. Public requests to comment on consent calendar items should be filed with the Commission Secretary before the consent calendar is called. All right. Does anybody have any comment? Anybody from the public wish to comment on the consent calendar? None? Anybody online? Any commissioners have anything to recuse or anything like that? All right, then we look for a motion to approve.

3. **Approve the meeting minutes for January 13, 2026, as prepared.**

   Motion:
   That the Planning Commission approves the minutes for January 13, 2026, as prepared.

Result:	Passed (Yes 5, No 0, Abstained 0)
Mover:	Commissioner James Henderson
Seconder:	Commissioner Alejandro Vasconcelos
Ayes:	James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

4. **Approve the meeting minutes for February 24, 2026, as prepared.**

   Motion:
   That the Planning Commission approves the minutes for February 24, 2026, as prepared.

Result:	Passed (Yes 5, No 0, Abstained 0)
Mover:	Commissioner James Henderson
Seconder:	Commissioner Alejandro Vasconcelos
Ayes:	James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

5. **Native Plant Permit (NPP) 011-26 @ 59815 Security Drive**

   Motion:

That the Planning Commission receives and files the attached Desert Native Plant Specialist Report and approves the application for NPP 011-26, to remove nine (9) Mojave Yuccas based upon Section 9.07.130(C)(2), that the regulated desert native plants being removed are located within the identified project area for residential construction of a recreational pickleball court; and finding that all necessary submittal materials have been submitted as indicated in the Application Table and as contained within the staff report.

Result: (Yes 5, No 0, Abstained 0)
Mover: Commissioner James Henderson
Seconder: Commissioner Alejandro Vasconcelos
Ayes: James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

6. **Native Plant Permit (NPP) 017-26 @ 8946 Fortuna Avenue**

Motion:
That the Planning Commission receives and files the attached Desert Native Plant Specialist Report and approves the application for NPP 017-26, to remove nine (9) Mojave Yuccas based upon Section 9.07.130(C)(2), that the regulated desert native plants being removed are located within the identified project area for residential construction of an attached garage; and finding that all necessary submittal materials have been submitted as indicated in the Application Table and as contained within the staff report.

Result: Passed (Yes 5, No 0, Abstained 0)
Mover: Commissioner James Henderson
Seconder: Commissioner Alejandro Vasconcelos
Ayes: James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

7. **General Plan Annual Report 2025**

Motion:
That the Planning Commission receives and files the General Plan Annual Housing Element Progress Report.

Result: Passed (Yes 5, No 0, Abstained 0)
Mover: Commissioner James Henderson
Seconder: Commissioner Alejandro Vasconcelos
Ayes: James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

Public Hearings

8. **Environmental Assessment, EA 13-25; Variance, V 03-25, 8140 La Contenta Road. A requested variance from Town of Yucca Valley Development Code, Chapter 9.07.050, Table 2-4, to reduce the required side yard setback from 15' to 5' for an existing accessory structure located within the required 15' side yard setback at 8140 La Contenta Road (APN 0588-051-26), an approximately 1.82 acre parcel, located 225' south of the intersection of Joshua Drive and La Contenta Road.**

Chair Thomas stated yes. Okay. Then we're going to move to public hearings, item number 8. Environmental Assessment EA 13-25, variance V 03-25, 8140 La Contenta Road. A requested variance from town of Yucca Valley Development Code Chapter 9.07.050, Table 2-4, to reduce the required side yard setback from 15 feet to 5 feet for an existing accessory structure located within the fif--the required 15-foot set--side yard setback at 8140 La Contenta Road, APN 0588-051-26, and approximately 1.82 acre parcel located 225 feet south of the intersection of Joshua Drive and La Contenta Road. Okay. Staff.

Assistant Planner Willoughby stated, thank you, Chair and Commissioners. Uh, the recommendation is firstly, Environmental Assessment 13-25 that the Planning Commission finds the project is exempt from CEQA pursuant to Section 15303 E Class 3 new construction of small structures, as the proposed project is an accessory structure within a setback and Section 15305 A, minor alteration and land use limitations as the proposed project consists of a setback variance in an area with an average slope less than 20% that does not result in the creation of any new parcel. And secondly, for Variance 03-25, that the Planning Commission denies Variance 03-25 from the Town of Yaka Valley Development Code, chapter 9.07.0050 Table 2-4 to reduce the required side yard setback from 15 feet to 5 feet for an existing accessory structure located within the required 15-foot side yard setback at 8140 La Contenta Road, APN 058805126, based upon the information contained in the staff report and required findings.

Uh, for background on this property and what preceded this variance request, going back to 2016, a complaint was received in 2016 regarding non-permitted construction and operation of a non-permitted vacation rental, uh, with other noise issues reported under that same complaint. The current enforcement actions against the property continue from that 2016 case, including non-permitted construction and non-permitted operation of a vacation rental. The owner has taken down their vacation rental listing and reposted it multiple times over the years following code enforcement communication. The western display and gazebo were constructed on the property without benefit of permit in 2016 based on aerial s-satellite imagery. Uh, you can see in 2015 preceding, uh, the structure that we're talking about tonight. This is from March 2015. And then this is from July of 2016. You can see, uh, where I'm highlighting in red. This is the structure that encroaches into the, uh, north side, interior side yard setback. And then there is a smaller gazebo, um, down here. This-

uh, is the actual, um, structure, um, just seen from the outside, the exterior. It is a western display as I would best describe it. And for further background, um, we received the application on August 13, 2025, requesting the a-aforementioned variances. And on February 25th, a public hearing notice was published in the High Desert Star, which is attached to the staff report. And on February 27th, the hearing notice was mailed to the neighboring property owners within 300 feet of the subject property in accordance with our development code requirements.

For background on the code itself, uh, the property is in the RL zoning district, so subject to Section 9.07.0050 Table 2-4, that identified interior side yard setback is 15 feet. Uh, furthermore, Section 9.07.120, which regulates, uh, certain, uh, occurrences when a structure can encroach into a setback. It is not allowed to encroach, in this case, into the, um, interior side yard setback. There is no allowance for that under our code. The property is an approximately 1.82 acre parcel, um, located 225 feet south of the intersection of Joshua Drive and La Contenta Road. Uh, it is in a general plan designation of rural residential with a 2.5 acre minimum lot size and a corresponding zoning designation of rural living, RL 2.5. The surrounding properties from the north, south, and west, uh, are within the town boundaries and are under identical general plan and zoning classification of RR 2.5 and RL 2.5 respectively. The property to the west--or to the east, I apologize, is within the county. The county zoning for that eastern property is Rural Living, uh, one dwelling unit, uh, per 2.5 acre max.

The surrounding land uses for the property, um, to the north, there is a single-family dwelling. Uh, to the south is vacant. To the east is vacant, uh, county land-- uh, so-- apologize-- uh, land within the county's jurisdiction. And to the west is a single-family dwelling. Uh, for background on the size and shape of properties in the area, um, this property is highlighted, uh, here. This is from the assessor's tax parcel map, so I apologize. It's not the most legible kind of map that we could be looking at, but just for a reference to the, um, size and acreage of some of these parcels. Uh, the properties in the vicinity range from about 1.25 acres to five acres. Uh, the parcel size is identified on the assessor map as 1.82 acres, and the depths in the vicinity range from 331 feet to 662 feet. The widths in the vicinity range from 123 feet to 329 feet, and the property has a width of approximately 123 feet and a depth of 662. So it is nonconforming as to minimum lot size and maximum lot dimensions, uh, slightly, um, under that 2.5 and slightly over that, uh, width to depth ratio.

This is the site plan provided by the applicant as part of their, uh, building submittal package, identifying the structure, uh, with the, um, setbacks illustrated here with those dashed lines. Along with that, they also illustrate a, uh, path of drainage, which will be further addressed, um, throughout this presentation. And these are elevations provided by the applicant, um, seeing once again the structure that you saw some photos of, uh, earlier, which is in existence. Uh, variance findings before we get into those, uh, I just wanna note provisions for variances set forth in the Town's

development code are established to ensure that any property because of special circumstances such as size, shape, topography, location, or surrounding shall be accorded privileges commonly enjoyed by other properties in the same vicinity pursuant to California Government Code Section 65906. And the required variance findings are addressed by the applicant and staff in the following slides. Um, I will address the variance findings, um, and responses from staff and the applicant's responses are included in your packet presentation and the staff report.

So variance finding number one. Will the granting of this variance be detrimental to other properties or land uses in the area or substantially interfere with the present or future ability to use solar energy systems? Staff responses, no, the variance is not anticipated to be detrimental to other properties or land uses in the area or substantially to interfere with the present or future ability to use solar energy systems. Variance finding number two, staff response. Um, well, first, let me read it. Are there exceptional or extraordinary circumstances or conditions applicable to the property or to the intended use that do not apply to other properties in the same district or vicinity? Our staff response is, "There are no exceptional or extraordinary circumstances applicable to the property or to the intended use that do not apply to other properties in the same district or vicinity. Although the property is non-confor-- non-conforming as to size and lot dimensions, similar to others in the vicinity, there is adequate space to accommodate proposed accessory structures without encroaching into drainage courses or required setbacks on the subject property."

Variance finding number three. Will the strict application of land use district regulations deprive such property of privileges enjoyed by other properties in the same vicinity or in the same land use district? Staff response is, no, there is adequate space to accommodate proposed accessory structures without encroaching into the natural drainage course or runoff channel identified by the applicant's exhibit or required setbacks on the subject property. A minor portion of the rear of the property is traversed by a portion of the La Contenta Wash, which is identified on the attached, uh, master plan of drainage and also identified in the Town's General Plan Open Space and Conservation Element exhibit, which continues north and south of the property. Minor runoff is not an unusual property condition within the Rural Living zoning district, nor does it preclude development. And building plans and engineering can address required runoff retention in accordance with town standards. Variance finding number four. Is the variance request in conformance with the objectives, policies, and programs specified in the general plan and any applicable plan? Staff responds, yes, the land use is consistent with the general plan. A wood-sided accessory building is not anticipated to affect the objectives, policies, or programs specified in the general plan.

In the following slides, um, are some statements provided by the applicant and exhibits and photos also provided by the applicant. So I will briefly walk through

those, but they are attached to your staff report and included in the presentation that's printed before you. Uh, this is the applicant statement that they've provided to supplement, um, their application materials. These are exhibits and photos that the applicant has provided. Uh, I'll just specifically highlight Exhibit Number 2. Uh, what they're trying to show here is, once again, as stated, the path of runoff that they believe, uh, precludes them from moving the structure outside of the setback. These are other photos provided by the applicant, um, identifying the ground conditions and property, um, setbacks and taking a few measurements from the structure, uh, to the property line, I believe, in this photo. Staff has also provided some, uh, ph-photos to the staff report just for the commission, um, to view, uh, the surrounding properties and neighborhood context around the site. So these are just for context. Um, they were provided by Jared, um, so I wouldn't be able to give you specifics on exactly where these photos were taken, but they were taken throughout the neighborhood.

So as you can see, uh, these similar rural living properties are off of dirt roads, um, similar development, similar context. So, once again, uh, the recommendation is that the Planning Commission find the project exempt from CEQA and that the Planning Commission denies the variance, uh, from the Town of Yucca Valley Development Code to reduce the required yard-- side yard setback from 15 feet to 5 feet for an existing accessory structure located within that 15-foot side yard setback at 8140 La Contenta based upon the information contained in the staff report and required findings. And staff is available for questions following the public hearing.

Chair Thomas stated okay. Thank you, Evan, um, I'll open the hearing pu-public hearing comment on this item. Anybody in the audience wish to speak on this item? None? Oh, we have one?

Lori Portillo, applicant, stated good evening. My name is Lori Portillo. I've been coming to the Morongo Basin since before I can remember because my grandfather homesteaded in Morongo in the early '40s. I've lived on La Contenta Road for the past 45 years. I have bought rental houses in the area over the past four decades. It was my dream job to have rentals that I could go to easily to do repairs, and it was going to be in my dream retirement. The bad roads and water hauling made it difficult to attract and keep dependable renters. In 2010, I went to the Town of Yucca Valley and asked what I needed to do to get into short-term rentals. Someone looking for a two-day desert experience were happy to put up with the roads in exchange for the views. I was told there were no differences, no need to apply for anything. That started changing and has not stopped. I've tried to keep up with the changes the Town has made. When you told me I could no longer do short-term rentals, I switched my business to 31-plus day rentals. When I read about having my--having been doing business without a permit for vacation rentals--I wanted to clarify that I know nothing about websites or computers. I've had to depend on others to change

things when needed. And at one point, my web designer had changed everything but one last reference to vacation on my website. He told me he would figure it out and change it on the weekend. He did it for five weeks because our website is outdated, and it was hard for him to figure out. Everywhere on the website said long-term rentals and 31-plus minimum day stay, but that one-word vacation caused me to have more fines. I'm not a corporate entity with professional websites. I'm an old woman that has tried to do the best I can with what I've got. Between the county and the town, I've paid over $30,000 in fines to make up for my mistakes. My rentals are long-term again. There are more people in the area who love being out in the wild desert but close to town. They have not been swayed by a road that neither the town or the county has ever maintained. I've worked on the ro-road with a bobcat and more often with a shovel. The Old Town storefront was built as an art project by a friend and I to break up the scraped base ground at 8140 La Contenta. It was a lot of work and I take great pride in it. I did not realize there were 50-foot assessments--easements on a shared property line in the middle of a five-acre parcel. I thought 15-foot easements were required where a road might need to be run and Joshua Lane is 200 feet to the north. To move the building 10 feet to the south would have put it directly in the path of the water runoff soil. Directly. It would be running under the building from east to west, and it would block the view of the sunset, completely taking the building out of the frame it is in, which is part of the art piece. In conclusion, I'm asking the town to grant the variance which would allow this accessory building to stay where it is, where it was meant to be. Thank you.

Chair Thomas stated, thank you. Anybody else wishing to comment on this item? Anybody online? No? Close public hearing comment. Go to my commissioners. We'll start on the right. Commissioner Vasconcelos.

Commissioner Vasconcelos stated, thank you. So I appreciate that, you know, you've tried to be a part of this community and, and, and improve upon what's there and, and try to make a living for yourself in the--in this--in this area. The way I feel like of this is that there's-- these variances are put in place for extreme circumstances for us to grant. And, you know, looking at this building and looking at the unit the way it was, uh, installed at that time, I think if, you know, the proper questions would've been asked at that time for permitting or whatever and, and done some research would've shown that there, there are setbacks in this particular property that would've required you to maybe adjust the way that this, um, structure would've been built. Um, in regards to, like, the drainage, you know, according to the staff findings and whatnot, there-- the, the flow of the water is showing it in a certain way that, uh, you know, if, if--i-if that information is correct, like--uh, so--s--uh, Evan, so the d--the drainage report that they--uh, that you provided, it shows that there's no real viable flow that should be interfering with the, the structures in--on that property. Is that correct?

Assistant Planner Willoughby stated so in consultation with the town engineer who regularly reviews drainage issues and, um, single-family residential planning checks, this is just local, um, water flow. Um, there's nothing unusual about that.

Commissioner Vasconcelos stated yeah, there's no, like--it's not like a, a drainage flow or, or, or a 100-year flood stream that could pop up or anywhere just where--as regular drainage that every, every resident has in--within the community from runoff?

Assistant Planner Willoughby stated correct.

Commissioner Vasconcelos stated, yeah. So, um, for me personally, to be okay with a variance, it's like it, it would be setting a precedent for everybody to-- if we, uh, granted this to allow everyone else to--you know, if they went a-against w--the proper way of building things, and then all of a sudden, years later, 10 years down the road, they realize that they have an issue and now we need a grandfather in their construction that they didn't permit in, in the beginning. I just feel like that could open up a big can of worms for everybody if we were to, uh, uh, grant this, uh, variance.

Chair Thomas stated okay. Is that good?

Commissioner Vasconcelos stated that's kinda what I got so for.

Chair Thomas stated Commissioner Stoker.

Commissioner Stoker stated yeah. I-I, I, I feel like your story is not a s--is not a story that- uh, it's we hear all the time, to be honest. People do a lot of things without benefit of permit. And it's, it's frustrating. It's--I, I can understand your frustration. You've had something there for 10 years. You didn't think it was gonna be a big deal, um, but here we are. And it's a--it's a question that gets brought to, uh, me as a builder in, in my day job. Often people wanna build something and the first thing I ask them is, "Have you talked to the ooh--the town or the county or the City of Palm Springs or any-anybody to find out what you can and can't do?" And I think that's a im-important thing, um, for everyone. And sadly, it's something that I run into so often with people even buying homes because things have been done with-without benefit of permit for years and years and years. And it's, it's not something that was--uh, that I don't think is ever gonna go away. Even now, I have friends who I go to their house and they're building something in their backyard and I say, "Boy, I wish you, uh, would pause for a minute and go check and see if that's okay there, um, before you get too far along." And that's--and that's the sad thing about where you're at is you are so far along that it's--you know, moving it would be, uh, difficult.

Um, uh, uh, I mean, f-for me, your, your path would be to work with your neighbor, to be fair, and tell them, "I'd like to do a lot line adjustment and buy, buy some land from them and adjust the lot line. I-if, if it's important to you to keep it and it's something you love, then the path forward that's legal would be to work f--towards a lot line adjustment to--um, to buy a chunk of dirt from your neighbor to adjust that line. Um, and, and that's a process that you can work through with the town to get accomplished. Um, a--uh, the i--the--you know, and I don't f--well, I-I'm not gonna look at other planning things to be g-- related to that, but-- 'cause that's a whole other can of worms. Um, and, and that's the, the, the biggest lesson that I think all of the public, anyone that's ever been to a planning commission meeting, learns is it's always easier to ask questions upfront and figure out more information prior to building or digging or, or getting involved in any sort of construction, um, because the, the rules are nuanced. What, what might even apply to you might not even apply to your neighbor. And that's where people can get kind of in, in a tough, tough position. Um, I, I would agree with Commissioner Vasconcelos that, uh, the, the rules for a variance are very, very, very finite. Um, and w-- as a-- as a general rule, um, we look at some, some very stiff, um, rationale to be able to grant those.

Um, I, I went and drove by your house, actually. I don't know if you saw me in my white Tundra, um, but I went and walked kinda through the, the vacant desert on the-- um, the north of you and kind of looked at it from, from all sides that I could see. And, um, I, I, I just feel like, uh, i-if you would've known, you probably would've moved it in a little bit further and adjusted your swales and had that nuisance water continuing on towards the wash at the end of the property. 'Cause it looks like there is-- that's where kinda the real water runs is at the end of your property there. Um, so I, I don't know. I, I just don't-- I don't see variance as your path forward. I-- if, if it's something you love, I think a lot line adjustment will probably be, uh, more appropriate.

Chair Thomas stated yeah. Vice Chair Henderson.

Vice Chair Henderson stated, uh, thank you. Um, Ms. Portillo, I wanna thank you for coming out and speaking and, and sharing your thoughts on this. I know how important it is. One thing that stuck out to me was you have a really unique and almost, I would say, cool lot.
Chair Thomas stated, yeah.

Vice Chair Henderson stated, and I know this has been going on from the initial time of complaint until now, almost 10 years. And if this doesn't go your way tonight, I hope that you'll get in touch with staff and, and get things corrected the right way because it seems to me it would be a great short-term vacation rental. Very unique. So, I, I hope that happens. But as some of my fellow colleagues have said, variances, you know, th-- to get granted are usually very extraordinary, exceptional

circumstances, typically with a lot. And when staff shares with us, there's adequate space to accommodate proposed accessory structures without encroaching into drainage courses or the required setbacks on the subject property, that's certainly a concern. My question to staff is, so if this variance is denied, what happens to that structure on the property?

Assistant Planner Willoughby stated, the options available to the property owner are to move the structure, uh, through the proper building permit process, to demo the structure, um, or any other identified solution such as a potential lot line adjustment to address that setback issue. But the building permits would need to be secured in that case too.

Vice Chair Henderson stated, yeah, that was a great suggestion by Commissioner Stoker. Um, in regards to-- um, this has been going on like nine years. Has it just been-- h-h-has this specific issue been going on nine years or is that just recent about the building?

Assistant Planner Willoughby stated to my understanding and speaking with code enforcement staff on your same question, um, our host compliance software identifies when listings are posted for short-term vacation rental. So this one just flagged, um, that issue, which caused code staff to revisit, um, the code case that had not been closed on the property f-- since 2016.

Vice Chair Henderson stated okay. Thank you. Uh, nothing further from me.

Chair Thomas stated Commissioner Noonan.

Commissioner Noonan stated, thank you. Um, a quick question. So presently, the structure is being used as long-term housing. And is that-- is that what?

Chair Thomas stated she said the house is not the building.

Commissioner Noonan stated okay. So the building in question is not being used to house anybody or as any kind of housing. Okay. Um, um, I have nothing different than the rest of my, uh, fellow commissioners to say about that, so.

Commissioner Stoker asked, is the home itself at the address being used as a short-term rental currently?

Assistant Planner Willoughby stated it has been in the past. Um, I believe the most current information from code enforcement is the listing has been taken down again. Um, and the applicant indicated tonight, um, I believe they are intending to use it or are using it for long-term housing. I think that's what I heard.

Chair Thomas stated, yeah, I'm gonna-- I'm gonna chime in just quickly and agree with my fellow commissioners on this. And, uh, I was kind of going along the same lines as Commissioner Stoker. I do commercial real estate. I've seen this stuff around town a lot. I'm actually working on a couple of buildings right now that have encroached on the lot lines that have been there for 30 or 40 years. I mean, literally. So probably the best suggestion is exactly what Commissioner Stoker said was try to go-- uh, get with your neighbor and do a lot line adjustment. That would save you some time and-- not necessarily time, but a little bit of money and stuff if you had to move the structure or, or, uh, tear it down. So I'm in agreement on this. Um, so we'll look for a motion on this one. Anybody?

Commissioner Stoker stated I-I'll make a motion, um, to find the project exempt from CEQA item, um, Environmental Assessment 13-25 and deny variant 03-25.

Motion:

Environmental Assessment 13-25:

That the Planning Commission finds the project is exempt from CEQA pursuant to Section 15303(e), Class 3 (New Construction of Small Structures), as the proposed project is an accessory structure within a setback and Section 15305(a) Minor Alterations in Land Use Limitations as the proposed project consists of a setback variance in an area with an average slope less than 20% that does not result in the creation of any new parcel.

Variance 03-25:

That the Planning Commission denies Variance, V 02-25, from the Town of Yucca Valley Development Code, Chapter 9.07.050, Table 2-4, to reduce the required side yard setback from 15' to 5' for an existing accessory structure located within the required 15' side yard setback at 8140 La Contenta Road (APN 0588-051-26), based upon the information contained in the staff report and required findings.

Result: (Yes 5, No 0, Abstained 0)
Mover: Commissioner Clint Stoker
Seconder: Commissioner James Henderson
Ayes: James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

9. **Environmental Assessment, EA 18-23; Site Plan Review, SPR 07-23, Sun Mesa Mini Storage. A request to construct and operate an 89,700 square foot self-storage facility with manager's unit, landscaping, and off-site street improvements. The project site is located at 4815 Newton Lane and is also identified as APN: 0597-111-67.**

Chair Thomas stated, okay. Uh, we're gonna move to item 9, but item 9 is going to be

tabled. We're gonna be moving that, uh, on, but I'd like to-- oh, I'm gonna open it to public comment first. And, uh, is there anybody on item 9 that wishes to speak?

Assistant Planner Willoughby stated [inaudible]. Uh, I will start with the recommendation for this item. For Environmental Assessment, EA 18-23 and Site Plan Review, SPR 07-23 for Sun Mesa Mini Storage, the recommended action tonight is to open the public hearing and continue the item to the Planning Commission's next meeting of April 14, 2026.

Deputy Town Manager Stueckle stated, and as part of that process, you can take any public comment or public hearing comments that are here or present this evening, either in the room or online, and then the public hearing can be continued.

Chair Thomas stated yeah. So on item number 9, is there anybody that wishes to comment? Yes, sir.

Brandon Fugate, public comment, stated, hi, uh, my name is Brandon Fugate. I live on Terry Lane in Yucca Valley, pretty close to the proposed site. And I'd like to speak in opposition to the storage facility. Uh, first and foremost, because it's a redundant business. We don't need it. We have multiple similar businesses in town that have ample vacancies. I know that's because I called them. A-and we also have similar businesses just outside of town and surrounding areas. Secondly, it's destructive. I've read the report. It will destroy nearly 100 mature western Joshua trees in addition to disturbing what is now undisturbed wildlife habitat. Third, we have very, very suitable locations in the heart of town, some that are already developed, some that are underutilized. Um, and I think that given its location kind of on the outskirts, a more undeveloped part of town, this to me feels very much like needless sprawl. Um, there are some eyesores in town, some vacant lots of considerable size that would make far more sense for this project. Thank you.

Chair Thomas stated, thank you.

Commissioner Stoker stated, excuse me, sir. Where did you say your home was?

Brandon Fugate, public speaker, stated I'm on Terry Lane. So just off--And----of Buena Vista.

Commissioner Stoker stated oh. And what was-- what was-- what was your name? I'm sorry.

Brandon Fugate, public speaker, stated I'm Brandon Fugate.

Commissioner Stoker stated Brandon Fugate. I'm just trying to find the spot on the

map so I can see where it's at relation.

Brandon Fugate, public speaker, stated little dirt road.

Commissioner Stoker stated, and is it-- is the home owned by-- owned by you right now or are you a renter?

Brandon Fugate, public speaker stated no, I'm a renter.

Commissioner Stoker stated owned by Matt Adams, maybe?

Brandon Fugate, public speaker, stated uh, Matt Adams is my next door neighbor.

Commissioner Stoker stated okay. All right. Sounds good. I-I'm just trying to find out where it's at in--

Brandon Fugate, public speaker, stated yeah. Yeah.

Commissioner Stoker stated--relation just for my--

[crosstalk]--

Commissioner Stoker stated,--own sake. Thank you.

Brandon Fugate, public speaker stated absolutely.

Chair Thomas stated okay. Uh, anybody else in the public wanna comment on this item? Anybody online? Okay, let's get a motion to continue then.

Commissioner Stoker stated, I'll make a motion to continue the public hearing for, uh, Environmental Assessment, EA 1823, and Site Plan Review, SPR07-23, to our next meeting of April 14, 2026.

Motion:
To continue the public hearing for Environmental Assessment, EA 18-23, and Site Plan Review, SPR 07-23, to our next meeting of April 14, 2026.
Environmental Assessment 18-23:
That the Planning Commission adopts the Resolution, the Mitigated Negative Declaration and Mitigation Monitoring Report for Environmental Assessment 18-23.

Site Plan Review 07-23
That the Planning Commission approves SPR 07-23, a request to construct and operate an 89,700 square foot self-storage facility with manager's unit, landscaping,

and off-site street improvements.

Result:	(Yes 5, No 0, Abstained 0)
Mover:	Commissioner Clint Stoker
Seconder:	Commissioner Gerard Noonan
Ayes:	James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

Department Reports

10. Design Review (EC) 02-26 @ 7021 Airway Avenue

Chair Thomas stated okay. Moving to department reports, item number 10 design review EC 02-26 at 7021 Airway Avenue.

Assistant Planner Willoughby stated, thank you, chair and commissioners. Uh, just real quick. This is on page 1,621 of your agenda packet. So Design Review EC 02-26 at 7021 Airway Avenue. The recommendation is that the Planning Commission approves the proposed fence material, split rail would propose fence, um, similar to illustration number 49 of the commercial design guidelines and proposed corral gate for Design Review EC 02-26 at 7021 Airway Avenue based upon the commercial design guidelines and the information contained within the staff report and recommended condition of approval. So for background, the town received a request from the property owner at 7021 Airway. Uh, it's a 1.41-- 1.42 acre property zoned General Commercial to install a corral gate and barbed wire fence, wire mesh, or split rail wood post fence along the property lines to deter vehicle access across the vacant, uh, northeast portion of the property, uh, which you can see, uh, highlighted here. The fence is, uh, proposed not to exceed four feet in height. These are some of the alternative photos provided by the applicant. Uh, and you can see their alternative number one, which I believe was their preferred alternative, uh, is barbed wire. Alternative number two is wire mesh and alternative number three is a split rail wood post fence. In either alternative, um, they propose that the gate be a corral gate.

This is a rendering provided by the applicant, uh, to illustrate exactly what that might look like. You can see the surrounding, um, streets, uh, the commercial developed, uh, tenant space around the property. And these are some more photos just from Google Street View, uh, showing the church, which is also, uh, part of that property on the developed south portion. Our commercial design guidelines do provide some guidance on, uh, walls and fences. So it notes, "Uh, they provide effective noise buffering and visual screening effects as well as enhanced security, which is the intent of this applicant to secure their property from vehicles." Uh, it also notes, "Design-wise, walls and fence materials shall consist of wood, stone, or masonry construction.

Uh, wall and fence colors shall consist of desert tones such as brown, tan, beige, sand, or other architectural schemes that may complement, uh, the nearest buildings and structures. And walls and fences should serve as unifying design elements along public streets and pedestrian corridors. Should be consistent material design and height in such locations." These are examples provided by the commercial design guidelines. And the example cited by the applicant is in our commercial design guidelines illustration number 49, which is a wood post, uh, fence.

Uh, further, just to deal with the particularities of the property, um, it is staff's recommendation to add a condition of approval, um, that the fencing may not project into the recorded San Bernardino County Flood Control District Easement, uh, with one modification from the staff report to note unless approved by San Bernadino County Flood Control District. Um, you've been provided a copy of the applicant's email following the publication of this staff report, uh, that they intend to address that by, uh, getting a proper encroachment permit from the Flood Control District if possible. So, once again, the recommendation is that the Planning Commission approves the proposed fence material for wood post fence, uh, similar to illustration number 49 of the commercial design guidelines and the proposed corral gate for EC 02-26 at 7021 Airway Avenue, based upon the commercial design guidelines and the information contained within the staff report and recommended condition of approval. And staff is available to answer questions following public comment.

Chair Thomas stated, thank you, Evan. Okay. It-- I-- doesn't look like there's anybody in the audience that wants to make a comment on item 10. Anybody online? No. Okay, we'll go to the left now. Commissioner N-Noonan.

Commissioner Noonan stated um, I'm-- I know this property and I can understand specifically why, um, the owner of that property wants to do this. So I think I'm all for allowing them to fence that area for vehicles and approve the material that they've submitted.

Chair Thomas stated, thank you. Commissioner--Vice Chair Henderson.

Vice Chair Henderson stated, yeah. I mean, I've lived here a long time. I didn't even realize that, that that was part of the church property. Um, I hope and I-- uh, like Commissioner Noonan said, I, I understand why they would put it up. I just hope that that material is good enough and strong enough to withstand what will likely be people trying to tear it down. That's the only thing. You've seen it over and over where they can just slide the wood post out and now they go right through it. So I hope the material is good.

Chair Thomas stated Commissioner Stoker.

Commissioner Stoker stated, yeah, I don't, uh, see a problem with it. I d-- I do question the ultimate use for the-- that part of that parcel. Um, I, I just don't-- I don't know how many parking spaces are on their concrete area for the assembly use that they have. Um, back when this was a heavily attended church when I was a kid, like, that dirt lot was full of cars every Sunday. Um, so I would imagine that was part of their parking plan for that building. Um, I would question whether-- if there's, uh, 20 feet left over, give or take out of the 39 and a half feet, not counting the 20-foot easement. If that driveway gate would be large enough to have parking in that area if it needed to be there, um, to accommodate that building. Um, I think routinely that entire dirt lot was full and then people were parking in adjacent parking lots that don't necessarily belong to that parcel, uh, behind the bank and other places. Um, so I, I just question what the ingress/egress would be of that parcel since there's only one, uh, gate going in and out. Um, and then that there's a block wall in between lots 64 and 65 in that overarching parcel. Um, my other question is, is-- a-and it looks like on the rendering that the proposed fence-- h-how close is that to the-- to the right-of-way? It-- I don't see any-- is it-- is it on the right-of-way? Does it-- is it a p-- does it go all the way to the lot line? I'm just curious what the-- 'cause it doesn't look like it goes to the building setback. It's something different.

Assistant Planner Willoughby stated uh, to address your question, um, it may be appropriate to add a condition to clarify for the applicant, uh, to verify the location of right-of-way and ensure the fence is not located within dedicated right-of-way areas. There has been-- and to clarify the use, uh, there has been no conversation with staff about intended use of the church or this, uh, adjoining vacant area that was previously used as parking, as you noted.

Commissioner Stoker stated, so I mean, I, I just wanna make sure that we're not approving something that's permanent, that, in essence, ends up becoming temporary once a use for the building, um, you know, gets made and, and what that use would be, whether it would necessitate any sort of change, change of use or at least clarification of what the parking requirements for the use as it was if there's enough spaces for that. Um, uh, uh, short of that, I, I also agree with, uh, Commissioner Henderson that I think no matter what type of fence is put in, um, whether it's, uh, wire mesh or split rail or barbed wire, it's going to get abused by people that have historically used it. I think, um, nobody likes change. And it's, it's a kind of an uphill battle, I think, when so many people have been driving through that lot for so long. I, I can understand the applicant, but I also foresee him making many repairs, um, regardless. I, I th-- I, I think I would probably have leaned against barbed wire, I think, for public safety considerations--yeah, probably. --with kids running around in that-- the whole neighborhood or--

Chair Thomas stated yeah.

Commissioner Stoker stated--riding bikes near there and you fall into barbed wire. That's, that's no fun.

Commissioner Vasconcelos stated yeah, bus stop.

Commissioner Stoker stated, Airway and aviation there. So, um, I-I'm o-- I'm okay with the split rail, uh, with the caveats that it'd be-- it'd be good to figure out what their-- what their intentions are and whether that lot has to be part of their intentions for parking.

Chair Thomas stated Commissioner Vasconcelos.

Commissioner Vasconcelos stated yeah. Uh, I, uh, too have lived here a long time and been through that area and could admit that I've probably driven through that dirt lot a few times on my way to Von's. But, uh, I do understand the concern and wouldn't-- uh, you know, wouldn't want, you know, liability of someone-- something happening on my property, constantly driving through that area.

Chair Thomas stated yeah.

Commissioner Vasconcelos stated and so I do see the need for the fence. Uh, I too have concerns about the material. I mean, just our own experiences, Commissioner Stoker and I with, like, the, the park where they, they-- uh, over there on-- uh, on Little League Drive where they put some rocks up to try to deter people from driving through that area. And we ended up having to put-- Alex ended up having to put a sea of rocks over there, not just a couple of rocks to stop them from driving through that area. So, uh, I d-- I w-- I hope that when-- with their plans that they're planning to install this fence, not right on-- within, within their property and not within the right of way. You know, that's the biggest concern. I think a lot of people just assume that they can pu-put their fence all the way up to, let's say, the pavement or whatever. And they really should kn-know that they need to be within their own property to b-- to be installing those fences. Other than that, I, I don't have a problem with it. I mean, Commissioner Stoker did bring up some good cons-- some considerations regarding the use of that lot for future use of, of the parking st-structures. And also with the ingress/egress, or just the access, one point of access from there, it would probably-- beneficial if they had more than one gate into that, that area. But with that, I, um--

Chair Thomas stated okay.

Commissioner Vasconcelos stated--feel good.

Chair Thomas stated yeah. Uh, yeah. I, I concur with the commissioners. Yeah, I was looking at this thing and thinking that, you know, this may be an insurance, uh, push, you know, from their insurance company saying, "Hey, you know, you got people driving across this lot all the time. You got-- exposing yourself to big liability." And I'm thinking that the split rail is probably the most cost-effective thing they could put up-- it's attractive. --and most attractive. Yeah. 'Cause I agree barbed wire would be awful and-- but most wood stuff doesn't-- uh, doesn't last up here, so they're probably gonna be doing a lot of repairs. But I have a feeling it's probably just to keep their insurance company happy. Uh, wi-- so with that, I'm, I'm good with it as well too. So who wa-- anybody wanna make a motion on this?

Commissioner Vasconcelos stated I'll make a motion to approve design review EC 02-26 at 7021 Airway Avenue.

[crosstalk] With additional-- with the additional stuff from staff [crosstalk].

Chair Thomas stated condition is to the right of way [crosstalk]--

Commissioner Vasconcelos stated yeah, with the-- we-- and with, uh, including the, the flood channel, making sure if they-- if they-- gosh, how am I gonna say this? I'm not sure--

Assistant Planner Willoughby stated uh, uh, I can address that. Um, so to address that, uh, fencing may not project into the recorded San Bernardino County Flood Control District easement without San Bernardino County Flood Control District permit and may not project into dedicated right-of-way.

Motion:
That the Planning Commission approves the proposed fence material, Split Rail Wood Post Fence - Illustration #49 of the Commercial Design Guidelines and proposed corral gate, for Design Review (EC) 02-26 at 7021 Airway Avenue, based upon the Commercial Design Guidelines and the information contained within the staff report and recommended conditions of approval.

Result:	(Yes 5, No 0, Abstained 0)
Mover:	Commissioner Alejandro Vasconcelos
Seconder:	Commissioner James Henderson
Ayes:	James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

11. Development Code Interpretation (DCI) 01-26 — Architectural Compatibility of Cargo/Shipping Containers in Residential Zoning Districts

Chair Thomas stated okay. We move to, uh, item number 11, Development Code

Interpretation DCI 01-26 architectural compatibility of cargo shipping containers in residential zoning districts. Staff.

Assistant Planner Willoughby stated, thank you, Chair and Commission. Um, this is Development Code Interpretation, DCI 01-26, architectural compatibility of cargo/shipping containers in residential zoning districts. The recommendation is that the Planning Commission reviews Chapter 9.07, Residential and Hillside Reserve Districts, Section 9.07.060C, and adopts resolution number PC 26-03 attached to the staff report. Uh, the Planning Commission previously reviewed, uh, this item at the latest meeting of, uh, February 27th, 2026, uh, requested some additional information from staff, including examples of other policies from other jurisdictions, regulating cargo or shipping containers-- and other shipping containers that have been permitted in town attached to this updated staff report. Uh, this is, uh, what we went over at our previous meeting. Um, very briefly, um, our development code allows cargo or si-- shipping containers to exist on residential properties, uh, without architectural treatment only on properties that are 2.5 acres or greater. UH, with properties that are lower than 2.5 acres, they are subject to being on a permanent foundation and be architecturally treated so as not to appear as a cargo or shipping container.

So, staff jurisdic-- staff research of other jurisdictions identified, uh, that where they are allowed as permanent residential accessory structures, architectural treatment and/or screening are typically required. Um, the codes I'll go through in the following slides do cite a variety of approaches to ensuring that compatibility with the primary residents or surroundings, uh, including some of the following examples, such as various sidings, whether that's wood, stucco, masonry, or decorative sighting. Um, full exterior skins, uh, or enclosures or stick-built enclosures. Uh, pitched roofs, matching paint or compatible color schemes. Matching trim details. This is all matching with the primary residence, of course. Uh, matching roof style, landscape screening, or opaque fencing as another screening element. Um, Town of Apple Valley is one jurisdiction that does allow it. Um, highlighted in yellow and in bold, their criteria for architectural treatment is covered or skinned with siding materials, wood, stucco, or masonry, similar to their primary residence, and the design is compatible with the primary residence. City of Twentynine Palms, um, identifies a few different criteria. So screened from view for many public rights-of-way or adjacent residential properties by residential structures, landforms, or physical features of the lot, landscaping, or opaque fencing of up to eight feet in height with any visible remaining exterior portion of the container painted in a manner compatible with the principal residence on site. Uh, on-site stick-built skin and eaves, which are architecturally consistent with the primary residence on site. And, uh, containers shall be maintained in reasonable aesthetic condition at all times as determined by, um, their director.

City of Escondido, uh, has similar, uh, to the previous two, screened from public view by fencing, landscaping, terrain, buildings, exterior architectural enhancements to the container, such as decorative siding, pitch roof, etc., and/or, uh, painted a non-reflective neutral color that is compatible with the primary structure or to blend in with the surrounding environment. City of Murrieta, which we also have some picture examples attached, uh, their criteria is to match the main residential structure in terms of exterior colors, trim, on-- and roofing style. Um, furthermore, over two acres or more on the parcel size, the modifications shall be limited to the paint color of the exterior in terms of matching the main residential structure and landscape screening method shall be provided on site for portions of the container visible from the public right-of-way to the satisfaction of the development services director or their, their designee. These are some examples that the city of Murrieta provides in their memo on this specific topic. So you, uh, can see the top example. They've added some, uh, architectural enhancements, some patio, um, some additional roof elements to the container, and, um, just a decorative feature next to it to further screen or obscure the fact that it is indeed a container.

The one to the bottom is a little bit more unique. It looks somewhat like a spa or sauna someone might, might, uh, order. Um, but that does seem to make it appear, um, that it's not a shipping container at first sight. Uh, this is one example that we were able to identify from prior years permitting. Um, this is on a residential property in town. Um, the architectural treatment that they are making-- and I don't think they've completely finished their building permit process. There may be additional elements that they're adding here. But you can see that they have added basically a, a faux roof line, um, to make this container appear, at least from, uh, this elevation that we took it, uh, to not look like a container at first sight.

Two containers.

Now, the, uh, resolution, which is a draft resolution attached, um, provides some potential clarity that the Planning Commission may, may give us. Um, the resolution in part states that the Planning Commission does hereby declare that a cargo or shipping container on a residential property containing less than 2.5 acres shall be on a permanent foundation and architecturally treated so as not to appear as a storage container by providing a minimum of three of the architectural treatments listed below, each of a different type, and that the Planning Commission may require additional architectural treatments as necessary to ensure consistency with town standards. So those examples provided by the proposed resolution are residential exterior cladding, such as stucco, wood siding, or masonry veneer, trim elements such as corner boards, fascia, soffits, um, fi-- pitch roof with complementary roofing materials, extended eaves or parapets, uh, simulated or faux non-operable residential style windows, decorative facade elements such as awnings and shutters, uh, complementary paint and color scheme, and landscape screening integrated with the

structure. So the recommendation is that the Planning Commission reviews, uh, Chapter 9.07, Section 9.07.0060C adopts the proposed draft resolution number PC 26-03 attached to the staff report. And staff is available for questions following public comment.

Chair Thomas stated, thank you. Uh, obviously, no one else in the public that wants to comment on this, but we'll look online. Nothing there. Okay, we'll start back on my right to Commissioner Vasconcelos.

Commissioner Vasconcelos stated, thank you, staff, for that detailed report. Like we asked you to bring you, you brought back some good information for us to discuss and to think about. Um, I do like the resolution that you've kind of drafted up here regarding the three different elements. Um, the siding and making sure, uh, it is, you know, similar type of materials that can conform with, you know, the existing exterior of the building. Uh, I liked the, the comment from one of the cities. They were saying that, you know, if it was more than two acres, it wasn't required to do a specific-- you know, as many kind of details because, you know, the, the pro-property is, is larger.

[inaudible], yeah.

Commissioner Vasconcelos asked is there-- is there anything in ours that says that if that-- uh, if it is larger? I saw that i-it said in here, you know, y-- it has to have-- you know, "Anything that's, uh, smaller than two and a half, it needs to be on, um, you know, concreted-- anything larger than two and a half acres shall be on a permanent foundation and architecturally treated," but.

Assistant Planner Willoughby stated to answer your question, yes, our code, um, does have a similar provision. So above that 2.5 acre threshold, a property owner can have a container on their property without a permanent foundation, without architectural treatments.

Commissioner Vasconcelos stated okay.

Assistant Planner Willoughby stated that is allowed under current code.

Commissioner Vasconcelos stated okay. G-good. Um, I think that-- I mean, I, I think all the, the-- uh, I think if we do meet three of the-- of the, the architectural treatment elements that are provided here, I think that'll be good enough to make it seem like, uh, uh, it's not just a shipping container on a property. Um, I don't know if there's particular materials that we wanna exclude or types of materials on the different types of buildings that may be causing-- you know, might cause an eyesore or something along the line. You mean-- I don't know. People can get creative with what they have--

Chair Thomas stated yeah.

Commissioner Vasconcelos stated--but I don't know if there's something that we need to discuss as a group to-- uh, to find [crosstalk]--

Assistant Palnner Willoughby stated so as, as one example, um, one thing that may be commonly prohibited, and I think at least one ordinance addresses it, uh, from the examples provided is reflective siding.

[crosstalk] Yeah.

Assistant Planner Willoughby stated um, so for the Planning Commission's consideration.

[crosstalk] That was--

Yeah.

Commissioner Vasconcelos stated--that was a concern. So I'm-- but thank you for the hard work and, you know, uh, I'm pass it on and we can continue the discussion.

Chair Thomas stated yeah. Commissioner, uh, Stoker.

Commissioner Stoker stated yeah, thank you again staff for all the digging through other people's ordinances and, and code. Um, there were some particular ones that I thought were interesting. Um, the City of Escondido, uh, ha-had a item that just said, "No signage shall be allowed on any permanent cargo container," which I, I appreciated not only for smaller than 2.5 acres, but larger than. It just kinda gets out of that realm where you see, like, a shipping company out in the middle of the desert where it's burgundy and says, you know, "Property of whoever they bought that container from--" um, but that kind of, "No signage shall be allowed," makes it to where you have to paint it. Um, the other one that I thought was really interesting, also in Escondido, said that, "Cargo containers shall be painted a non-reflective neutral color that is compatible with the primary structure or to blend with-- in with the surrounding environment. So for us, I think that would be like a n-- a desert-neutral tan or something that kinda makes it go away rather than look like a burgundy container out in the middle of the desert, um, which I think is kind of the intent of what our code is, is asking for. Um--

[crosstalk] As unobtrusive as possible.

Commissioner Stoker stated yeah, just, just to make it go away.

[crosstalk] Yeah.

Commissioner Stoker stated the other int-interesting things that I saw, and I didn't dig into ours again after reading all these, but I liked the other, language in item C on packet page 1,638, which is kind of where I saw most of the things I liked, um, where it said that, "Cargo containers may be used for storage only and not for human habitation, and that they may not be used to cons-- to store hazardous materials, um, in violation of any state, federal, blah, blah, blah." Additionally, in Murrieta, uh, they had an interesting-- uh, where was the one that I really dug on them? Oh, oh, th-their, their item G said that, "A cargo container should be modified to match the residential structure," which is similar to ours utilizing three of those styles. "And on larger parcels over two acres, the modification shall be limited to the paint color of the exterior." And s-so that, that was kind of a nice little bit of language that maybe addresses larger, larger parcels and makes it to where they're no-- they're not-- also not an eyesore, even though there-there's less regulation on those. Um, in all of them, I really appreciated the landscape screening methods, um, which I think is probably the most attractive of anything, is having some sort of plantings or hedge or trees to kind of stop the-- just looking like a container.

Um, and then I really dug on packet page 1,639, item K, which stated, "Existing cargo containers at an existing residential property can remain in place 18 months from the effective date of this ordinance." So at least it s-- kinda sun-- it kinda sunsets the existing non-conformity that may be out there and allows us-- allows us to bring some more of those existing non-conforming containers into conformance. That way it's not like we're in, in essence just picking on one. It gives us some--

[crosstalk] Right.

Commissioner Stoker stated--teeth to be able to get more people into, into conformity.

Chair Thomas stated Vice Chair Herensor-- Henderson.

Commissioner Henderson stated, yeah, some really good points by everyone and a great job by staff on putting this together. The one thing that stood out to me at the last meeting was Chair Thomas when he had said that he would like to see some language about-- Twentynine Palms does a good job of, of putting this in there on page 1,637 where they say, "Which are architecturally consistent with the primary residents." And I think that, you know, this draft-- the resolution we have is great. I would love to see that language put in there by providing a minimum of three architectural treatments so that the, the unit is architecturally consistent with the primary residence or somehow aligns with the primary residence.

[crosstalk] Right. Right.

Commissioner Henderson stated I think that would be good 'cause you don't want-- I, I don't know. It just sounds--

[crosstalk] Yeah.

Commissioner Henderson stated--right.

[crosstalk] Yeah. Yeah.

Vice Chair Henderson stated it gives them a, a playing field to go for. But that's all I have.

Chair Thomas stated, okay. Uh, Chairman Noonan-- or not Chairman Noonan. Thank you. Commissioner Noonan.

Commissioner Noonan stated, thank you. Um, so I'm, I'm, I'm happy with the-- um, hitting the three elements that are listed. I think that'll, that'll take care of it. And that would be also including that they have to be on a certifiable pad, correct?

Assistant Planner Willoughby stated yes, that's--

[crosstalk] Yeah. Yeah.

Assistant Planner Willoughby stated --current code.

Commissioner Noonan stated so the pad plus any three of these elements, uh, being in the wording, I think, uh, would, would be great. So I, I like-- I like the work you did. Uh, we've got lots to, to look at and choose from, I think, in drafting ours, so.

Chair Thomas stated, yeah. uh, thank you, Evan, and, uh, to the staff for, uh, putting together and getting the information that we asked you guys to do. You did a great job on that. Um, yeah, I'm in agreement with everybody regarding the, uh, consistency and, you know, three elements. Um, I, I like what, uh, Commissioner Vasconselos said that if the lot is over two and a half acres, maybe we don't, you know, be so sticky on some of this, uh, uh, you know, if the properties are really large. Or the other item, too, is-- uh, 'cause, uh, I, I know you guys have had some issues with that. But if you get a, a plumber that's in a house that's on a commercial setting and he's got a shipping container there to store his stuff in, maybe that shouldn't apply either because it's on a commercial zone property as opposed to being in residential. So, um, we've, we've seen some of that stuff going around a little bit, but,

uh, that's just something to bring up.

Deputy Town Manager Stueckle stated, I think staff has suf-sufficient direction that we can go back, make modifications to the resolution, return it back to the commission for final action.

Commissioner Stoker stated okay. Would it be a-applicable to, to continue this then? Continue the action. Actions to continue?

Deputy Town Manager Stueckle stated or just receive in file this evening. Yeah. Just bring-- just bring--[crosstalk]

Um, Gi-giving staff--

--a motion to receive in file [crosstalk]--

Deputy Town Manager Stueckle stated--direction, we'll return the matter back to you.

[crosstalk]Yeah.

Chair Thomas stated, okay. I'll, I'll make the motion to receive in file.

Motion:
That the Planning Commission reviews Chapter 9.07 Residential and Hillside Reserve Districts, Section 9.07.060(C) and adopts Resolution No. PC 26-03, attached to this staff report. Motion to receive and file.

Result:	(Yes 5, No 0, Abstained 0)
Mover:	Commissioner Mathew Thomas
Seconder:	Commissioner Gerard Noonan
Ayes:	James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

12. Policy Discussion on Minimum Single-Family Residential Dwelling Unit Size

Chair Thomas stated okay. We go to, uh, item number 12, policy discussion on minimum single-family residential dwelling unit size.

Assistant Planner Willoughby stated, thank you, Chair and Commissioners. This is on packet page starting 1,687. The recommendation is that the Planning Commission retains the current minimum standard of 725 square feet for single-family residential dwelling units and discusses the policy information provided in the staff report. Alternatively, uh, the Planning Commission provides a recommendation to the town

council requesting policy direction to research development code amendments relating to dwelling unit size, including but not limited to single-family and multi-family standards and minimum dwelling size standards varying, uh, by the underlying residential zoning district. This, um, is graphically depicting some information provided in the staff report, uh, which is, um, listed on packet page 1,693 to address the single-family residential permits issued, um, by the town from 2023, 2024, and 2025. On the left-hand side is the size range. Um, so 725 to 799, you can see over a period of three years, there has only been an average of one, uh, single-family resident on that lower end of the spectrum, um, per year. Most single-family residences occur in this area above 1,000. You also do see some, um, in 2,000 and continuing to at least one outlier, um, around, I believe, 4, 325 at the time of writing the staff report.

Now, um, the Planning Commission, um, did request some research on other jurisdictions. So, uh, for background, our closest city of Twentynine Palms is still currently at their 400 square foot minimum across all their residential zoning districts. Uh, Town of Apple Valley is, uh, varying, uh, from 1,100 to 1,200. I believe in this case, uh, 1,100 applied to a specific tract, uh, within the town of Apple Valley. Uh, City of Victorville is at a uniform 1,400 square feet, and, um, these other cities may have a number of other, um, m-much more varying, uh, standards, all the way from 600, 750, 900, 1,000, 1,100, 1,350, 2,000, 2,500, and three-- 3,000. Uh, one thing that was interesting, um, to staff, uh, which was apparently not the case when this research was last done around 2019, is there are a good number of these cities in the list, uh, that currently have no minimum for single-family residential dwelling unit size and go solely by the Title 24, California Building Code. Um, it's my understanding in talking to our building official, that minimum number by the building code is somewhere around 164 square feet. So it accommodates, uh, just the bare minimum of that sleeping, um, sanitation, and, and some cooking area.

This continues on, uh, to the next list of cities. A lot of those that you can see do vary the number. Uh, typically by the zoning district, but I'll also show you an example in the next slide that varies it, not just by the zoning district, but also by the number of bedrooms. So this is the City of Cathedral City that you saw in one of the preceding slides with quite a good number of, uh, different minimums. These are two of their single-family residen-- residential zoning districts. Um, this one here for context, is typically one-acre minimum size lots. So, on those one-acre lots, a, a house with, um, two or less bedrooms is required to be a minimum of 2,000 square feet, three or more bedroom-- three bedrooms is 2,500 square feet, and four or more bedrooms is a minimum size of 3,000 square feet. Um, for contrast, as it gets down to the lower parcel sizes, I think this zoning district went down to at least seven-- 7,200 square feet for minimum lot size. The number, uh, which still varie-- varies based on the bedroom, is two or less bedrooms re-requires 1,000 square feet, and three or more bedrooms requires 1,200 square feet, which is still above, uh, where we are today by

our local standard.

Uh, for some additional context, there's some information attached to the packet that might be interesting for the commission to review. Um, there are links provided to all those cities, um, that are included here. Um, so if the commission chooses to, you can click through that information. And, um, it is starting on packet page 1,695. There's also some additional historical information if anyone's interested on PAC page 1,696 and a map, uh, that staff created to, to visualize that historical information on 1,697. Just briefly touching on that, um, there were some much older tract restrictions, um, that Art Miller Jr., um, informed the county at the time of by sending a letter. Uh, those tract restrictions had minimum unit size requirements anywhere from 600, uh, 900, 1,250 all the way up to 1,400. And, uh, you can see that visually on packet page, uh, 1,697. So once again, uh, the alternative is that the Planning Commission retains the current minimum standard of 725 square feet for single-family residential dwelling units and discusses policy information provided in the staff report, or, alternatively, that the Planning Commission provides a recommendation to the Town Council requesting policy direction to research development code amendments relating to dwelling unit size, including but not limited to single-family and multi-family standards and minimum dwelling size standards varying by the underlying residential zoning district. And staff is available to answer questions following public comment.

Chair Thomas stated okay, thank you. Thank you, Evan. Um, seeing nobody in the public, uh, anybody online wish to make a comment. Okay. Close public comment, and we'll go to Commissioner Noonan.

Commissioner Noonan stated, thank you. Um, does staff see any particular reason why i-if lowering the square footage would be advantageous, maybe hitting housing elements or something like that? Is there-- is there any purpose that we can see other than the quality of the actual structure?

Assistant Planner Willoughby stated uh, by itself, um, lowering single-family residential dwelling minimums alone, um, may not be too ad-advantageous in, in conversations and reaching out to these cities and planners who work there. Um, for context, even the ones that had lower minimum dwelling unit sizes than ours typically do not see, um, dwelling units submitted even below our minimum of 725 generally. Um, some can count just a handful in the past few years. Um, but as a whole, the alternative recommendation is structured such that a wider policy discussion could occur not just to address single-family residential standards, but also multi-family. Um, included in your staff report is some notes about our multi-family requirement. Um, a two-bedroom multifamily apartment, for example, is required to be a minimum of 750 square feet, I believe, by our code, which is more than the 725 for single-family residents. So there could be a broader conversation, um, to open it up

and address things that could more comprehensively address, uh, housing.

Commissioner Noonan asked, do you see multi-family residences coming, uh, to our table here soon? Or-- I mean, or is it-- is this really just we're just discussing single-family right now and, and whether or not we wanna lower that?

Assistant Planner Willoughby stated the policy discussion requested by the commission was single-family.

Commissioner Noonan stated okay.

Assistant Planner Willoughby stated um, staff did just want to note information about our multifamily standards in that context and provide that alternative recommendation, um, to address both of those things together.

Commissioner Noonan stated okay. On that, I, I see no reason to, to change it, uh, from my personal view unless someone else has a better reason. So that's all I got.

Chair Thomas stated all right. Thank you. Uh, Vice Chair Henderson.

Vice Chair Henderson stated so, Twentynine Palms is 400 feet. And I believe Commissioner Stoker, you, you had brought this up at that o-one meeting, correct?

Commissioner Stoker, stated yep.

Vice Chair Henderson stated and so I was just curious in conversation, whether Chair Thomas from a real estate aspect or, or Chair Stoke-- or, uh, Commissioner Stoker, have you seen a demand for--c-- for smaller single-family residences at all? Um, where I've seen this, uh, just on s-- on YouTube was, like, uh, tiny houses for Airbnbs in Joshua Tree. And looking at the square footage, they're probably down, you know, under 1,000 feet for sure. Um, but have you seen any demand for this?

Go ahead.

[crosstalk]--Oh yeah, I can--

Deputy Town Manager Stueckle stated just one, one bit on it. At the staff level, the answer is no.

[crosstalk] Okay.

Deputy Town Manager Stueckle stated there-- a-and if you can go back to the slide in the PowerPoint, which shows the size of single families that have been permitted

over the last three years, no one's walking in the door asking for a smaller home.

[crosstalk] Okay.

Deputy Town Manager Stueckle stated so a-at a technical level, that hasn't occurred.

[crosstalk] So would--

Deputy Town Manager Stueckle stated in terms of a tiny home, tiny homes are not stick-built homes. Tiny homes are recreational vehicles or travel trailers that are permitted by the State of California, and cities in California set up an actual zoning district separate from all of their other residential districts for tiny homes. So what you're really talking about here is, is does the town want to have a minimum dwelling unit size? So you have--and the reason staff pointed out, multi-family, is you've got multifamily, a two-bedroom multifamily is larger than your smallest single-family standard.

Chair Thomas stated right.

Deputy Town Manager Stueckle stated and that's a little bit awkward. I don't think that's necessarily typical. Um, so it really comes down to-- a-and I think you should always ask yourself this question when you're working on a public policy issue. And that's what this is, "What problem are we trying to solve?" Remember, government just gets in the way.

Chair Thomas stated right.

Deputy Town Manager Stueckle stated go-government creates more problems than it solves. So the question is, what problem are we trying to solve with considering minim-minimum modifications to the dwelling unit size? And that's for the commission's discussion. Is the goal to build more homes? No, I don't think your goal by adjusting a minimum square footage of a home when you're already at 725 is to facilitate more construction when you've had no applications and no one really screaming for that smaller unit size per se. So anyway, that's just a little bit of background in terms of the whole overall dialogue. Um, I don't know in-- when in discussions with Twe-- did we talk with Twentynine Palm staff if they see any units coming in at that size or no?

Assistant Planner Willoughby stated uh, yes. Uh, we did discuss with Twentynine Palm staff. They are not seeing units coming close to their 400 square foot minimum. Um, so it is fairly rare if it does exist in, in the past.

Commissioner Stoker asked, did you-- did you query the county? Is it how many they

had?

Deputy Town Manager Stueckle stated uh, no, we would not query the county. The, the, the town incorporated it for the purpose of, of municipal regulations and to move away from the county. The county is much larger in jurisdiction. Geographically, they have to address many, many, many other issues than cities do. So no, we would not compare ourselves to the county when it comes to looking at those types of issues.

Commissioner Stueckle asked or, or, or, or just for the statistics of how many were built?

Deputy Town Manager Stueckle asked pardon me?

Commissioner Stoker asked or just for the statistics of how many were built?

Deputy Town Manager Stueckle stated no, because we don't compare municipal growth, municipal development to county.

But we can-- okay.

[crosstalk]

Chair Thomas stated I mean, more and more of-- uh, y-you, you see more and more of the trend going towards these small houses that can be popped up really quickly. You know, uh, Tesla's working on some of them now. And you-you've seen these things at some of the trade shows now where you can come in for 70, 80 thousand bucks and you can buy a little 200, 300 square foot house and put it up and it's self-contained and all this other stuff. Are we kind of keeping our eyes open as to that trend or, or, you know, what's happening? And maybe, we-- like you said, maybe suggest a, a separate zone for that kind of thing. Is there anything like that that the town has discussed? Uh, uh--

Deputy Town Manager Stueckle stated so ultimately, as you all know probably better than staff, the market determines what gets built--

Chair Thomas stated right.

Deputy Town Manager Stueckle stated --at the end of the day. So has there been any development interest that has come forward and tried to implement a tiny home village or a tiny home neighborhood? No, that--

No, no, no. [crosstalk]--

Deputy Town Manager Stueckle stated, --that hasn't-- and I don't know if you guys have conversations--

Chair Thomas stated, no, I was thinking more on an individual residential basis, not a multi-family basis. Like, there-there's a lot of this st-stuff that's starting to hit the market right now because of the unaffordability of housing. So they're just looking at these things, and so--

Deputy Town Manager Stueckle asked do you wanna talk about inquiries you and Jared receive on a typical basis, on residential development?

Assistant Planner Willoughby stated on a typical basis, um, inquiries on single-family residential info lots, we typically try to address the main development standards first and foremost. So they're aware outright, 725 square foot is the minimum. You're-- Correct.

--required to have two-car covered parking. Um, generally, there's no push back on 725.

Chair Thomas stated yeah.

Most people say, "Oh—"

[crosstalk]—

"—I'm, I'm gonna go way—"

Bigger.

"—bigger than that."

Hmm.

Assistant Planner Willoughby stated "I'm going 1,500 square feet." Um, in terms of more unique inquiries on different housing types, uh, I can only really think of one. Um, and it's actually, uh, from the property owner who put forward the fence, uh, application earlier tonight on a separate property to the west in that industrial zoning district, um, to do something like a tiny home subdivision. So there's only been one who's really brought up that topic in the last few years that I've been with the town.

Chair Thomas stated okay. Well, I was just-- I was just curious from a-- from a standpoint of whether you guys have heard of any of this or we're watching the

market trends kinda move to these smaller, quicker homes where-- you know, because of the affordability crisis right now, I guess, and all of this stuff. So what is-- w-- I, I didn't see this here, but it-- I'm sure it's in our, our, our big packet here, but on our 750 square feet, what is the maximum number of bedrooms that can be put into that unit?

Assistant Planner Willoughby stated the maximum number of bedrooms would just be by the California Building Code. So that would dictate what the minimum size for a bedroom and how many you could accommodate in that living space while still complying with those building codes. So we don't--

Okay.

Assistant Planner Willloughby stated --set a, a maximum number of bedrooms by our development code. We just follow build-building codes for that.

Chair Thomas stated you just fo-- you just-- okay, that's great. Okay, that's all the questions I had. Commissioner Stoker.

Commissioner Stoker stated, yeah. So, um, I mean, uh, I think from a real estate standpoint, if a developer is gonna show up in any town or jurisdiction and they're not just running out buying the first thing that pops up, they're gonna do their due diligence. So if someone looking to build a house that's smaller, that looks at our development code or contact planning staff, is gonna know what the minimum sizes are. Anyone that's doing some-- any other construction outside of that norm, I don't think is-- they're not gonna beat down your door to ask because if they're a developer of-- with any salt, they're gonna look it up and know, uh, prior to making a purchase of any property. Um, i-in, in looking at con-conceptually and, and really taking our planning commissioner conference to heart and, and what was kind of brought up at many of the-- many of the talks we had there, um, they discussed our, our housing element ad nauseam and ADUs ad nauseam. And it, it got me thinking about these types of homes even last year at our last planning commissioner conference. Because to me, our job is to plan where we're--

Chair Thomas stated right.

Commissioner Stoker stated --we're planning for the future. And if part of our residential packet that says, "This is how you plan for a house. If you're building a house that's small, then the, the town requires you to site that house in the rear of the property and provide space in the front portion of the buildable portion of that property for a future phase to be a main house," and that would become an ADU or vice versa. I, I even think our larger homes, when we take a plan in, if we're gonna think about the want from the state and the-- and the need for more housing, when

we have someone that comes in and says, "Hey, I wanna build 2,000 feet," we tell them, "Okay, great. Here's your 2,000-foot footprint. Where you wanna put it? Make sure you have 600 square feet that's-- that you kinda have thought out and planned ahead for an additional dwelling unit in the back an ADU," that way we're, we're working with applicants to make sure that they've-- we're really planning for the future. And, and with the future that California with the ADU rules we have, gives us direction. And, and that's kinda where my brain was like, if, if you just build a house without thinking or site a house without thinking, um, going back to when I was drawing plans a lot, I used to make sure I cited a house thinking if I wanted to expand this house or, or add another bedroom on, I wanna make sure that that side of the house still has some room left on that side of the setback. I'd stuff the house onto one side to make sure there's some buildable space left over rather than setting it dead center to where it gives the owner zero flexibility.

And I think there were-- that's what this-- looking at these types of things where people-- or the cities are removing minimum size. It, it lends itself to flexibility. If someone-- if, if I was s-single or just newly married and I said, "Okay, I wanna buy a property, build a small house," and it's in the back corner knowing that down the road I wanna have a family, that might be your starter to get yourself in the door. Get all your utilities there, set yourself up, have this kinda planned place where a larger house can reside. Make sure you, you know, plan yourself out properly at the beginning. And I th-- uh, i-in, in my brain, that's where my brain goes to. Like, these houses, one, it-- i-it-- i-it makes it to where people that are coming up here for a weekend, they might not want a big place. So tha-that might take some of the houses that-- uh, our weekender houses out here, and they might say, "Oh, what I really want is 500 square feet or 400 square feet, just a-- just a weekend like the-- all the homesteaders that were doing it for, for years and years and years before I was born."

And, and that-that's the other little caveat is we have lots of little peppered homestead houses that are still out there that are kind of existing non-conforming, that really can't become a single-family resident still in, in town that with something similar to this could do some very minimal upgrades and become an SFR. Um, so th-that's where my head goes. Like, I see little survivors and they're kind of all up on the mesa, right up on the edges of our-- of, of town, but they're there. They're, like, still sitting out there. And we've had people that have came to our Planning Commission I think seven years ago, wanting us to give them a variance, I've-- if I remember right, on the ability to have their homestead house be an SFR, even though it had previously been given water and power by the county before our incorporation. So having things like that, I thi-- I think would help that situation. Um, and that's kinda why I brought it up as an item, is, is I-- you know, I, I, I know even in the county, there is-- there are smaller houses being built. The one you men-mentioned. Um, I met with that kid who was building those little tiny houses in Joshua Tree. Um, they're not--

they are stick-built. It's like a two-story stick-built house on a footprint that I wanna say is like 175 square feet or 200 square feet with a second floor. It's a weird little two-story thing and it's a one-bedroom, two-story thing that is l-literally like a little teeny tower with-- uh, with like a shed roof for a carport. And, uh, it's a cool little, little house. Um, he built another one. I wanna say it's like 625 square feet in kind of Quail Springs on a weird little lot. And, uh, i-it's like a perfect little weekender spot, um, but it, it helps us hit those numbers. Like, if there's people out there that are looking for something different, I think that helps us hit those numbers.

And n-- for me, even hearing Evan, when you mentioned multifamily, that our multi-family standard is actually a little higher than our single-family standard, if anything, having some more studio apartments-- if there's gonna be an apartment complex being built and having some studio-type things that are 400 to 500 square feet might help us really hit our numbers for multifamily, which we've never hit, or might entice a developer to come up here and wanna build some two-bedroom apartments, single-bedroom apartments, and studio apartments, and have a really good mix of multifamily, um, where it kind of hits different, different things for different people. 'Cause I think there's a lot of single people out there that maybe don't wanna have 1,000 roommates just 'cause most of our housing stock is two-bedroom and three-bedroom homes. They might r-really want to have an affordable studio or s-- or one-bedroom.

Chair Thomas asked, would you be in favor of lowering the square footage amount [crosstalk]--?

Commissioner Stoker stated I, I, I think I would be in favor of lowering the square footage amount, either getting closer to 29 at 400, which I think kinda hits most of th-those remaining-- if I was to guess-- I, I, I wanna say, like, a lot of the ones that I've measured in the past for people for homestead houses, end up being like 330 to 400 square feet. I, I think like 330 was somebody's sweet spot in the '50s when they were building those homestead shacks. Um, but a lot of them are still survivors. Like, up--

Yeah.

Commissioner Stoker stated --up, that wash, um, in La Contenta where our applicant earlier-- there's a lot of those little homestead houses that are kinda still there and still being lived in by people, um, even though they're kind of one-bedroom guys. Um, there's w-- uh, one that I know had water and power forever and ever that, um, a really good friend of mine that m-moved out here-- it was-- it was his weekend house in the '60s and '70s and '80s. And when he retired, he moved out here with his wife. They sold that little thing and bought a, a larger home and retired here un-until he passed. And it-it's still a little survivor that I drive by, and it's probably the smallest house right when you pop out of Juarez into, into La Contenta wash. Um, a-and it-- to

me, I, I think there's an opportunity for us to help hit our number in a little bit different way. And if we could modify our planning of people's single-family homes, if that's something we can add-- Shane, I don't know, you'd be able to speak to it. Is that something we could add to plan-- like, have them in part of their site plan site where the complimentary housing unit would be on a lot? Or is that not something we could ask for?

Chair Thomas stated it seems to me like that would be more of a recommendation than a--

Commissioner Stomer stated well, it would be something that----[crosstalk] say, "Hey, you could do this, but we're not gonna push you to do that [crosstalk]--"

Deputy Town Manager Stueckle stated so, Yucca Valley historically has taken what I would call a hands-off approach on single-family lot development design. You have no design criteria, no design guidelines for single-family homes. When you start going down that pathway, especially if you make-- if you incorporate those types of things into standards, that becomes a-- it's a really bad word today for us. It really is.

[crosstalk] Yeah.

Deputy Town Manager Stueckle stated it becomes a discretionary permit.

[crosstalk] Yeah.

Deptuy Town Manager Stueckle stated every discretionary action subjects you to what? Subjects you to CEQA. What does CEQA subject us to today? Incidental take permits for western Joshua tree. So, when we start going down that-- uh, understood and staff supports. You know, we've sat here now for 35 years of incorporation. You're the rare oddity of designing lots and thinking about those things in the future. If you ask Jared and Evan who worked with people on the phone, at the front counter, most people walk in blind. They haven't looked at the code. They haven't-- they haven't looked at the code. They don't know. They're just gonna plot that house on there and it is what it is. You think about those things because you-you've come up through that background. Um, so anyway, that starts us-- starts to take this community, this organization, in a direction that hasn't gone before. That's not a staff determination. That's ultimately a Planning Commission and Town Council conversation on where you wanna take that. But for every action, there's a reaction. The more complicated you make it, the more time it takes. It subjects it to more regulations. It has the potential for cost increases, all of those types of things.

Commissioner Stoker stated, but, uh, don't we require-- we require a whole litany of things on a site plan already that even as a [crosstalk]--

Deputy Town Manager Stueckle stated information. Information, yes. But in terms of regulating--

Commissioner Stoker stated well.

Deputy Town Manager Stueckle stated--outs-- out-- as long as they meet each one of those criteria, we're, we're mandated to issue a permit. So that's not a discretionary action. In other words, your code is criteria-based or standard-based. If you meet all these following things, staff has no discretion and we're obligated to issue a permit. When we start going down the path of, "Well, we want you to move it over here because of the following reasons," that's where the discretion--

Commissioner Stoker stated well, I-- but if-- but if--

Deputy Town Manager Stueckle stated--comes in.

--one of the standards is plan for-- plan for the ability—

Potential—

Commissioner Stoker stated--to put an ADU in, then it's still a—

Deputy Town Manager Stueckle stated agreed. Uh, but—

--it would still be [crosstalk]--

Deputy Town Manager Stueckle stated just y-- so, so the Commission's aware, we would have that conversation with the legal counsel's office because they're experts in discretion and non-discretion. Um, and then we go down that, that horrible path that so many property owners are facing.

Chair Thomas stated yeah, as an informational thing, I think, you know, planning for ADUs and stuff like that would be fine. I agree with that. But I, I think mandating it or trying to, you know, tell-

Yeah.

Chair Thomas stated--somebody, "Well, you got to put your dream house over here because you got to have room for--" and then maybe they don't ever wanna build one, uh, a-an ADU. So I, I, I don't wanna get into that kind of thing, but just as an informational thing, I think it would be good to hand to people and say, "Hey, here's something for you to think about." You know, that's fine. You know?

Commissioner Stoker stated yeah. No, I, I get you. And I-- and I understand all that. And, and I'm just trying to make it like-- i-it doesn't need to be us telling them where they need to put everything [crosstalk]--I-it's just like when we-- when we draw plans for a site now, we didn't used to have to decide where our s-- where our leach line was gonna go and have enough room planned ahead for 100%--

Mm-hmm.

[corsstalk]--of-- uh, of--

Leach bands.

--leach failure--

Yeah.

--we-- of expansion.

Okay.

Commissioner Stoker stated we didn't have to think about that before, but now we know that leach fields fail and now there's people out there with septic tanks that have no room to put a leach field because that wasn't thought about as something to pre-plan for. And, and that's kind of like-- that's something we put on there now. It's not discretionary. It's just one of the many things you look at when you're designing a home for any s-- any site and making people aware of what's out there for them like, "Hey, think about your guesthouse because it's an ADU now." People didn't used to think about that because granny flats couldn't have a stove. And then the second you were done getting your final, you pulled out that one cabinet that was 30 inches wide and threw it away and slid a stove in for grandma to move in because you weren't allowed to have two kitchens, you know? And we've moved on from that concept. Um, and now it's looking at finding creative ways to have more housing and hit numbers that we're never gonna hit if we don't kinda get a little bit more creative, I don't think.

Chair Thomas stated yeah.

Commissioner Nooan stated I have a couple of questions to-- now that we've been discussing this. [crosstalk]--

Chair Thomas stated yeah. C-- let me-- let me go to Commissioner, uh, Vasconselos, and then we'll come back to you.

Commissioner Noonan stated sure.

Chair Thomas stated yeah.

[crosstalk] Sorry.

No, it's fine.

Commissioner Vasconcelos stated sorry to take up more time, but--

No, it's good.

Commissioner Vasconcelos stated I'm looking at these n--these sizes, the square footages of, uh, minimum square footages. And with my experience of working within this community, Yucca Valley and Twentynine Palms, it seems to me like in Twentynine Palms, when they set these standards for that minimum size, it's probably to make sure that m--a good portion of the homes c--sc--come into conformance or stay in conformance when they're establishing that rule, I would think. Because going out in Twentynine Palms, there are a lot of these small homes that are existing that were there existing in those sites. Coming here into Yucca Valley, I didn't run into nearly as half as many homes that were in this, this size of a--of a 400-square-foot size home. In fact, the house I moved out of my mother's house into to move into was a 900-square-foot home. Looking at it now, when I was a kid, moving out, I'm thinking the house was a, a huge house. Now I look at that--I, I had a patio built that was 900 square feet. So, uh, I-I mean, it's all d--relative to what you need. But in my opinion, I think that lowering the number to 400 square feet is just not--it's not what's right for this community, in my opinion. Um, we wanna have a community that--you know, like, like what Town--uh, like staff has said is that, you know, the need--if the need is there, we would be hearing about it, I think.

Chair Thomas stated yeah.

Commissioner Vasconcelos stated you know? They're not hearing the need. But again, as to Commissioner Stoker's point, if there was something there, we might be seeing someone that may--might be drawing atte-attention to other people that--wanting to come up here and, and build that type of a home or even just, just, uh, the code--a-and as a whole, you know, like, saying that the multifamily, the minimum size is smaller- is larger than our minimum house size. Um, there was a lot that was said that I wanted to talk about, and, and Commissioner Stoker just kind of washed my mind out 'cause he kept going on and on.

Commissioner Stoker stated sorry. Sorry.

Commissioner Vasconcelos stated and, uh, you know, the--I get what your--the points were, were made about, like, th--not looking at what was going on within the county, even though we are surrounded by the county. But you're right. The rules have to addre-address a large area. It's not just our area that they have to conform. There's a lot of area within San Bernardino County that people build that are unincorporated. And those rules are set for that particular area as well. Um, typically, in, in the Town, you know, we have larger homes, like a 900-square-foot home seems reasonable enough. And as you start moving out, you start getting into the County, you start going into Joshua Tree, Morongo, wherever, the homes tend to get smaller.

Chair Thomas stated right.

Commissioner Vasconcelos stated and I think that's a reasonable expectation for them to have. [crosstalk]--

Commissioner Vasconcelos stated you know? Uh, the-- it's just a difficult--it's a di--it's difficult task, I think, for us to, to determine. I r--I really think that we, we should, you know, m-move this on to, you know, the Town Council and ask for direction on not just this policy, but I think the policy as a whole for multifamily and for single-family residential--

Chair Thomas stated yeah.

Commissioner Vasconcelos stated--of, of where we're gonna go if, if-- because it is-- it is important. These smaller homes, yeah, I get it. Like, uh, uh, elderly people, you know, people that can't afford, you know, th-- people that don't even have homes that when they're elderly-- you know, seniors, they don't-- they're renting still. And they-- you know, they're still having that dream to buy, buy a house, own a property. You know, with a smaller home for them. You know, just them or a sing-- they're by themselves or they're-- you know, m-maybe just two of them. You know, small little 600-square-foot house is perfect for them.

Commissioner Stoker stated well, it might o-open up more single-family lots that are adjacent to multi-family lots that could have two smaller houses as a planned, almost like duplex-y sorta thing. That's really a main house ADU that are both similarly sized.

Even if it's four or five hundred square feet, um, that's kind of already built that way.

I think, uh--

But it gives you options.

Chair Thomas stated um, Commissioner Noonan, you had some additional questions.

Commissioner Noonan stated, yeah. So couple of questions and comments based on the discussion. Um, I think i-i-it's not really a good comparison to talk about what's going on in Twentynine Palms simply because they have a Marine base, they have Marine-based housing, and the requirement for a person staying in one of those dwellings, um, is different because they have the support of the entire largest Marine base with all the amenities and all the things on base that they can use. So the actual, uh, square footage of the space they need really doesn't-- I don't think it matches up with what we're trying to do here. The other thing is, um, y-you know, uh, rec cabins versus single-family residences. I know a lot of these small buildings end up in Big Bear and stuff, they have what-- they're, they're called recreational cabins. They have limited amount of time you can stay in them and that's the designation. I think a lot of these s-settlers' cabins out here were, were probably designated as, as rec cabins. So I don't know if even that is really something that's considered a single-family resident--uh, residence. Um, I've talked to a couple people who've-- saying they've, they've had to get, you know, um, uh, uh, variances. They had to get the, the, the designation of s--of rec cabin taken away so they actually stay in their own house.

So, um, a-again, so the--I think that, that explains some of these smaller than 725-square-foot places that we're seeing. I'm not really sure they really are single-family residences. Staff said something interesting to me is stick-built versus the tiny homes are pre-assembled homes. And the, the need that I see mostly with people that I talk about in the community is, you know, they're still--they're still trying to do a, um, you know, uh, uh, um, v-vacation rental. They'll, they'll bring in a small, tiny home to put on the property so they can stay in while they rent their bigger house or vice versa. Uh, I see that being very useful. And I see that if there's a--

Mm-hmm.

Commissioner Noonan stated--if there's a-- if there's a plan for these smaller than 700-square foot--uh, 725-square-foot pre-built houses, if that's a designated thing or a plan like that you said, I think that solves the issues that we're talking about. But when it comes to just issuing a stick-built permit, I-I don't see anything wrong with that number. You know, I, I think that we're talking about two different things, whereas you could bring in a pre-built, uh, you know, Tesla home and stick it on your property, and that's a different issue. So I just wanna make those comments 'cause I, I wanna make sure we're apples to apples and--

--all of the comparisons. [crosstalk]--

Chair Thomas stated--I, I kind of agree with that too because that was my--th-th-that was my purpose for just bringing it up as a discussion. I wasn't necessarily pushing for

anything in regard to that. But I've just seen a lot of the market trends start going to these prefab, quick things. You can get them up and they're--and some of them I walked through it at some of these trade shows. They're really nice. I mean, they're better than some of these things that we s--we see out here. So I just wanna make sure we don't cut ourselves off from that if the market starts to really--you know, if, if we're flexible enough that we can do something in the code that will say, okay--maybe, like, what he was talking about, if it's stick-built, maybe we have certain parameters, but maybe some of these new, you know, high tech free [vent?].

Deputy Town Manager Stueckle stated, so when you-- when you talk with developers, when, when they walk in and they talk tiny homes, they're not talking stick-built. They're talking about prom--buying a pre-manufactured unit--

Chair Thomas stated there's a lot of that going on.

Deputy Town Manager Stueckle stated--that is not subject to the California building codes. So that's where staff was coming from with that differentiation.

Chair Thomas stated yeah. Yeah.

Deputy Town Manager Stueckle stated so you-you've got to-- you've got to do one-- uh, one-- uh, one of two things. You're either-- you're either gonna be building under the California building codes, which we adopt. Or you're going to have a manufactured home or mobile home park, or you're going to have a tiny home project, which meets the definitions you would establish in your code for tiny homes, which are not stick-built. So you-you-you're going to have a mix of those three things and a combination of those three things. Today, we don't have regulations in place that allow for tiny homes, tiny homes being a pre-manufactured unit that's issued by the State Department of Housing and Community Development. They have a stamp and the number on it. We don't-- we don't have that in our regulations today.

Chair Thomas stated it might be a good exercise for staff to see what type of those homes are out there and available, uh, right now. And then some of them [crosstalk]--

Deputy Town Manager Stueckle stated so there's, there's all kinds of options. What, what, what you'll--as the Commission--and, and if the Commission and the town council choose to go forward and study that is, where do you want to put them? What, what zone are you going to create? What part of town are you going to put them in?

Mm-hmm.

Deputy Town Manager Stueckle stated because the person who just bought the $325,000 house that you're gonna put a tiny home next to--

Chair Thomas stated no, we can't. It's got to be--

Deputy Town Manager Stueckle stated it's probably gonna be calling you on your cell phone multiple times a day to have a conversation with you--

Chair Thomas stated yeah.

Deputy Town Manager Stueckle stated--'cause they're not gonna be happy.

Chair Thomas stated no, that's true.

Deputy Town Manager Stueckle stated so those are the types of things that have to be taken into consideration, so.

Absolutely. Hmm. Okay. Anybody else?

Deputy Town Manager Stueckle stated I think-- I think staff's heard some feedback tonight.

Commissioner Vasconcelos stated I have one more thing to say.

Oh. [crosstalk]--

Commissioner Vasconcelos stated yeah. Uh, I was looking at packet page one s-- uh, 696 and 97, and it's a letter from Western Hills Estates and Ranchos. And it basically was stating this minimum square footage size is for the different tracks that were established within this community. And looking at this and then looking at g-- the map that's, uh, uh, corresponding with showing you where the areas are and where the map is located and where those, those home sizes are. If we were to do anything, uh, uh, I would feel comfortable with is, is, hmm, hmm, bringing it to a minimum of 600 square feet because this is the smallest size that they have here is a 600 square foot home that, that was listed. And then-- and, you know, this is really dated because this is way before even I was born because it's showing it as Twentynine Palms Highway at Victorville Road, which I'm assuming is Old Woman Springs Road, but they renamed it. Uh, so this is a very old, uh, uh, letterhead and, and it's not dated. But I think looking at that number of, like, the 600 square foot home--

Where they're located. Yeah.

Where those tracks are located--

Chair Thomas stated mm-hmm.

Commissioner Vasconcelos stated--um, I think tha-that would be the thing that if we were to-- if we were to lower it. I mean, again, I think we should have the city council, uh, give us, uh, a direction on it, but the 600 square feet, uh, I think that's where I would-- I would land more so than the 400 square feet.

Chair Thomas stated yeah, I think 400 is kinda small.

Sorry.

Chair Thomas stated no. Anybody else?

Commissioner Noonan stated that at least is a methodology for trying to figure out the number. I think that's a pretty decent thing to look at.

Deputy Town Manager Stueckle stated so, I think staff has heard, um, the commission's comments very clearly. Let us go back to the drawing board a little bit, do a little bit more packaging on this, bring it back to you so you can send forward a good comprehensive report or recommendation up to the Town Council.

Chair Thomas stated okay. All right. [crosstalk]--

Deputy Town Manager Stueckle stated so it'd be a recommendation to receive and file and then we'll return it back to you.

Chair Thomas stated okay. Anybody wanna [crosstalk]--

Commissioner Stoker stated I'll make a recommendation to receive and file.

Motion:
That the Planning Commission retains the current minimum standard of 725 square-feet for single-family residential dwelling units and discusses the policy information provided in the Staff Report.

Result: (Yes 5, No 0, Abstained 0)
Mover: Commissioner Clint Stoker
Seconder: Commissioner James Henderson
Ayes: James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

13. Land Development Update

Chair Thomas stated go to item 13, Land Development Update.

Deputy Town Manager Stueckle stated couple of things. We heard from the IT folks at Town Hall that they're gonna push forward for the tablets, the iPads or tablets for the full commission so you won't have--

Thank you.

Deputy Town Manager Stueckle, stated --these full stacks of paper. If you still do want the printed agenda, which some people do prefer the printed agenda, just let staff know. We will still be producing those for whoever makes that request. We recently moved to a new system, a new electronic agenda system. So this was an experiment. Staff figured out how we can print the staff reports and a little bit of backup material, but then put like the 800 pages of CEQA documents, not print that out, but have it availably-- available electronically on the town's webpage. So, at your next meeting in April, you're gonna have this project again. So you're gonna have the mini storage. You're going to have the Walmart fuel station, which has a CEQA document, and you're going to have Dutch Brothers. So it's probably gonna be a s-- taller stack of paper than this. So we're gonna experiment with that, and we'll put the CEQA documents electronically online. We'll print everything else, uh, out in paper and see how that goes. Did I--

[crosstalk]--

--s-state that correctly?

You did state--

All right. Very good.

Right.

Deputy Town Manager Stueckle stated the, um, only other thing that I wanna mention, and then, um, Evan can comment in-- cam on-- comment on, um, the contractor for Starbucks West has walked away from the project, sent us an email indicating that he's no longer associated with the project. Um, I noticed today when driving by, the chain link fence has been removed. The sandbags were left exactly where the posts were for the chain link fence, the construction fencing, but the construction fencing is gone. So what transpired in that business relationship, we're not privileged to have that information, but I just wanted the commission to be aware when you drive by and you say, "What's happening here?" Um, the contractor has indicated he's no longer on the job. Evan, any other updates for the commission tonight?

Assistant Planner Willoughby stated uh, just one very recent update. Earlier, uh, this

week-- I believe just yesterday, we received a resubmittal, uh, for a project. Um, the property next to CNS, the new restaurant that they're proposing, uh, they resubmitted. So that is currently in another round of completeness review and hopefully moving forward in the near future. Uh, that is the only major item to comment on commercial and development-wise.

Chair Thomas stated okay. Well, uh, we wanna receive and file that as well?

Commissioner Henderson stated I'll make a motion to receive and file.

Motion:
That the Planning Commission receives and files the report.

Result:	(Yes 5, No 0, Abstained 0)
Mover:	Commissioner James Henderson
Seconder:	Commissioner Clint Stoker
Ayes:	James Henderson, Gerard Noonan, Clint Stoker, Alejandro Vasconcelos, Mathew Thomas

Future Agenda Items

Chair Thomas stated yes. Go to, uh, future agenda items, planning commission meeting. No, wait a minute. That's kind of-- well, yeah. [crosstalk]--

Deputy Town Manager Stueckle stated so the fourt--

[crosstalk]--

Deputy Town Manager Stueckle stated--yeah, the 14th, you'll have, uh, the fueling station at Super Walmart. You will have Dutch Brothers, and we will have the mini storage facility back in front of you. I don't think we'll be back in front of you with, um, single-family home square footage that's gonna take a little bit more staff time. Is there anything else coming back to the commission?

Assistant Planner Willoughby stated um, one, one, uh, minor but more unique thing. We do have a request for a waiver of a specific plan requirement on our zoning map for a residential parcel. Um, they intend to plan for future single-family residential development. And, uh, there's a SP, which is a specific plan requirement on the parcel, which may not be appropriate for single-family residential, uh, development, which is otherwise by right. But the Planning Commission, uh, will see that staff report and have that discussion at their future meeting.

Chair Thomas stated okay. Great.

Deputy Town Manager Stueckle, stated We are hanging right around 120 available short-term

vacation rental permits. Um, this year, we do have a lot of renewals coming in because this is renewals for those in 2022, which was our largest year. Um, surprisingly, the number of available permits is not increasing. It's slowly going down.

Yeah.

Deputy Town Manager Stueckle stated, so it's still very, very, very active. Um, keeps Janet, um, extremely busy these days. Um, so that's still, still moving forward. Single-family home activity is pretty slow.

Right now, I think we issue--we've issued one so far this month, and we maybe have one other that's gonna be issued. So, um, that part has slowed down. Um, sewer permits, sewer connections are underway in the country club neighborhood. So those are starting to pick up a little bit. Um--

Chair Thomas stated never happened in my house.

[inaudible].

Deputy Town Manager Stueckle asked anything else, Evan, on your list?

Assistant Planner Willoughby stated um, nothing more on my list, uh, to report.

Deputy Town Manager Stueckle stated thank you.

Public Comments

Chair Thomas stated Okay. All right. Now we go to, uh, public comments. Oh boy, I remember reading this thing before. Okay. Planning Commission takes this time to consider your comments on items of concern, which are not on the agenda. When you are called to speak, please state your name and community of res-residents. Please limit your comments to three minutes or less. Inappropriate behavior, which disrupts, disturbs, or otherwise impedes the orderly conduct of the meeting will result in forfeiture of your public comment privileges. The Planning Commission is prohibited by state law from taking action or discussing items not on the printed agenda. Is there anybody in the public that wants to make a comment or online?

Audio/Visual stated uh, yes, we have one speaker online.

Okay.

Audio/Visual stated uh, Eric Linnert, uh, you have three minutes to speak. I've requested you to unmute.

Eric Linnert, public speaker, stated hello. Uh, can you hear me okay?

Audio/Visual stated yes.

Eric Linnert, public speaker stated, great. Um, hi, everybody. Sorry I am late and I missed my item. I do apologize. I will catch up on the conclusion of that after, um, via the recording. I just wanted to add, uh, that I appreciate, um, staff and the commission considering the, uh, housing item, especially around minimum hais-- housing. As Evan mentioned, um, and if you recall, I came through last July to discuss the development code interpretation on that burned house on Encelia. And, uh, we're considering options and looking at a micro-unit, uh, housing project. I'm still having a hard time, like, labeling what smaller than conventional homes are called, whether they're tiny homes or tiny home on wheels or whatever. Um, so we're just kinda, uh, observing the CEQA potential and hoping for an exemption. But just wanted to, uh, you know, again, s-- uh, say that I appreciate the conversation and energy around this topic. I think it's super important. Um, and, uh, just lastly, uh, I think it's great that you're moving to paperless 'cause I know that's probably a lot of paper per meeting, um, across the whole, um, town. So yeah, thanks again for reviewing and looking forward to working together more.

Chair Thomas stated okay. Thank you so much.

Eric Linnert, public speaker, stated, thank you.

Chair Thomas stated all right. Anybody else? No? Okay. We'll close public comment and we'll go to staff reports and comments.

Staff Reports and Comments

Assistant Planner Willoughby stated no other staff reports and comments tonight. Thank you.

Commissioner Reports and Comments

Chair Thomas stated Commissioner reports and comments. Commissioner Noonan, anything?

Commissioner Noonan stated um, no, just wanted say thank you to the, the, the town for sponsoring my, uh, Planning Commission Academy. It was very enlightening. And, uh, uh, again, every time I attend, I, I don't regret it. I, I learn a lot more and it helps me. So thank you for that. And, uh, thank you for all your details, uh, on, uh, tonight's agenda.

Chair Thomas stated okay, Vice Chair Henderson.

Vice Chair Henderson stated yeah. W-- I mean, thanks to staff. That was a stacked-- a stacked agenda. I just wanted to, um, take a moment to thank Commissioner Vasconcelos for a, a fantastic year as the Chairman. Uh, y-you did a great job leading the commission and, and showing respect to the general public and our public speakers and extending time to them when they needed it. So thank you for a great job. And then I wish, uh, Chair Thomas a great

year and--

[crosstalk]--

--thank you [crosstalk].

Chair Thomas stated Commissioner Stoker.

Commissioner Stoker stated, yeah. Um, thanks to staff. Is--that's a boatload of pages. So, um, uh, I'm happy to have my iPad, actually, for this one, just with so-- with so many pages to have to lug around. Um, it's awesome that we're moving to--uh, to tablets, so that'll be great for everybody. It'll be a little bit of a learning curve, I'm sure. Uh, but I think in the-- in the long run, it's gonna be a way to--I don't know how many thousand pages we burn through, but, um, uh, I feel like it's, it's a s-step in the right direction there. Um, uh, Alejandro, um, it has been awesome having you, uh, run the meetings for a year and look forward to Matt, you were continuing, continuing that torch. Um, and--uh, what else was there? Nothing really. Nothing good. Or everything good. It's all good.

Okay.

Uh, thanks so much. Have a good [crosstalk].

You bet. Commissioner Vasconcelos.

Chair Thomas stated okay, Commissioner Vasconcelos

Commissioner Vasconcelos stated, yeah. Um, thank you, staff, for tonight's meeting. You know, you guy-- y-you guys got an extra week, uh, to prepare-- an extra two weeks to prepare since we were at our Planning Commissioner Conference the last time, which we enjoyed and, you know, got to network with people and got to re-refresh ourselves on CEQA and, and-- uh, and whatnot. The riveting information. De-definitely some good information regarding future items like, um, autonomous vehicles and how they might impact, uh, our communities. And then, um, also with, you know, how, uh, AI can help, uh, out communities in, in, in general with whatever they might have. Um, I wanted to thank, uh, my fellow commissioners for the past year a-as, as their chair. Uh, it was entity-enjoyable. And you guys made it very easy and it made an easy transition. And, uh, I did enjoy my sine-- my time as the chair. And, and maybe some-- in four more years, I'll be the chair again. But, uh--

Chair Thomas stated I'm sure you will.

Commissioner Vasconcelos stated--we'll see how that goes. But I appreciate that. I appreciate every one of you and the community. And, uh, uh, thank you for another great meeting.

Chair Thomas stated yeah. And [crosstalk]--

Commissioner Noonan stated wait. And thank you for my cup. I forgot to say that.

Yes, thank you for the cups. Thank you to staff--
[crosstalk]--

Chair Thomas stated--for all of this. Uh, I have to admit that-- I, I think you-- uh, Vice Chair Henderson and myself have been the longest ones on, on the planning commission at the moment. I don't think I've ever seen a stack like this before in five or six years, whatever it's been. In fact, when we were driving home, the staff usually puts it on top of my gate or something 'cause they can't get in. And we just drove up. My wife goes, "Oh my God, you're gonna be late." S-so, uh, glad we're getting the tablets. That'll be a nice change. But, uh, staff, you did a great job on this. You got back the information that we asked for. It was really nicely done, well in depth, and Evan, you did a great job tonight.

Announcements

Chair Thomas stated upcoming Meeting Schedule: The next regular meeting of the Yucca Valley Planning Commission will be held on Tuesday, April 14, 2026, at 6:00 PM in the Yucca Valley Community Center Yucca Room.

Adjournment

Chair Thomas adjourned the meeting at 7:57 pm.

Respectfully submitted,

Janet Yochmowitz
Commission Secretary

Town of Yucca Valley
Planning Commission Staff Report

To: Planning Commission

From: Jared Jerome, Senior Planner

Date: March 25, 2026

Meeting Date: April 14, 2026

Subject: Environmental Assessment, EA 18-23; Site Plan Review, SPR 07-23, Resolution PC 26-02, Sun Mesa Mini Storage. A request to construct and operate an 79,600 square foot self-storage facility with manager's unit, landscaping, and off-site street improvements. The project site is located at 4815 Newton Lane and is also identified as APN: 0597-111-67.

Recommendation:

Environmental Assessment 18-23:

That the Planning Commission adopts the Resolution, the Mitigated Negative Declaration and Mitigation Monitoring Report for Environmental Assessment 18-23.

Site Plan Review 07-23

That the Planning Commission approves SPR 07-23, a request to construct and operate an 79,600 square foot self-storage facility with manager's unit, landscaping, and off-site street improvements.

Prior Review:

The Planning Commission continued the item at their meeting of March 24, 2026.

Discussion:

DISCUSSION

Case:

Site Plan Review (SPR) 07-23, Environmental Assessment (EA) 18-23; Sun Mesa Mini-Storage, 4815 Newton Lane (APN 0597-111-67).

Application Timeline Overview:

Application Submitted On: 12/13/2023

30 Day Completeness Review Letter Sent:	1/9/2024
1st Resubmittal:	2/5/2024
Corrections Letter Sent:	2/22/2024

2nd Completeness review letter:	3/12/2024
2nd Resubmittal:	11/12/2024
3rd Resubmittal:	4/7/2025
Application deemed complete:	4/8/2025
CEQA RFP released:	4/11/2025
CEQA selection letter to applicant:	6/2/2025
Draft IS/MND for public review:	1/16/2026
Public Hearing Notice	2/25/2026

Request:
The original request included the construction and development of an approximate 89,700 square foot multi-structure self-storage facility that is 9'6" in height, located on approximately 4.34-acre property, with parking, landscaping, and drainage improvements. Phase 1 of the project is located approximately on the western half of the property and Phase 2 is located on the eastern half of the property.

On March 23, 2026, the project applicant provided a revised request for a total of 79,600 square foot multi-structure facility. The revised request is consistent with the original project analysis, with a smaller scale and footprint, and therefore consistent with the California Enviornmental Quality Act (CEQA) analysis.

Applicant:
Rob Billings
5024 Wallaby Street
Yucca Valley, CA 92284

Property Owner:
Rob Billings
5024 Wallaby Street
Yucca Valley, CA 92284

Representative:
Dan Patneaude (DRP Enterprises LLC)
PO Box 4428
Yucca Valley, CA 92263

Location: The project is located at 4815 Newton Lane, southeast corner of the intersection of Sun Mesa Drive and Newton Lane, approximately 600 feet east of State Route 247 and approximately 650 feet north of Buena Vista Drive.

APN:
0597-111-67

Existing General Plan Designation:

Industrial (I)

Surrounding General Plan Designations:

North: Rural Living (RL-5) 5 acre minimum
South: Commercial (C)
East: Rural Living (RL) (County of San Bernardino)
West: Industrial (I)

Existing Zoning Designation:

Industrial (I)

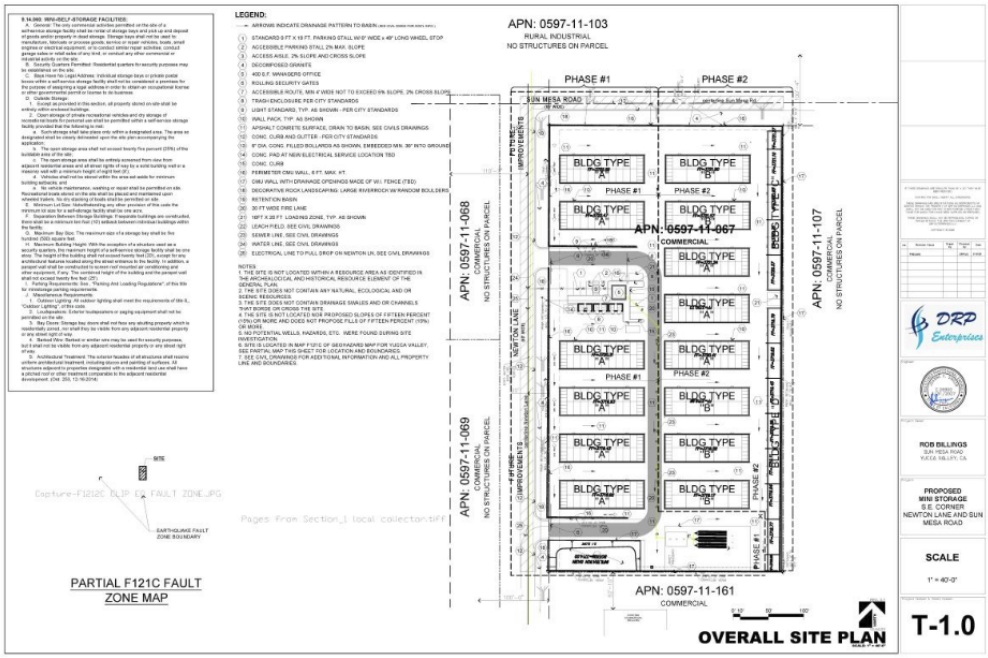
Surrounding Zoning Designations:

North: Rural Living (R-L-5)
South: Neighborhood Commercial (C-N)
East: Rural Living (RL) (County of San Bernardino)
West: Industrial (I)

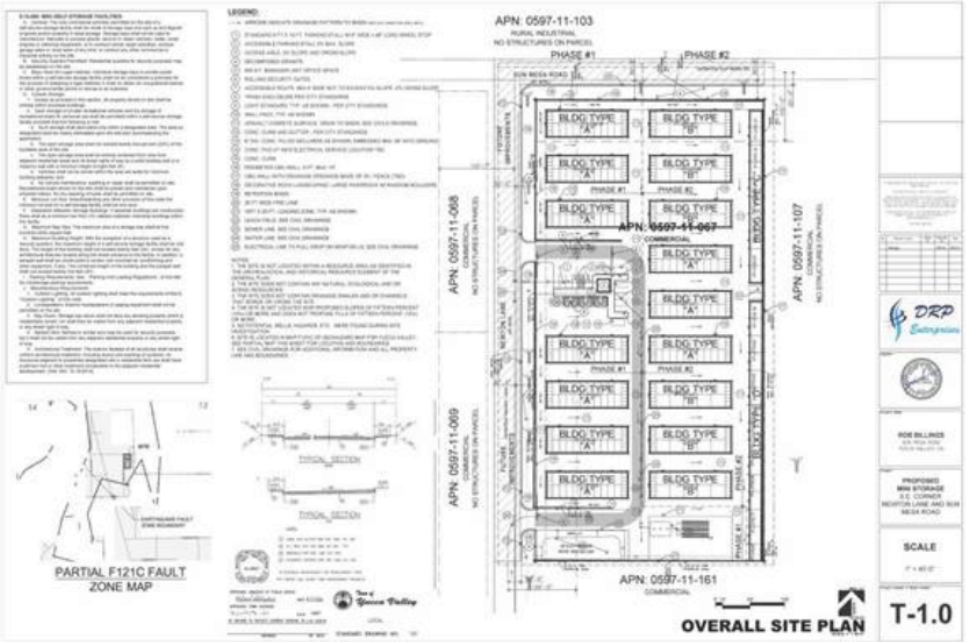
Surrounding Land Use:

North: Vacant Residential
South: Commercial
East: Vacant Residential
West: Vacant/Non-permitted Storage

Revised Site Plan (3-23-2026)



Original Site Plan



PROJECT DESCRIPTION

The proposed project is a self-storage facility southeast of the intersection of Newton Lane and Sun Mesa Drive in the Town of Yucca Valley in San Bernardino County (APN: 0597-11-067). The proposed project includes the development of approximately 478 storage units (541 previously proposed), a manager's office, parking, internal roads, and landscaping on an approximately 4.34-acre site. In addition, offsite improvements (including partial pavement of adjacent roads) would be provided. The total building area is proposed to be approximately 79,600 square feet.

The project consists of: (1) utilities improvements; (2) construction of self-storage units and a manager's office; (4) parking; (5) landscaping; and (6) improvement of half of Newton Lane along the project's west boundary from the project site to Buena Vista Drive, and Sun Mesa Drive along the north boundary.

The project is proposed to be constructed in two phases. Phase 1 is proposed to begin in the first half of 2026 includes construction of approximately 50% of the rental units as well as the manager's unit. Phase 1 is anticipated to take three (3) to four (4) months to complete. Off-site improvements are required to be completed during Phase 1. Phase 2 construction is dependent on Phase 1 sales.

The project site has a General Plan land use designation of Industrial (I) and is zoned Industrial by the Town of Yucca Valley. The proposed self-storage facility is permitted use within the Industrial zoning district and does not require a General Plan Amendment or Zone Change. With approval of a Site Plan Review, the project would conform to the existing land use and zoning designations.

The following conditions of approval are recommended to ensure consistency with the Town's adopted standards and regulations:

P3. All exterior lighting shall comply with Development Code chapter 8.70, Outdoor Lighting and shall be illustrated on all construction plans. The proposed project shall cause no light trespass at all property lines. Light trespass shall be defined as exceeding 0.3 foot candles at any property lines.

P5. Parking and on-site circulation requirements shall be provided and maintained as identified on the approved site plan. Areas reserved for access drive and/or fire lanes shall be clearly designated.

a. All paved parking stalls shall be clearly striped and permanently maintained with double or hairpin lines with the two lines being located an equal 9 inches on either side of the stall sidelines. All regular parking stalls be a minimum 9' x 19'.

b. All marking to include parking spaces, directional designation, no parking designation and fire lane designations shall be clearly defined and said marking shall be maintained in good condition at all times. The Town Traffic Engineer shall approve all signage and markings for the circulation related signage.

c. All two-way drive aisles shall be at least 26 feet in width.

E1. Install asphalt concrete (AC) pavement, curb and gutter and sidewalk, along with any additional required AC pavement, along the project frontages on Newton Lane and Sun Mesa Drive per Town Standard Drawing No. 101. Driveways shall be constructed per Town Standard Drawing No. 213. Pavement shall be twenty-six feet (26') wide when measured from curb face. This will require paving six feet (6') on the other side of the street centerline. Pavement on Newton Lane shall extend to Buena Vista Avenue.

E2. Per Town Standard Drawing No. 213 commercial driveways shall be located 150 feet from the curb return.

E3. The site plan shall be revised to show the existing twenty foot (20') radius property line at the southeast corner of Newton Lane. and Sun Mesa Drive.

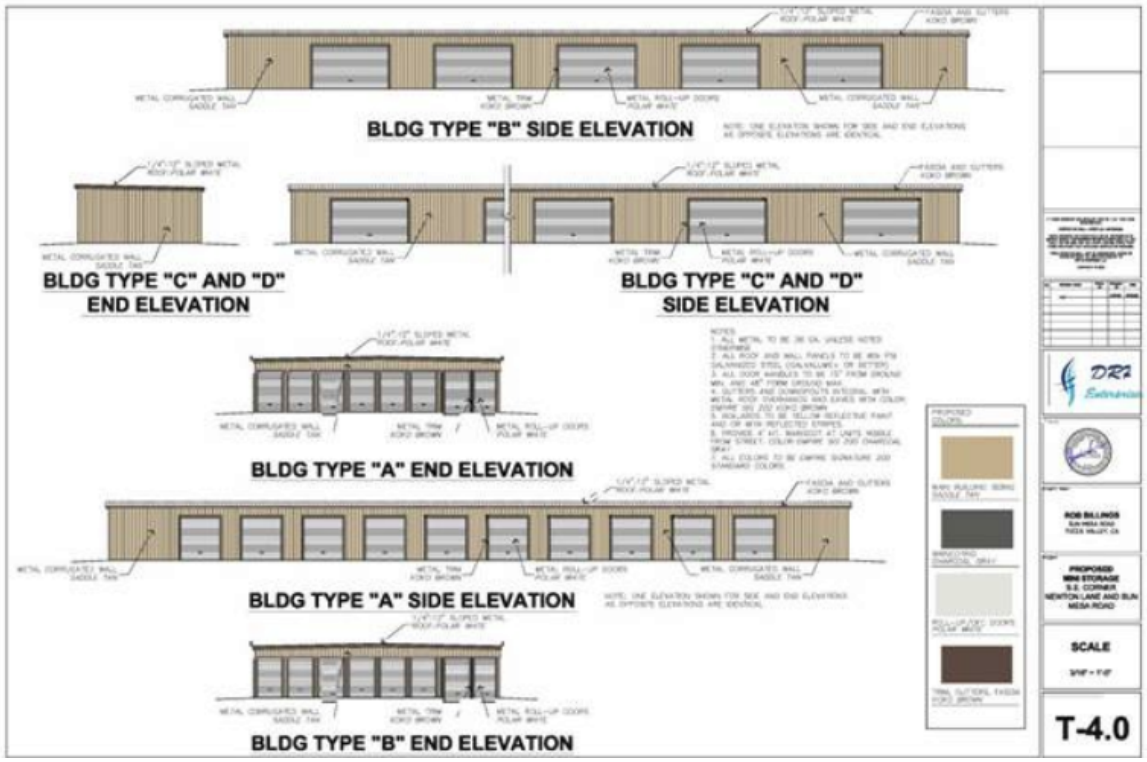
E5. Due to the location of the proposed on-site retention basin an overflow outlet will be required. The outlet shall be designed, and the design included in the project grading plan, to ensure protection of the outlet and the retaining wall footing.

E6. There appears to be a thirty foot (30') error in the property line dimensions when scaled from the drawings submitted for review. This error must be corrected to the satisfaction of the Town Engineer. This may require a Record of Survey be recorded with the County Surveyor's office. A copy of the Record of Survey, if required, shall be submitted to the Town Engineer at the time of submittal to the County Surveyor's office.

E7. The applicant shall ensure that all construction related to the proposed retaining walls and basin overflow facilities occurs on the applicant's property. Proof of any temporary

construction easements, if needed, shall be submitted to the Town at the time of grading permit application.

E8. Prior to issuance of building permits, the applicant shall cause to be formed Community Facilities District (CFD) for infrastructure improvements as required by the Town. The applicant shall initiate the CFD formation by submitting a landowner petition and consent form and deposit necessary fees concurrent with the application for street and grading plan review and approval.



PROJECT ANALYSIS

PROJECT AREA:
4.34 acre

BUILDING AREA:
79,600 square feet

SETBACKS:
Front: 15’ minimum required by Code. 62’ proposed.
Rear: 0’ minimum required by Code. 135’ proposed.
Interior Side: 0’ minimum required by Code. 5’ proposed.
Street Side: 15’ minimum required by Code. 35’ proposed.

MAX BUILDING HEIGHT:

Maximum 75’ allowed by Code. 9’6” and 13’2” proposed.

FAR:
1.0 Maximum allowed by Code. 0.36 proposed.

PHASED CONSTRUCTION:
Yes, two phases. First phase beginning in 2026, and second phase to begin based on sales of Phase 1.

FLOOD ZONE:
No

ALQUIST PRIOLO/EARTHQUAKE FAULT HAZARD ZONE :
Yes. Employee hours and construction consistent with Alquist Priolo requirements.

ACCESS/PARKING: 6 stalls plus 2 for caretaker.
1 standard ADA stall
1 van accessible ADA stall
5 loading stalls (one per 20,000 square feet)

ADA:
ADA compliant parking and access required. One (1) ADA compliant parking space is required. The site plan illustrates one (1) ADA parking space and one
(1) van accessible ADA parking space. ADA access from a public roadway to the building is required.

AIRPORT COMPREHENSIVE LAND USE PLAN:
The project is not located in a Safety Review Area of the Yucca Valley Airport Land Use Plan.

LANDSCAPING:

The preliminary landscape plan for the proposed project includes five (5) 15-gallon Aristocrat pear trees (Pyrus Calleryana), 11 15-gallon

Crepe Myrtle trees (Lagerstroemia Indica), 2 15-gallon Golden Rain trees (Koelreuteria Paniculata), 6 24”-box Chinese pistache trees (Pistacia Chinesis), two (2)

15-gallon Southern Live Oak tree (Quercus Virginiana), 25 5-gallon Prickly Pear cacti (Opuntia), and 8 transplanted Yucca Brevifolia (Western Joshua Tree – as

allowed following CDFW review). Decorative river rocks and boulders are proposed as decorative xeriscaping between the plants identified above.

TRASH ENCLOSURE:
Project includes three (3) trash enclosures located to the south of the manager’s unit.

RIGHT OF WAY DEDICATION REQUIRED:
No, existing road easements adjacent to project site. To be verified by Town Engineer.

OFF SITE IMPROVEMENTS REQ
Yes. Applicant to install off-site improvements including half-width roadway improvements to Sun Mesa Drive adjacent to project site and Newton Lane from project site to Buena Vista Drive.

ASSESSMENT DISTRICTS REQ :
Yes, for on-going road maintenance.

STREET LIGHTS:
No

CAL TRANS PERMIT REQUIRED:
No (required if work is required in Caltrans right-of-way)

UTILITY UNDERGROUNDING
Yes, in accordance with Ordinance 233.

ON-SITE LIGHTING:
All lighting shall be shielded to comply with Development Code Chapter 8.70, Outdoor Lighting.

The photometric plan shows illumination that exceeds 0.3-foot candles at the property lines. Condition of approval P3 is recommended, requiring 0.3-foot. candles or less of lighting output at each property line, to be reviewed by Planning Division staff.

AIRPORT INFLUENCE AREA:
No

TRAILS AND BIKE LANE MASTER PLAN:
No

PUBLIC FACILITY MASTER PLAN:
No

PARKS AND REC MASTER PLAN:
No

MASTER PLAN OF DRAINAGE:
No

SPECIFIC PLAN/PLANNED DEVELOPMENT:
No

GATEWAY REIMBURSEMENT DISTRICT:
No

AVALON SIGNAL REIMBURSEMENT DISTRICT:
No

HDWD SEWER CONNECTION:
No

FUTURE PLANNING COMMISSION ACTION REQ.
No

TOWN COUNCIL ACTION REQUIRED:
The project would be reviewed by Town Council only if an appeal is filed.

GENERAL PLAN CONSIDERATION

The project site is designated Industrial. The description below is provided from the Yucca Valley General Plan, Land Use Element, for reference to the Industrial designation.

Industrial and related uses, including warehousing/distribution, assembly and light manufacturing, repair facilities, and supportive retail uses. Preferred development types include master planned business and industrial parks with integrated access and internal circulation. Outdoor storage is also permitted in this designation; however, special screening and design treatments must be applied to outdoor storage within the Rural Mixed Use Special Policy Area for properties on the north side of Skyline Ranch Road.

Self-storage uses are considered an appropriate use in the Industrial District, and the project is consistent with the General Plan land use designation.

DEVELOPMENT CODE CONSIDERATION

The property has a zoning designation of Industrial.

This designation allows for uses such as mini and personal storage facilities with an approved Site Plan Review per Chapter 9.10.020 of the Town's Development Code. Therefore, the development of a self-storage facility is in conformance with the Town's Development Code.

ENVIRONMENTAL CONSIDERATIONS

An Initial Study/Mitigated Negative Declaration (IS/MND) was prepared for the proposed project pursuant to the California Code of Regulations, Title 14, Sections 15072 and 15105.

The IS/MND identified potentially significant environmental impacts to the following resource areas: Biological Resources, Cultural Resources, Geology/Soils, Noise, Tribal Cultural Resources, and Mandatory Findings of Significance. Mitigation measures are incorporated to mitigate those potentially significant impacts to a level considered less than significant with mitigation incorporated. Please see attached IS/MND for a detailed analysis of potential impacts and

required mitigation measures.

ADJACENT LAND USES

The project is surrounded by commercial/industrial and residential uses, including vacant residential properties located to the north and east, vacant industrial property to the west, outdoor vehicle storage to the southwest, and manufacturing to the south. The proposed use is consistent with surrounding land use activities and no land use conflicts or impacts are anticipated.

SITE CHARACTERISTICS

The proposed project site is approximately 4.34 acres. The site is currently vacant. The north end of the property abuts Sun Mesa Drive and the west side of the property abuts Newton Lane. Access to the property is proposed to be provided from Buena Vista Drive via Newton Lane.

BUILDING ELEVATIONS

The height limit for industrial facilities is 75'. The maximum height of the proposed storage structures are approximately 9'6" high. The structures feature "saddle tan" corrugated metal walls and white metal roll-up doors. The metal roof is proposed to be painted "polar white". The structures are rectangular and feature a sloping roof.

The manager's unit features a similar color scheme, but with charcoal gray accents on the lower portion of the structure. The height of the manager's unit is 13'2".

ACCESS/PARKING

Access to the proposed project site is gained via two driveways on Newton Lane. No driveway is proposed off of Sun Mesa Drive.

Mini-storage or public storage facilities require six (6) spaces plus two (2) for caretaker parking. One (1) ADA compliant parking space is required for up to 25 provided parking spaces.

The proposed project features eight (8) standard parking stalls, one (1) standard ADA compliant parking stall, one (1) ADA van accessible space, and five (5) loading spaces.

AIRPORT COMPREHENSIVE LAND USE PLAN

The project is not located in a Safety Review Area.

FUTURE HDWD SEWER CONNECTION

The project is not required to connect to the HDWD Sewer System.

UTILITES

The project is conditioned to underground utilities in accordance with Ordinance 233.

SIGNAGE

Signage is not currently proposed as part of the SPR application. Permits for signage are to be processed under a separate application and staff approval.

CONCLUSION

Based upon the facts on record, the project is consistent with the Town's General Plan, and Development Code, as recommended and conditioned. Industrial development was anticipated for this site with the adoption of the General Plan. With approval from the Planning Commission, the development meets and satisfies the goals, policies and implementation strategies of the General Plan.

SITE PLAN REVIEW FINDINGS

A. That the location, size, design, density and intensity of the proposed development is consistent with the General Plan, the purpose of the land use district in which the site is located, and the development policies and standards of the Town;

The proposed project site is located in the Industrial General Plan Designation and Industrial zoning district. The proposed size, design, and land use are consistent with the General Plan and Development Code requirements.

B. That the location, size, design and architectural design features of the proposed structures and improvements are compatible with the site's natural landform, surrounding sites, structures and streetscapes;

The proposed development features single-story metal structures, painted white, gray, and tan. The primary color, tan, is anticipated to blend into the surrounding natural landform and is an earth tone that is recommend in the Town's Commercial Design Guidelines. Although "boxlike" structures and metal siding are considered "undesirable elements" in the Commercial Design guidelines; the design of the structures is consistent with other self-storage land uses located in the Town and other structures located in the Industrial zoning district.

C. That the proposed development produces compatible transitions in the scale, bulk, coverage, density and character of the development between adjacent land uses;

The proposed structures are similar in design and scale as compared to other industrial developments and not anticipated to result in any architectural incompatibilities in terms of scale, bulk coverage, density, or character of surrounding land uses.

D. That the building site and architectural design is accomplished in an energy efficient manner;

The proposed project is required to meet all California Building Code requirements for the type of commercial structure including the CALGreen requirements. As such, the building is anticipated to accomplish energy efficiency.

E. That the materials, textures and details of the proposed construction, to the extent feasible,

are compatible with the adjacent and neighboring structures.

The proposed development features single-story metal structures, painted white, gray, and tan. The primary color, tan, is anticipated to blend into the surrounding natural landform and is an earth tone that is recommend in the Town's Commercial Design Guidelines. Although "boxlike" structures and metal siding are considered "undesirable elements" in the Commercial Design guidelines; the design of the structures is consistent with other self-storage land uses located in the Town and other structures located in the Industrial zoning district.

F. That the development proposal does not unnecessarily block views from other buildings or from public ways, or visually dominate its surroundings with respect to mass and scale to an extent unnecessary and inappropriate to the use;

The proposed development ranges from approximately 9'6" to approximately 13'2" in height. Due to its limited height, the proposed project is not anticipated to visually dominate its surroundings or block views from other buildings or the public right of way.

G. That the amount, location, and design of open space and landscaping conforms to the requirements of the Development Code, enhances the visual appeal and is compatible with the design and functions of the structure(s), site and surrounding area;

The preliminary landscape plan for the proposed project includes five (5) 15-gallon Aristocrat pear trees (Pyrus Calleryana), 11 15-gallon Crepe Myrtle trees (Lagerstroemia Indica), 2 15-gallon Golden Rain trees (Koelreuteria Paniculata), 6 24"-box Chinese pistache trees (Pistacia Chinesis), two (2) 15-gallon Southern Live Oak tree (Quercus Virginiana), 25 5-gallon Prickly Pear cacti (Opuntia), and 8 transplanted Yucca Brevifolia (Western Joshua Tree – as allowed following CDFW review). Decorative river rocks and boulders are proposed as decorative xeriscaping between the plants identified above.

Pursuant to Chapter 9.32.070 of the Town's Development Code, the front and street-side yard setback areas shall also be landscaped using xeriscape landscaping techniques, which combines drought tolerant plant and hardscape materials in a variety of aesthetically pleasing designs. The proposed project landscaping is required to comply with the California Model Water Efficiency Landscape Ordinance (MWELO). The proposed project therefore conforms to the requirements in the Town's Development Code.

H. That quality in architectural design is maintained in order to enhance the visual environment of the Town and to protect the economic value of existing structures;

The structures are consistent with the Development Code, surrounding developments, and other similar land uses.

I. That there are existing public facilities, services, and utilities available at the appropriate levels and/or that new or expanded facilities, services and utilities shall be required to be installed at the appropriate time to serve the project as they are needed;

The project is located in an area of developed industrial properties. Each utility provider charges connection and service fees which are designed to include the need for additional facilities as growth occurs. The project applicant will be required to pay these fees as applicable.

Electrical services are provided by Southern California Edison. Water services are provided by the Hi Desert Water District (HDWD). Solid Waste Services are provided by Burrtec, Inc. The Town of Yucca Valley requires mandatory solid waste services, and the project will be served by Burrtec.

J. That access to the site and circulation on and off-site is required to be safe and convenient for pedestrians, bicyclists, equestrians and motorists;

On-site circulation as proposed includes two points of ingress/egress on Newton Lane. ADA access is required to be provided to the public right-of-way and from the vehicle parking lot to the structures. The installation of off-site improvements, in the form of paved roadways and sidewalks, are anticipated to enhance convenience for both motor vehicles and other roadway users such as pedestrians and cyclists.

K. That traffic generated from the proposed project has been sufficiently addressed and mitigated and will not adversely impact the capacity and physical character of surrounding streets;

The traffic analysis for the proposed project identified up to 137 daily vehicle trips at full build-out. Based on the anticipated traffic generation, adverse traffic impacts are not anticipated with the construction of required roadway improvements.

L. That traffic improvements and/or mitigation measures have been applied or required in a manner adequate to maintain a Level of Service C or better on arterial roads, where applicable, and are consistent with the Circulation Element of the Town General Plan;

The traffic analysis and IS/MND for the proposed project identified up to 137 daily vehicle trips. Based on the traffic analysis and required roadway improvements, no significant traffic impacts were identified and mitigation measures are not required.

M. That there will not be significant harmful effects upon environmental quality and natural resources including endangered, threatened, rare species, their habitat, including but not limited to plants, fish, insects, animals, birds or reptiles;

The IS/MND identified potentially significant environmental impacts to Biological Resources. Mitigation measures are incorporated in the IS/MND to mitigate those potentially significant impacts to a level considered less than significant with mitigation incorporated. Please see attached IS/MND for a detailed analysis of potential biological impacts and required mitigation measures.

N. That there are no other relevant or anticipated negative impacts of the proposed use that cannot be mitigated and reduced to a level of non-significance in conformance with CEQA, the California Environmental Quality Act;

An Initial Study/Mitigated Negative Declaration (IS/MND) was prepared for the proposed project pursuant to the California Code of Regulations, Title 14, Sections 15072 and 15105.

The IS/MND identified potentially significant environmental impacts to the following resource areas: Biological Resources, Cultural Resources, Geology/Soils, Noise, Tribal Cultural Resources, and Mandatory Findings of Significance. Mitigation measures are incorporated to mitigate those potentially significant impacts to a level considered less than significant with mitigation incorporated. Please see attached IS/MND for a detailed analysis of potential impacts and required mitigation measures.

O. That the impacts which could result from the proposed development, and the proposed location, size, design and operating characteristics of the proposed development, and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety and welfare of the community or be materially injurious to properties or improvements in the vicinity or be contrary to the adopted General Plan;

An Initial Study/Mitigated Negative Declaration (IS/MND) was prepared for the proposed project pursuant to the California Code of Regulations, Title 14, Sections 15072 and 15105.

The IS/MND identified potentially significant environmental impacts to the following resource areas: Biological Resources, Cultural Resources, Geology/Soils, Noise, Tribal Cultural Resources, and Mandatory Findings of Significance. Mitigation measures are incorporated to mitigate those potentially significant impacts to a level considered less than significant with mitigation incorporated. Please see attached IS/MND for a detailed analysis of potential impacts and required mitigation measures.

P. That the proposed development will comply with each of the applicable provisions of this code, and applicable Town policies; except approved variances.

The project, as conditioned, complies with the standards and requirements of the Development Code and the policies and procedures of the Yucca Valley General

Plan.

Alternatives

None.

Fiscal Impact:

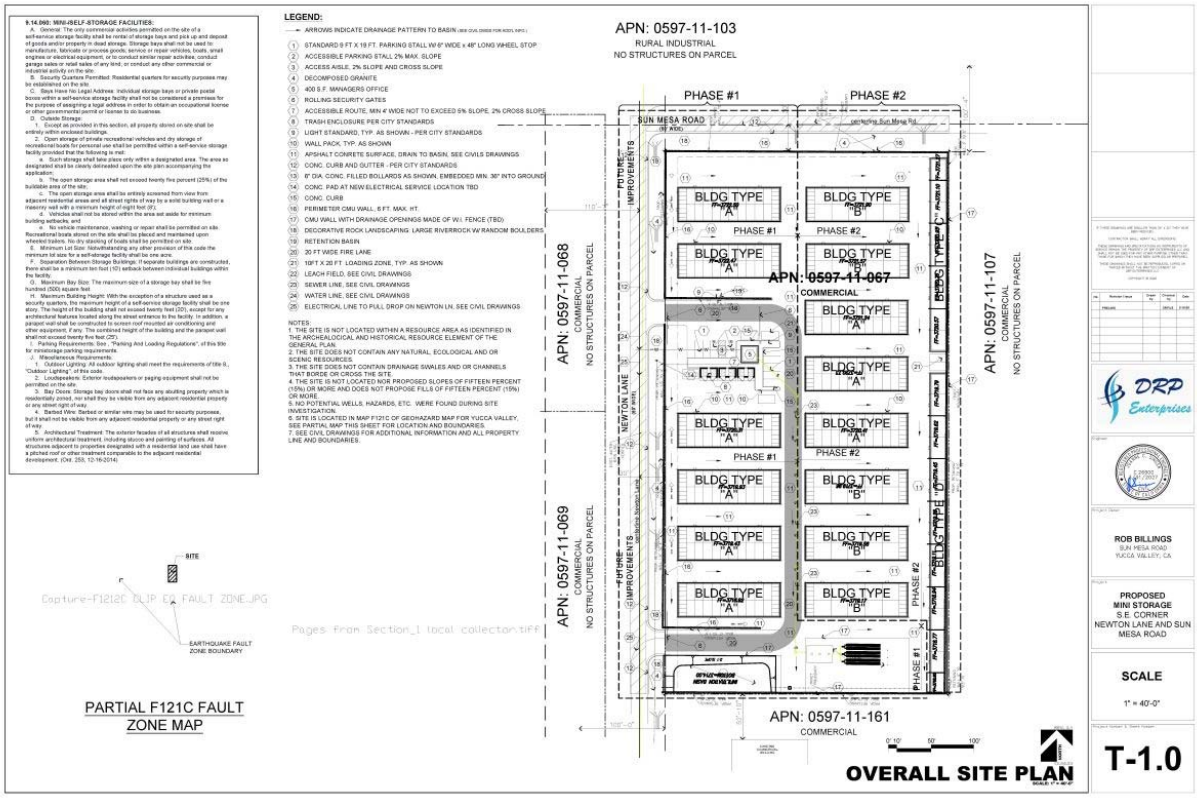
None.

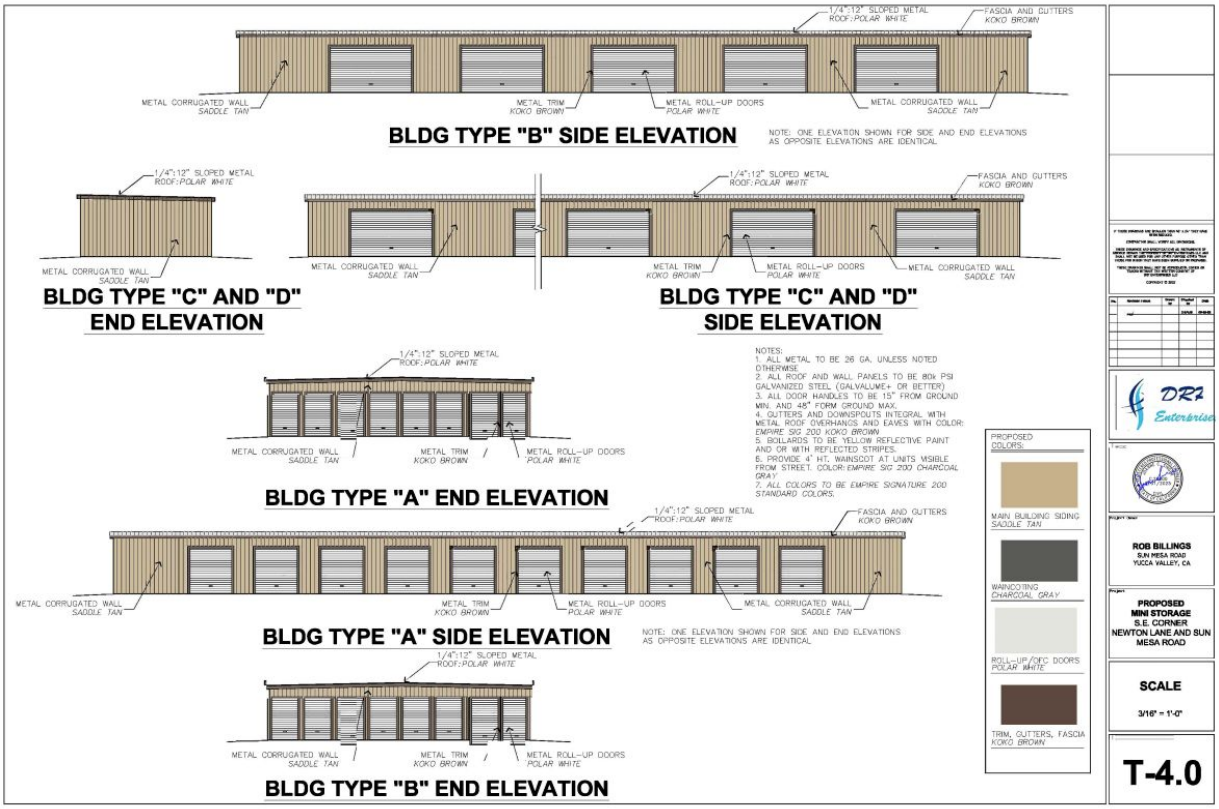
Attachments

1. Draft COA SPR 07-23 Sun Mesa Mini Storage 4-14-2026
2. 1 - Application
3. 2 - Project Description
4. 3 - Cover Sheet
5. 4 - Site Plan
6. 4 - Revised Site Plan 3-18-2026
7. 5 - Floor Plan
8. 6 - Elevations, Renderings, and Materials
9. 7 - Preliminary Landscape Plan
10. 8 - Native Plant Removals and Relocations Inventory Reduced
11. 9 - Lighting Plan, Photometric Plan, and Details
12. 10 - Utility Plan
13. 11 - Preliminary Grading Plan
14. 11 - Revised Preliminary Grading Plan 3-18-2026
15. EA 18-23 Sun Mesa Storage - IS-MND - MMRP
16. Responses to Comments_20260224
17. Surrounding Property Owners Comments of Opposition to Project - 2026
18. Sun Mesa NOI_2026-01-16
19. EA 18-23 Resolution
20. EA 18-23 Sun Mesa Storage - IS-MND - Appendices - Reduced Size

TOWN OF YUCCA VALLEY
CONDITIONS OF APPROVAL
ENVIRONMENTAL ASSESSMENT, EA 18-23
SITE PLAN REVIEW, SPR 07-23
SUN MESA MINI STORAGE

A request for the construction and development of an approximate 79,600 square foot multi-structure self-storage facility that is 9'6" in height, located on approximately 4.34 acre property, with parking, landscaping, and drainage improvements. Phase 1 of the project is located approximately on the western half of the property and Phase 2 is located on the eastern half of the property. The project is located at 4815 Newton Lane, southeast corner of the intersection of Sun Mesa Drive and Newton Lane, and is also identified as APN: 0597-111-67.





GENERAL CONDITIONS

G1. The applicant shall agree to defend, indemnify and hold harmless the Town of Yucca Valley, its agents, officers and employees, at his sole expense, against any action, claim or proceedings brought against the Town or its agents, officers or employees, to attack, set aside, void, or annul this approval or because of the issuance of such approval, or in the alternative, to relinquish such approval, in compliance with the Town of Yucca Valley Development Code. The applicant shall reimburse the Town, its agents, officers, or employees for any court costs, and attorney's fees which the Town, its agents, officers or employees may be required by a court to pay as a result of such action. The Town may, at its sole discretion, participate at its own expense in the defense of any such action but such participation shall not relieve applicant of his obligations under this condition. The Town shall promptly notify the applicant of any claim, action or proceeding arising from the Town's approval of this project, and the Town shall cooperate in the defense.

Applicant Initials_____

G2. This Conditional Use Permit shall become null and void if construction has not commenced within three (3) years of the Town of Yucca Valley date of approval. Extensions of time may be granted by the Planning Commission, in conformance with the Town of Yucca Valley Development Code. The applicant is responsible for the initiation of an extension request.

Approval Date: April 14, 2026
Expiration Date: April 14, 2029

G3. The applicant shall ascertain and comply with requirements of all State, County, Town and local agencies as are applicable to the project. These include, but are not limited to, County of San Bernardino Environmental Health Services, County of San Bernardino Transportation/Flood Control, County of San Bernardino Fire Department, Yucca Valley Building and Safety, Caltrans, High Desert Water District, Airport Land Use Commission, California Regional Water Quality Control Board, Colorado River Region, the Federal Emergency Management Agency, MDAQMD-Mojave Desert Air Quality Management District, Community Development, Engineering, and all other Town Departments.

G4. All conditions are continuing conditions. Failure of the applicant to comply with any or all of said conditions at any time may result in the revocation of any construction permits for the project.

G5. No on-site or off-site work shall commence without obtaining the appropriate permits for the work required by the Town and the appropriate utilities. The approved permits shall be readily available on the job site for inspection by Town personnel.

G6. The applicant shall pay all fees charged by the Town as required for application processing, plan checking, construction and/or inspections. The fee amounts shall be those which are applicable and in effect at the time work is undertaken and accomplished. Fees for entitlement prior to construction permits are based on estimated costs for similar projects. Additional fees may be incurred, depending upon the specific project. If additional fees for services are incurred, they must be paid prior to any further processing, consideration, or approval(s).

G7. One (1) representative for the project applicant shall coordinate and submit all permit applications required by the Town as appropriate. Multiple representatives submitting permit applications are highly discouraged.

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Applicant Initials_____

G8. All improvements shall be inspected by the Town as appropriate. Any work completed without proper inspection may be subject to removal and replacement under proper inspection.

G9. All refuse shall be removed from the premises in conformance with Town of Yucca Valley Municipal Code Chapter 8.03, Construction Site Maintenance and Trash Containment.

G10. During construction, the Applicant shall be responsible to sweep public paved roads adjacent to the project as necessary and as requested by the Town to eliminate any site related dirt and debris within the roadways. During business activities, the applicant shall keep the public right-of-way adjacent to the property in a clean and sanitary condition.

G11. No staging of construction equipment or parking of worker's vehicles shall be allowed within the public right-of-way of streets or other public improvements that have been accepted into the Town's maintained system

G12. All existing street and property monuments within or abutting this project site shall be preserved consistent with AB 1414. If during construction of onsite or offsite improvements monuments are damaged or destroyed, the applicant shall retain a qualified licensed land surveyor or civil engineer to reset those monuments per Town Standards and file the necessary information with the County Recorder's office as required by law (AB 1414).

G13. Each phase of the project shall function independently of all other phases. All improvements shall be completed for each phase to ensure that each phase functions separate from the remainder of the project, and shall include, but not be limited to, street improvements, drainage and retention/detention facilities, water delivery systems, fire suppressions systems, post construction erosion and sediment control systems, all utilities necessary to serve the project, and those improvements deemed necessary by the Town. All phasing plans shall be illustrated on rough and precise grading plans, erosion and sediment control plans, all plan required for obtaining native plant plan approval, and on any other plan as deemed necessary by the Town.

G14. At the time of permit issuance the applicant shall be responsible for the payment of fees associated with electronic file storage of documents

G15. The Applicant shall reimburse the Town for the Town's costs incurred in monitoring the developer's compliance with the Conditions of Approval including, but not limited to, inspections and review of developer's operations and activities for compliance with all applicable dust and noise operations. This condition of approval is supplemental and in

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addition to normal building permit and public improvement permits that may be required pursuant to the Yucca Valley Municipal Code.

G16. Prior to the issuance of a Certificate of Occupancy for any habitable structure in each phase of the project, all improvements shall be constructed, final inspection performed, punch-list items completed, and all installations approved by the appropriate agency.

G17. After final plan check by the Town, original mylars (4 mil) shall be submitted to the Town for signature by the Town Engineer. All original mylars submitted for Town Engineer's signature must contain the design engineer's wet signature and stamp and all other required signatures.

G18. For any import or export of material, the Project proponent shall provide the following for review by the Town Engineer: the route of travel, number of trucks, daily schedule, and length of time required. No hauling of material shall begin without the Town Engineer's approval.

G19. Prior to any work being performed within the public right-of-way, the Project proponent shall provide the name, address, telephone, facsimile number, and e-mail address of the Contractor to perform the work. A description of the location, purpose, method of construction, and surface and subsurface area of the proposed work shall be supplied. A plat showing the proposed location and dimensions of the excavation and the facilities to be installed, maintained, or repaired in connection with the excavation, shall be provided and such other details as may be required by the Town Engineer.

G20. The site shall be developed in accordance with the approved plans on file with the Town of Yucca Valley, in accordance with the Conditions of Approval approved for the project, and in accordance with the General Plan and Development Code. Prior to any use of the project site or business activity being commenced thereon, all Conditions of Approval shall be completed to the satisfaction of the Town.

G21. Prior to issuances of building permits, all site plans, grading plans, landscape and irrigation plans, drainage/flood control plans, public improvement plans, erosion and sediment control plans, shall be coordinated for consistency with this approval.

G22. The Town may allow phased constructed of the project provided that the improvements necessary to adequately serve or mitigate the impacts of each phase of development are completed prior to the issuance of a Certificate of Occupancy for that phase.

G23. The applicant or the applicant's successor-in-interest shall be responsible for maintaining any undeveloped portion of the site in a manner that provides for the control of weeds, erosion and dust.

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Applicant Initials_____

G24. If archaeological, paleontological or historical resources are uncovered during excavation or construction activities at the project site, work in the affected area will cease immediately and a qualified person with appropriate expertise shall be consulted by the applicant regarding mitigation measures to preserve or record the find. Recommendations by the consultant shall be implemented as deemed necessary and feasible by the Town before work commences in the affected area. If human remains are discovered, work in the affected area shall cease immediately and the County Coroner shall be notified. If it is determined that the remains might be those of a Native American, the California Native American Heritage Commission shall be notified and appropriate measures provided by State law shall be implemented.

G25. All street dedications shall be irrevocably offered to the public and shall continue in force until the Town accepts or abandons such offers. All dedications shall be free of all encumbrances as approved by the Town Engineer.

G26. The street design and circulation pattern of this project shall be coordinated with adjoining developments.

G27. The final conditions of approval issued by the approving authority shall be photographically or electronically placed on bond (blue/black line) paper and included in the Grading and Street Improvement plan sets on 24" x 36" bond (blue/ black line) paper and submitted with the plans for plan check. These conditions of approval shall become part of these plan sets and the approved plans shall be available in the field and during construction. Plan check fees shall not be charged for sheets containing the Conditions of Approval.

G28. Prior to issuance of a certificate of occupancy, the applicant shall submit all improvement plans on compact disks in digital format acceptable to the Town Engineer.

G29. Violations of any condition or restriction or prohibition set forth in these conditions, including all approved construction plans, public and private, for this project and subject to the Town's overall project approval and these conditions of approval, shall subject the owner, applicant, developer or contractor(s) to the remedies as noted in the Municipal Code. In addition, the Town Engineer or Building Official may suspend all construction related activities for violation of any condition, restriction or prohibition set forth in these conditions until such time as it has been determined that all operations and activities are in conformance with these conditions.

G30. After commencement of business operations, the applicant shall be responsible for daily removal of all windblown trash and debris and shall maintain the property in a clean condition.

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Applicant Initials_____

G31. A bicycle parking and locking rack, for a minimum of three (3) bicycles, shall be placed on site in close proximity to building access.

PLANNING CONDITIONS

P1. All mitigation measures identified in the Initial Study/Mitigated Negative Declaration and included in the Mitigation Monitoring and Reporting Program are included as conditions of approval by this reference.

P2. This approval does not include signage. The signage for the project shall be approved by the Planning Commission prior to issuance of any permits.

P3. Utilities shall be underground in conformance with Ordinance 233, or as amended by Town Council.

P4. All exterior lighting shall comply with Development Code chapter 8.70, Outdoor Lighting and shall be illustrated on all construction plans. The proposed project shall cause no light trespass at all property lines. Light trespass shall be defined as exceeding 0.3 foot candles at any property lines.

P5. Prior to the issuance of any permits the applicant/owner shall provide three (3) copies of a landscape and irrigation plan showing the size, type and location of all plant and irrigation systems. Said irrigation system shall incorporate a permanent automatic irrigation system, and all landscaping and irrigation systems shall be maintained in good condition at all times. All ground within proposed landscape planter areas shall be provided with approved ground cover. This shall include but not be limited to drought-tolerant plant materials or colored desert rock.

P6. Parking and on-site circulation requirements shall be provided and maintained as identified on the approved site plan. Areas reserved for access drive and/or fire lanes shall be clearly designated.

a. All paved parking stalls shall be clearly striped and permanently maintained with double or hairpin lines with the two lines being located an equal 9 inches on either side of the stall sidelines. All regular parking stalls be a minimum 9’ x 19’.

b. All marking to include parking spaces, directional designation, no parking designation and fire lane designations shall be clearly defined and said marking shall be maintained in good condition at all times. The Town Traffic Engineer shall approve all signage and markings for the circulation related signage.

c. All two-way drive aisles shall be at least 26 feet in width.

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Applicant Initials_____

P7. Applicant shall construct a trash enclosure in compliance with Ordinance 42 of the Town's Development Code.

P8. All roof top mechanical equipment shall be screened from ground and street vistas. This information shall be included on the building plan submittal.

P9. Pursuant to Ordinance 156, Sign Regulations, wall signs are based upon one square foot of signage per one linear foot of lease space oriented towards a street, parking lot or alley. Freestanding signs are based upon one square foot of signage per five linear feet of property frontage.

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Applicant Initials_____

ENGINEERING CONDITIONS

E1. **Install asphalt concrete (AC) pavement, curb and gutter and sidewalk, along with any additional required AC pavement, along the project frontages on Newton Lane and Sun Mesa Drive per Town Standard Drawing No. 101. Driveways shall be constructed per Town Standard Drawing No. 213. Pavement shall be twenty-six feet (26') wide when measured from curb face. This will require paving six feet (6') on the other side of the street centerline. Pavement on Newton Lane shall extend to Buena Vista Avenue.**

E2. **Per Town Standard Drawing No. 213 commercial driveways shall be located 150 feet from the curb return.**

E3. **The site plan shall be revised to show the existing twenty foot (20') radius property line at the southeast corner of Newton Lane. and Sun Mesa Drive.**

E4. **The on-site retention basin shall be sized to retain the incremental difference between the existing conditions and the proposed conditions, plus an additional ten percent (10%). The on-site volume calculations shall be based upon the San Bernardino County Flood Control District hydrology manual, synthetic unit hydrograph method. The storm event used shall be the 100-year worst case storm.**

E5. **Due to the location of the proposed on-site retention basin an overflow outlet will be required. The outlet shall be designed, and the design included in the project grading plan, to ensure protection of the outlet and the retaining wall footing.**

E6. **There appears to be a thirty foot (30') error in the property line dimensions when scaled from the drawings submitted for review. This error must be corrected to the satisfaction of the Town Engineer. This may require a Record of Survey be recorded with the County Surveyor's office. A copy of the Record of Survey, if required, shall be submitted to the Town Engineer at the time of submittal to the County Surveyor's office.**

E7. **The applicant shall ensure that all construction related to the proposed retaining walls and basin overflow facilities occurs on the applicant's property. Proof of any temporary construction easements, if needed, shall be submitted to the Town at the time of grading permit application.**

E8. **Prior to issuance of building permits, the applicant shall cause to be formed Community Facilities District (CFD) for infrastructure improvements as required by the Town. The applicant shall initiate the CFD formation by submitting a landowner**

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petition and consent form and deposit necessary fees concurrent with the application for street and grading plan review and approval.

E9. During construction, the Contractor shall be responsible to sweep public paved roads adjacent to the project as necessary and as requested by the Town staff to eliminate any site related dirt and debris within the roadways. During his business activities, the Applicant shall keep the public right-of-way adjacent to his property in a clean and sanitary condition.

E10. No staging of construction equipment or parking of worker's vehicles shall be allowed within the public right-of-way.

E11. Utility undergrounding shall be required for all new Service and Distribution lines that provide direct service to the property being developed; existing Service and Distribution lines that are located within the boundaries being developed; existing Service and Distribution lines between the street frontage property line and the centerline of the adjacent streets of the property being developed; existing Service and Distribution lines located along or within 10 feet of the lot lines of the property being developed; or existing Service and Distribution lines being relocated as a result of a project.

E12. Prior to the issuance of a Grading Permit for the site, a Grading Plan prepared by a registered professional Civil Engineer shall be submitted, and the corresponding fees shall be paid to the Town prior to any grading activity. The final Grading Plan shall be reviewed and approved by the Engineering Division prior to issuance of grading permits. The applicant/owner is responsible for all fees incurred by the Town. Prior to Certificate of Occupancy, the Engineer-of-Record shall survey and certify that the site grading was completed in substantial conformance with the approved Grading Plans.

E13. Prior to the issuance of Permits, the Applicant shall comply with the recommendations of a site-specific Geotechnical and Soils Report which shall be reviewed and subject to Town approval. The report shall include recommendations for any onsite and offsite grading, foundations, compaction, structures, drainage, and existence of fault zones. It shall include recommendations for retention basins, slope stability and erosion control.

E14. All recommended approved measures identified in the Soils Report shall be incorporated into the project design.

E15. Developer shall comply with NPDES requirements as applicable. The Applicant shall install devices on his property to keep erodible material, rocks, and gravel on the site. To eliminate any site related dirt and debris within the roadways, the Applicant shall be responsible to sweep public paved roads adjacent to the project as necessary and as requested by the Town Staff.

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Applicant Initials_____

E16. The development of the property shall be in conformance with FEMA and the Town's Floodplain Management Ordinance requirements. Adequate provision shall be made to intercept and conduct the existing tributary drainage flows around or through the site in a manner that will not adversely affect adjacent or downstream properties at the time the site is developed.

E17. No on-site or off-site work shall commence without obtaining the appropriate permits for the work involved from the Town. The approved permits shall be readily available on the job-site for inspection by the Town personnel.

E18. All grading activities shall minimize dust through compliance with AQMD Rule 403.

E19. Prior to issuance of a grading permit, a Fugitive Dust and Erosion Control Plan shall be submitted and approved by the Building Official.

E20. A Notice of Intent to comply with Statewide General Construction Stormwater Permit (Water Quality Order 99-08-DWQ as modified December 2, 2002) is required for the proposed development via the California Regional Water Quality Control Board (phone no. 760-346-7491). A copy of the executed letter issuing a Waste Discharge Identification number shall be provided to the Town prior to issuance of a grading permit.

E21. Prior to any work being performed in the public right-of-way, fees shall be paid and an encroachment permit shall be obtained from the Town. The Applicant shall apply for an encroachment permit from the Town for utility trenching, utility connection, or any other encroachment onto public right-of-way. The Applicant shall be responsible for the associated costs and arrangements with each public utility.

E22. All existing street and property monuments within or abutting this project site shall be preserved consistent with AB 1414. If during construction of onsite or offsite improvements monuments are damaged or destroyed, the Applicant/ Developer shall retain a qualified licensed land surveyor or civil Engineer to reset those monuments per Town Standards and file the necessary information with the County Surveyor's office as required by law (AB 1414).

E23. All improvement plans shall be designed by a Registered Civil Engineer.

E24. The Applicant shall restore any pavement cuts required for installation or extension of utilities for his project within the public right-of-way. In all cases where cuts are allowed, the Applicant is required to patch the cuts to Town standards and the approval of the Town Engineer. The patching shall include a grinding of the pavement to a width 4 feet

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beyond the edge of the trench on each side, or as determined by the Town Engineer, and replacement with a full-depth asphalt concrete recommended by the Soils Engineer.

E25. The Applicant shall construct the replacement of any identified damaged curb and gutter, sidewalk, drive approach, asphalt concrete pavement, meter boxes, and other infrastructure that may be required by the Town Engineer or another Agency.

E26. The Applicant shall install all water and sewer systems required to serve the project. The location of the proposed septic system(s) shall be shown on the project grading plan(s).

E27. The Developer and his Contractor(s) shall observe the construction of this project to make certain that no damage or potential for damage occurs to adjacent roadway, existing improvements, adjacent property and other infrastructure. The Developer shall be responsible for the repair of any damage occurring to offsite infrastructure and/or property damage as determined by the Town Engineer. The Developer shall repair any such damage prior to certificate of occupancy. If the damage is such that it is not repairable within a reasonable amount of time as determined by the Town Engineer, the Developer may petition the Town Engineer for additional conditions that may allow him the time, amount of surety and other requirements to repair the damage.

E28. The Developer and his Contractor(s) shall be responsible for all improvements that he has constructed within the public right-of-way as required by the conditions of approval. The improvements shall be constructed to the standards and requirements as determined and approved by the Town Engineer. Any improvements not considered to be to the required standards shall be replaced by the Developer. The Developer shall be required to maintain and repair those improvements prior to and after acceptance by the Town Council for the length of time required by the applicable conditions, standards and ordinances.

E29. The developer shall reimburse the Town for the Town's costs incurred in monitoring the developer's compliance with the Conditions of Approval including, but not limited to, inspections and review of developer's operations and activities for compliance with all applicable dust and noise operations. This condition of approval is supplemental and in addition to normal building permit and public improvement permits that may be required pursuant to the Yucca Valley Municipal Code.

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BUILDING AND SAFETY CONDITIONS

B1. All construction plans must comply with the most current adopted California Building Codes. Including the 2025 California Wildland Urban Interface Code.

B2. All buildings require sprinklers compliant with the 2025 California Fire Code.

B3. All common areas and designated areas are required to comply with Ch. 11B of the 2025 California Building Code.

B4. All solar and electrical storage means are to comply with the 2025 California Energy Code, 2025 California Green Code and 2025 California Electrical Code.

B5. A pre-construction meeting is to be established and completed after issuance of grading and building permits.

B6. Applicant/developer shall provide plans and obtain the required permits that comply with applicable provisions of the 2025 California Building, Plumbing, Electrical, and Mechanical Codes, the 2025 California Green Building Standards Code, and Title 24 Energy Code, Part 6.

B7. All Plans to be stamped and wet signed by California Licensed Engineer or Architect.

B8. Provide all required ADA access plan (Parking, path of travel, building access, restroom, ADA workspace, etc.) per 2025 CBC.

B9. Obtain San Bernardino County Fire approval for building and site improvements.

B10. Obtain will serve letter from Hi-Desert Water.

B11. Prior to final certificate of occupancy, as required by California State Health and Safety Code Section 19850, the applicant shall provide 1 copy of the stamped approved plans and revisions on CD in PDF format to the Town of Yucca Valley Building and Safety Division to serve as the official file copy of the approved building plans.

B12. Submit 3 complete sets of plans and provide 1 electronic copy of all plans and all calculations at the initial plan review submittal.

I HEREBY CERTIFY THAT THE APPROVED CONDITIONS OF APPROVAL WILL BE SATISFIED PRIOR TO OR AT THE TIMEFRAMES SPECIFIED AS SHOWN ABOVE. I UNDERSTAND THAT FAILURE TO SATISFY ANY ONE OF THESE CONDITIONS WILL PROHIBIT THE ISSUANCE OF ANY PERMIT OR ANY FINAL MAP APPROVAL.

Applicant Initials_____

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Applicant's Signature _____ Date _____

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Applicant Initials_____

Conditional Use Permit Application

Date Received 12 13 2023
By EW
Fee CUP $2,985. & EA $925.
Case # CUP 04-23
EA # 18-23

General Information

APPLICANT Rob Billings Phone 760-686-4171

Mailing Address 5024 Wallaby St Email billingstransfer@yahoo.com

City Yucca Valley State CA Zip 92284

REPRESENTATIVE DRP Enterprises LLC/Dan Patneaude Phone 206-734-7765

Mailing Address PO Box 4428 Email dpatneaude@drpenterprisesllc.org

City Yucca Valley State CA Zip 92263

PROPERTY OWNER Rob Billings Phone 760-686-4171

Mailing Address 5024 Wallaby St Email billingstransfer@yahoo.com

City Yucca Valley State CA1 Zip 92284

Project Information

Project Address TBD Sun Mesa Road Assessor Parcel Number(s) 059711167

Project Location On the SE corner of Sun Mesa Rd and Newton Rd.

Project Description: New Storage Unit Facility with Office Manager Unit. Project is located in the C2 commercial GP zone. Project will have 5 building types with a total of 89,700 SF of proposed storage. Project proposes block wall and lighting, landscape and offsite improvements.

Please attach any additional information that is pertinent to the application.

Town of Yucca Valley
Community Development Department
58928 Business Center Dr
Yucca Valley, CA 92284
760 369-6575 Fax 760 228-0084
www.yucca-valley.org

Environmental Assessment

1. Property boundaries, dimensions and area (also attach an 8 ½ x 11" site plan):
   See APN map - Lot is 302'x614' approx - 4.34 acres. dedications exist north and west
2. Existing site zoning: Commercial
3. Existing General Plan designation: C-Commercial
4. Precisely describe the existing use and condition of the site: Vacant Lot - No Current Use
5. Existing Zoning of adjacent parcels:

   North Rural Inustrial South Commercial East Commercial West Commercial

6. Existing General Plan designation of adjacent parcels:

   North Industrail South Commercial East Commercial West Commercial

7. Precisely describe existing uses adjacent to the site:

   North Vacant - Sun Mesa Rd North - Inustrial

   South Existing site - Commercial Use

   East Vacant - Commercial Zoning - County of SB

   West Existing site - Commercial Use

8. Describe the plant cover found on the site, including the number and type of all protected plants: Joshua trees, and other species, yucca and normal plant material for Yucca Valley on site
   See the report prepared by LSA for all precise info and related info for the WJT

Note: Explain any "Yes" or '"Maybe" responses to questions below. If the information and responses are insufficient or not complete, the application may be determined incomplete and returned to the applicant.

Yes	Maybe	No	
☐	☐	☑	9. Is the Site on filled or slopes of 15% or more or in a canyon? (A geological and/or soils Investigation report is required with this application.)
☐	☐	☑	10. Has the site been surveyed for historical, paleontological or archaeological resources? (If yes, a copy of the survey report is to accompany this application.)
☐	☐	☑	11. Is the site within a resource area as identified in the archaeological and historical resource element?
☐	☐	☑	12. Does the site contain any unique natural, ecological, or scenic resources?
☐	☐	☑	13. Do any drainage swales or channels border or cross the site?
☐	☐	☑	14. Has a traffic study been prepared? (If yes, a copy of the study is to accompany this application.)
☐	☐	☑	15. Is the site in a flood plain? (See appropriate FIRM)

Project Description New Commercial Storage Facility

Complete the items below as they pertain to your project. Attach any other supplemental information that will assist in the review of the proposed project pursuant to CEQA.

1. **Commercial, Industrial, or Institutional Projects:**

   A. Specific type of use proposed: Storage Facility

   B. Gross square footage by each type of use: 89,700 SF storage

   C. Gross square footage and number of floors of each building: 1 floor all buildings
   Build Type varies on SF - See Floor plan layout - Units A through F

   D. Estimate of employment by shift: 1 shift am only - hours 7 am to 6 pm (varies - part time)

   E. Planned outdoor activities: None

2. **Percentage of project site covered by:**

   Paving 42 % Building 48 % Landscaping 8 % Parking 2 %

3. **Maximum height of structures** 9 ft. 6 in for storage - Office 12 ft.

4. **Amount and type of off street parking proposed**: none proposed

5. **How will drainage be accommodated?** South retention lot - 100 year event 24 hours per Town of Yucca Valley requirements - - SB county Hydrology manual

6. **Off-site construction (public or private) required to support this project:**
   Yes, offsite work is needed for access to the lot.

7. **Preliminary grading plan estimate of cut and fill** See exhibit 4970 cut, 4485 fill

8. **Description of project phasing if applicable:** To be determined. Owner to build office space and then units, will build all access for fire. Owner to have 2 phases of site please see phasing on the site plan for locations. All site work would be in phase 1.

9. **Is this project part of a larger project previously reviewed by the Town? If yes, identify the review process and associated project title(s)** No

11. During construction, will the project: (Explain any "yes" or "maybe" responses to questions below – attach extra pages if necessary.)

Yes	Maybe	No		
☑	☐	☐	A.	Emit dust, ash, smoke, fumes or odors?
☐	☐	☑	B.	Alter existing drainage patterns?
☐	☐	☑	C.	Create a substantial demand for energy or water?
☐	☐	☑	D.	Discharge water of poor quality?
☑	☐	☐	E.	Increase noise levels on site or for adjoining areas?
☐	☑	☐	F.	Generate abnormally large amounts of solid waste or litter?
☐	☐	☑	G.	Use, produce, store, or dispose of potentially hazardous materials such as toxic or radioactive substances, flammable or explosives?
☐	☐	☑	H.	Require unusually high demands for such services as police, fire, sewer, schools, water, public recreation, etc.
☐	☐	☑	I.	Displace any residential occupants?

Owner/Applicant Authorization

Applicant/Representative: I/We have reviewed this completed application and the attached material. The information included with this application is true and correct to the best of my/our knowledge. I/We further understand that the Town may not approve the application as submitted, and may set conditions of approval. Further, I/We understand that all documents, maps, reports, etc., submitted with this application are deemed to be public records. This application does not guarantee approval or constitute a building permit application. Additional fees may be required depending on additional administrative costs.

Signature: Robert Billings

Name: Robert Billings

Date: 11-23-2023

Property Owner: I/We certify that I/We are presently the legal owner(s) of the above described property (If the undersigned is different from the legal property owner, a letter of authorization must accompany the form). Further, I/We acknowledge the filing of this application and certify that all of the above information is true and accurate. I/We understand that I/We are responsible for ensuring compliance with conditions of approval. I/We hereby authorize the Town of Yucca Valley and or/its designated agent(s) to enter onto the subject property to confirm the location of existing conditions and proposed improvements including compliance with applicable Town Code Requirements. Further, I/We understand that all documents, maps, reports, etc., submitted with this application are deemed to be public records. This application does not guarantee approval or constitute a building permit application. Additional fees may be required depending on additional administrative costs. I am hereby authorizing Daniel Patneaude, DRP Enterprises LLC to act as my agent and is further authorized to sign any and all documents on my behalf.

Signature: Robert Billings

Name: Robert Billings

Date: 11-23-2023

The Town of Yucca Valley is hereby granted release to copy and reproduce electronically, in whole or in part, drawings and all other materials submitted with this development application including phone numbers, addresses and e-mail addresses, for the Town's regulatory, administrative, and legal functions, including sharing of information with other governmental entities and for compliance with the California Public Records Act (CPRA). If any of these statements cannot be affirmatively acknowledged, please inform the planner before submitting a development application.

Signature: Robert Billings

Name: Robert Billings

Date: 11-23-2023

Agreement to Pay All Development Application Fees

In accordance with Town Council Resolution 04-38 the Town collects certain fees based on the actual cost of providing service. The application deposit for this project (as indicated below) may not cover the total cost of processing this application. I/We are aware that if the account has 25% or less remaining prior to completion of the project, staff will notify the undersigned in writing, of the amount of additional deposit required to complete the processing of the application, based on Staff's reasonable estimate of the hours remaining to complete this application process.

Further, I understand that if I do not submit the required additional deposit to the Town within 15 business days from the date of notification by the Town, the Town will cease processing of the application and/ or not schedule the project for action by the Planning Commission or Town Council until the fees have been paid.

Any remaining deposit will be refunded to me at time of closeout after I have submitted any required approved project plans and forms, including signed conditions of approval, or upon my written request to withdraw the application.

As the applicant, I understand that I am responsible for the cost of processing this application and I agree that the actual costs incurred processing this application will be paid to the Town of Yucca Valley.

Deposit Paid: _____

Applicants Name Robert Billings

Applicant's Signature Robert Billings

Date: 11-23-2023

(Please print)

Conditional Use Permit Application Submittal Requirements

Initial Submittal Requirements	# Required
Completed and Signed Applications and Filing Fee Complete	1
Project Description and Existing Conditions Letter Complete	1
Signed completed Environmental Information form Complete	1
Signed Agreement for Cost Recovery Complete	1
Signed Hazardous Waste Site Statement Complete	1
Preliminary Title Report within 60 days of application date	1
Grant Deeds for all involved properties Yes	1
Site Plan (See Section A) Yes	5
Floor Plans yes	5
Building elevations, including a minimum of one (1) color set	5
Preliminary Grading and Drainage Plan (Section B) Yes	5
Detailed slope analysis if project contains any slopes of 15 percent or greater	5
Preliminary Landscape Plans Yes	5
Native Plant Plan Yes, report prepared from LSA	5
Photometric Plan yes	5
Exterior Lighting Cutsheets Yes	1
Utility Plan including location and capacity Yes	5
Materials Board Yes	1
8 1/2 x 11 reductions of all plans Yes	1
Applicable utility service availability letters Yes	1
Water purveyor service letter or ground water report prepared and signed by a registered civil engineer	1 NA
Signed statement indicating method of sewage disposal and if Regional Water Quality Control Board approval is required	1
Signed surrounding property owners list certification yes	1
Surrounding property owners mailing list and labels yes	2
Surrounding properties radius map showing project site yes	1
Underlying Conditions of Approval (if applicable) NA	1
Copy of underlying Recorded Map and Environmental Constraints Sheet (if applicable)	1 NA
Planned Development Document (if applicable) NA	2
Specific Plan (if applicable) NA	2
All maps, plans, special studies, reports, etc. submitted in hard copy as part of this application are also to be delivered electronically, by CD, flash drive or email at time of submittal.	1
Upon review of the initial submittal, the Town will determine which of the following studies will be required for the project:	
Air Quality and Greenhouse Gas Inventory/Analysis	2
Archaeological Survey	2
Biological Report to include Native Plant Inventory and Focused Desert Tortoise	2
Geological Report, if property is located within an Alquist Priolo zone	2
Geotechnical/Soils Report	2
Hydrology Report prepared by a registered Civil Engineer	2
Noise Study	2
Traffic Study/Analysis prepared by a registered Civil Engineer	2
Please note that each project and each property are unique. Some projects may not require the submittal of each item listed above at time of submittal. Some circumstances may require items not included on the above list. Please contact Planning Staff if you have any questions.	

Plan Preparation and Guidelines

All plans shall be drawn on uniform sheets no less than 24" X 36" (or as approved by the Community Development Department). All plans must be collated, stapled and folded as close as possible to 8 ½" x 11" notebook size. All plans shall be clear, legible and accurately scaled. The site plan, preliminary landscape plan, photometric plan, building elevations and native plant plan should all be at the **same** scale and shall be consistent with each other.

Section A. Site Plan Content

Scale: Engineering scale not to exceed 1"=100'.

The following information shall be included on the plan:

- Data table formatted in the following order:
  - Assessor's Parcel Number(s) (book, page and parcel number)
  - Legal description
  - Existing and proposed zoning designation
  - Existing and proposed General Plan designation
  - Specific Plan identification and land use designation (if applicable)
  - Existing and proposed land use
  - Total Gross Area: square feet and acres
  - Total Net Area: square feet and acres
  - Name of utility purveyors and type of sewage disposal

- Name, address, phone number, and email of applicant, owner and registered civil engineer or licensed surveyor.
- Graphic scale (with bar scale) and north arrow
- North arrow (make top of map north)
- Vicinity map with labeled streets
- Date plan prepared
- Revision block indicating date when plan is revised through the development review process
- Surrounding information for adjoining properties including zoning and land use
- Existing buildings and traveled ways within the proposed project and within 100 feet of the exterior boundaries.
- Property lines, dimensions (metes & bounds) and location of adjoining lot lines.
- The locations, names and existing widths of all highways, streets, or easements within 100 feet of the project boundaries that provide legal access to the property.
- The location of existing wells, cesspools, sewers, culverts, drain pipes, underground structures, or excavated areas within 100 feet of any portion of the project noting thereon whether or not they are to be abandoned, removed, or remain in operation.
- The location of all existing and proposed fire hydrants.
- Location of on-site utilities and locations of existing public utilities including sanitary sewers, water mains and storm drains.

- The approximate location of all areas subject to storm water overflow, inundation or flood hazard (indicate limits of FEMA floodplain and floodway), and the location and direction of flow of each watercourse.
- Delineation of special hazard zones (i.e., earthquake faults, liquefaction zones, etc.).
- If the site is proposed to be developed in phases, the proposed sequence of phasing shall be provided.

Section B. Preliminary Grading Plan Content

Scale: Engineering scale not to exceed 1"=40'.

The following grading information shall be included on the plan:

- Title Block
    - Name, address, phone, and email address of applicant, owner, and engineer
- Legend, north arrow, bar and graphic scale
- Data Table
    - Assessor's Parcel Number(s)
    - Project Name
    - Legal Description (i.e. Tract/Parcel Map and lot(s)/parcel(s))
    - Approximate earthwork quantities (CY), include cut and fill
    - Date and Source of Topography (should be current)

- Preliminary pad elevations
- Minimum 1-foot contour interval
- Drainage facilities
- Existing and proposed easements, property lines, rights-of-way
- Overall cut and fill cubic yards (quantity to be called out on the plan)
- Vicinity map, bar and graphic scale
- Existing and proposed improvements within and 50' beyond the site boundaries (label those proposed to remain or to be removed)
- Shade pavement areas and fill slopes 3:1 or steeper
- Streets; typical cross-sections to show existing and proposed improvements, utilities, right-of-way, etc.
- Limits of FEMA floodplain and floodway
- Delineate open space areas
- Delineation of special hazard zones (i.e., earthquake faults, liquefaction zones, etc.)
- Existing topography at least fifty (50) feet beyond project boundary including natural features to be preserved.
- Proposed street grades with arrows indicating the direction of flow.

Property Owners Mailing List

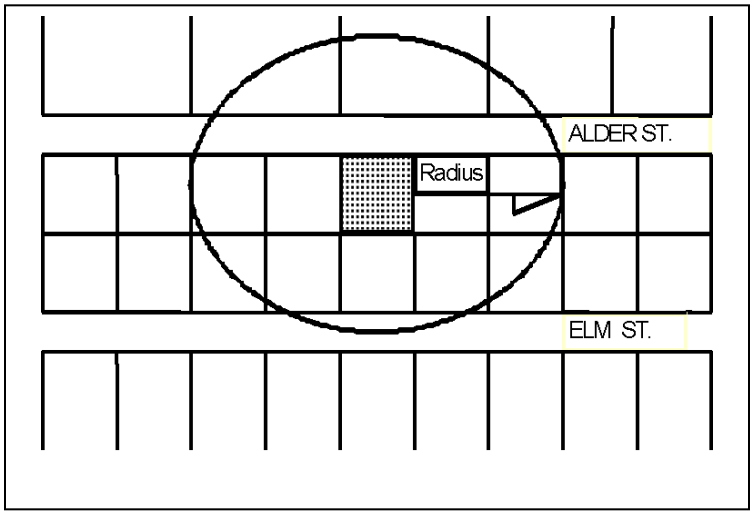
All applications that are subject to a Public Hearing require the applicant to submit a list of property owners who own property contiguous to and within 300 feet of the project site. This process is required by Section 83.010330 of the Development Code to notify residents and property owners in the immediate vicinity. Staff will send public notices to these individuals informing them of the proposed project and scheduled public hearings.

The surrounding property owner information must be obtained from the most current San Bernardino County Assessor's roll or shall be prepared and verified by a title company doing business in San Bernardino County. A County Assessor's office is located at 63665 29 Palms Hwy in Joshua Tree. The general telephone number for the Assessor's office is 760-366-1420.

MATERIALS REQUIRED:

- Two (2) sets of adhesive labels containing the mailing address of the owner(s), applicant(s) and of all surrounding property owners, including vacant properties. Mailing labels must contain: Assessor's Parcel Number, property owners name, address and zip code.
- One (1) copy of the labels sheets.
- One (1) radius map showing the subject property and all surrounding properties. The appropriate radius shall be drawn from the exterior boundaries of the subject property as shown in the sample below. The scale of the radius map shall be large enough to clearly show all surrounding properties.
- One (1) electronic copy of all submitted materials.

Sample Vicinity/Radius Map



SURROUNDING PROPERTY OWNERS LIST CERTIFICATION

(To be submitted with application)

I, Dan Patneaude , certify that on November, 22,2023 the attached property owners list was prepared by Express Mapping pursuant to the requirements of the Town of Yucca Valley. Said list is a complete compilation of the owner(s), applicant(s) and representative of the subject property and all owners of surrounding properties within a radius of 500 feet from all exterior boundaries of the subject property and is based on the latest equalized assessment rolls of the San Bernardino County Assessor's Office dated _____ . I further certify that the information filed is true and correct to the best of my knowledge; I understand that incorrect and erroneous information may be grounds for rejection or denial of the development application.

Signed: Daniel Patneaude

Print Name: Daniel Patneaude Date: 11-23-2023

Developer Disclosure Statement

This portion of the application must be fully completed and signed by the applicant. If not fully completed and signed, the application will be deemed incomplete.

Address of subject property: TBD Subn Mesa Road Yucca Valley CA

Cross street: Sun Mesa Rd and Newton Lane

Date this Disclosure Statement is completed: 11-23-2023

Name of Applicant: Rob Billings

The Applicant is a:

- ☐ Limited Liability Company (LLC)
- ☐ Partnership
- ☐ Corporation
- x None of the above

Information for LLC, Partnership, Corporation

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

State of Registration _____

Managing member(s), General Partner(s) officer(s)

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

Attach additional sheets if necessary

Agent for Service of Process

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

For Corporations, Shareholder with Fifty Percent or More Share or Controlling Shareholder

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

The Owner is a:

Limited Liability Company (LLC)
Partnership
Corporation
x None of the above

Information for LLC, Partnership, Corporation

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

State of Registration _____

Managing member(s), General Partner(s) officer(s)

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

Attach additional sheets if necessary

Agent for Service of Process

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

For Corporations, Shareholder with Fifty Percent or More Share or Controlling Shareholder

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

The Party in escrow is a (if property is in escrow):

Limited Liability Company (LLC)
Partnership
Corporation
X None of the above

Information for LLC, Partnership, Corporation

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

State of Registration _____

Managing member(s), General Partner(s) officer(s)

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

Attach additional sheets if necessary

Agent for Service of Process

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

For Corporations, Shareholder with Fifty Percent or More Share or Controlling Shareholder

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

For any deeds of trust or other liens on the property (other than real property tax liens) please state the following:

A. Name of beneficiary of the deed of trust or lien _____

B. Date of the deed of trust or lien. _____

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed on the date and location set forth below

Robert Billings _____
Signature

Print Name Robert Billings

Title: Owner

Date of signing 11-23-2023

Location: Yucca Valley CA

Hazardous Waste and Substance Sites

Government Code Section 65962.5 requires each applicant for any development project to consult the State List of Hazardous Waste and Substance Sites. Based upon the list, the applicant/representative is required to submit a signed statement to the Town of Yucca Valley indicating whether the project is located on a site which is included on the list before the Town accepts the application as complete. If the project is listed by the State as a hazardous waste or substance site, the applicant must fully describe on the "Environmental Information Form" the nature of the hazard and the potential environmental impact. Attached is a standard statement for the applicant to sign.

The State list of Hazardous Waste and Substance Sites (which is annually updated) may be reviewed at the following web site address:

http://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm

Attachment: Hazardous Waste Site Statement

HAZARDOUS WASTE SITE STATEMENT

I have been informed by the Town of Yucca Valley of my responsibilities, pursuant to California Government Code Section 65962.5, to notify the Town as to whether the site for which a development application has been submitted is located within an area which has been designated as the location of a hazardous waste site by the Office of Planning and Research, State of California (OPR).

I am informed and believe that the proposed site, for which a development application has been submitted, is not within any area specified in said Section 65962.5 as a hazardous waste site.

I declare under penalty of perjury of the laws of the State of California that the foregoing is true and correct.

Dated: 11-23-2023

Robert Billings

Applicant/Representative printed name

Robert Billings

Applicant/Representative signature

Letter of Intent

Applicant: Rob Billings
Mailing Address: 5024 Wallaby Street
Yucca Valley, CA
Phone Number: 760-686-4171

Business Name: NA

Date: 3-26-2025 updated

Primary Contact: Rob Billings - Owner
Dan Patneaude, Representative - Civil

APN(s): 059711167
TR 8749, MB 120/50-64 SEC. 13 T1N, R5E., S,B,B,&M.

If needed, you may attach additional documents to provide more detailed information.

Brief description of proposed use:

Current vacant land - Single Lot 4.34 acres to be used for commercial use C2- SCOPE OF WORK: PROPOSED MINISTORAGE FACILITY WITH ONE MANAGERS OFFICE SPACE. ALL STORAGE TO BE ENCLOSED. NO OPEN STORAGE IS PROPOSED. Property north is zoned rural mixed use SPA - industrial.

Brief Description of proposed location and surrounding properties as they currently exist:

Property directly north abutts the dedication and dirt road of Sun Mesa - Lot empty to the north. Property to the north is zoned industrial Mixed use SPA - Property to the east is zoned Commercial and vacant. Property to the south is built with a commercial use. Property to the west is built with commercial use. This use is fitting for the existing surrounding zoning and uses.

Logistics (Truck trips, hours of business, parking, number of employees, etc.):

The project will have a managers office space and expect to employee roughly one person part time to manage the sales and rental of units and maintenance and upkeep of the grounds as well as private businesses to maintain landscape etc. A total amount of daily trips anticipated will not exceed 45 trips at build out but will be detailed in a traffic analysis report if required.

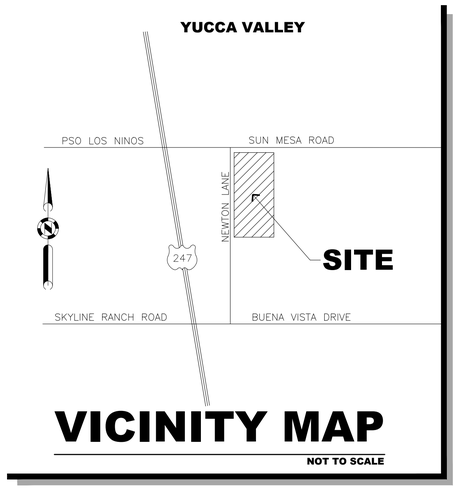
Goals and Objectives:

Build 5 new types of storage units for a total SF of 89,700. The lot will have a manager office unit. Landscape, parking improvements Grading, minor utilities, will include site lighting, security. Offsite improvements as determined by the city engineer and PW conditions.

PROPOSED STORAGE UNIT FACILITY
(MINI SELF STORAGE)
SOUTH-EAST CORNER OF NEWTON LANE AND SUN MESA ROAD
YUCCA VALLEY
SAN BERNARDINO COUNTY, CA

ABREVIATIONS:

AC:	Asphalt Concrete	HB:	Hose Bib
ACT:	Acoustical Ceiling Tile	HC:	Hollow Core
ADA:	Americans with Disablilites Act	HM:	Hollow Metal
ADD:	Additional	HORIZ:	Horizontal
ADJ:	Adjustable	HGT:	Height
AFF:	Above Finish Floor	HTR:	Heater
AHJ:	Authority Having Jurisdiction	HVAC:	Heating, Venting, Air Conditioning
ALUM:	Aluminum		
APPX:	Approximately	IN:	Inch
BD:	Board	INS:	Insulation
BLDG:	Building	INT:	Interior
BLK:	Block	IRR:	Irrigation
BLKG:	Blocking	JAN:	Janitor
BM:	Beam	JT:	Joint Trench
BO:	Bottom Of	LAV:	Lavatory
CALC:	Calculation	LS:	Landscape
CBC:	California Building Code	LTG:	Lighting
CIP:	Cast-In-Place	LVT:	Luxury Vinyl Tile
CJ:	Control Joint	MAX:	Maximum
CMU:	Concrete Masonry Unit	MECH:	Mechanical
CL:	Centerline	MFR:	Manufacturer
CLG:	Ceiling	MIN:	Minimum
CLR:	Clear	MISC:	Miscellaneous
CLO:	Closet	MTL:	Metal
CO:	Clean Out	NIC:	Not In Contract
COL:	Column	NTS:	Not To Scale
CONC:	Concrete	NO:	Number
CONST:	Construction	OC:	On Center
CPT:	Carpet	OD:	Outside Diameter
CT:	Ceramic Tile	OH:	Opposite Hand
DET:	Detail	PC:	Polished Concrete
DG:	Decomposed Granite	PL:	Propery Line
DIA:	Diameter	PLAM:	Plastic Laminate
DN:	Down	PT:	Paint
DR:	Door	PVC:	Polyvinyl Chloride
DWG:	Drawing	QTY:	Quantity
E:	Existing	R:	Radius
EA:	Each	RA:	Return Air
ENC:	Enclosure	RD:	Roof Drain
EJ:	Expansion Joint	RO:	Rough Opening
EL:	Elevation	REQD:	Required
ELEC:	Electrical	RM:	Room
ELEV:	Elevation	REV:	Revision
EQ:	Equal	SC:	Solid Core
EQUIP:	Equipment	SECT:	Section
EV:	Eave Vent	SHT:	Sheet
EXH:	Exhaust	SIM:	Similar
EXP:	Expansion	SPEC:	Specification
EXT:	Exterior	STD:	Standard
FE:	Fire Extinguisher	STL:	Steel
FEC:	Fire Extinguisher Cabinet	SUSP:	Suspended
FD:	Floor Drain	SQ:	Square
FDN:	Foundation	STRUC:	Structural
FIN:	Finish	STOR:	Storage
FLR:	Floor	THK:	Thick
FOF:	Face Of Finish	TEL:	Telephone
FTG:	Footing	TO:	Top Of
FIXT:	Fixture	TYP:	Typical
FR:	Fire-Rated	UNO:	Unless Noted Otherwise
FT:	Feet	VCT:	Vinyl Composition Tile
GA:	Gauge	VERT:	Vertical
GALV:	Galvanized	WD:	Wood
GC:	General Contractor	WC:	Water Closet
GL:	Glass	W/O:	With Out
GWB:	Gypsum Wall Board	WWM:	Welded Wire Mesh
GYP:	Gypsum	WDW:	Window



VICINITY MAP

NOT TO SCALE

LEGAL DESCRIPTION:

TR 8749, MB 120/50-64 SEC. 13, T1N, R5E., S.B.B.&M.
APN: 0597-111-67

BASIS OF BEARING :

THE SOUTHWEST 1/4 OF SECTION 13 PER TRACT 8749, MB 120/50-64 SAID BEARING BEING N00°00'08"E

BENCHMARK :

USGS BM 705 24
ELEVATION = 3718.55 FEET, NAVD 88

EARTHWORK VOLUMES:

TOTAL CUT – 4970 CY
TOTAL FILL – 4485 CY

** SEE EARTHWORK EXHIBIT FOR INFORMATION ON CUT-FILL BY LOCATION MAP.*

UTILITY COMPANIES

UTILITY PROVIDERS
WATER
HIGH DESERT WATER DI STRICT
55439 Twentynine Palms Highway, Yucca Valley, CA (760) 365-8333

SEWER
Private septic disposal

GAS
None applicable

ELECTRICITY
SOUTHERN CALIFORNIA EDISON
6999 Old Woman Springs Rd, Yucca Valley, CA 92284 (800) 655-4555

TELEPHONE
VERIZON CALIFORNIA
295 N Sunris Way, Palm Springs, CA 92262
(760) 778-3610

TV CABLE
TIME WARNER CABLE
73181 Mediterranean Rd, Palm Desert, CA 92211 (760) 674-5404

WASTE DISPOSAL
BURRTEC
4878 Newton Ln, Yucca Valley, CA 92284
(760) 365-2015

OWNER/DEVELOPER

ROB BILLINGS
5024 WALLABY STREET
YUCCA VALLEY CA 92284
760-686-4171
BILLINGSTRANSFER@YAHOO.COM

TOPOGRAPHY:

PREPARED BY:
LSAP CONSULTANTS LLC.
ADDRESS: 14997 MCCARGER RD
DESERT HOT SPRINGS , CA 92240
(760) 288-2232
SURVEY@LSAPCONSULTANTS.COM
DATE OF SURVEY JAN 2022

ENGINEER OF RECORD

DRP ENTERPRISES LLC
Daniel Patneaude
MAILING ADDRESS:
PO Box 4428
Palm Springs, CA 92263
206-734-7765
DPATNEAUDE@DRPENTERPRISESLLC.ORG
WWW.DRPENTERPRISESLLC.ORG

Joanne C. Singer RCE 26900
760-625-7426

DEVELOPMENT STATISTICS
FOR:
BILLINGS MINI STORAGE
S.E.C. NEWTON LANE AND SUN MESA
YUCCA VALLEY, CA

LEGAL DESCRIPTION:	TR 8749, MB 120/50-64 SEC. 13 T1N, R5E., S,B,B,&M.
APN	0597-111-67-0000
TOTAL SITE AREA Gross- Net	189,050 SQ. FT.
Dedications already in place:	4,34 ACRES
ADDRESS:	T.B.D. S.E.C. NEWTON AND SUN MESA, YUCCA VALLEY CA
ZONING: GPLU	C COMMERCIAL
EXISTING AND PROPOSED ZONING	COMMERCIAL
EXISTING AND PROPOSED GPLU	C - COMMERCIAL
EXISTING LAND USE	VACANT LOT
PROPOSED LAND USE	NEW STORAGE UNIT FACILITY (MINI STORAGE)
TYPE OF SEWAGE DISPOSAL	SEPTIC/LEACH FIELD
YUCCA VALLEY GEOHAZARD	MAP F121C (SEE NEXT SHEET FOR MAP)
FEMA	NO IMPACTS
ZONE X	PANEL 06071C8120H 8-28-2008
ZONE X	NO FLOOD DEPTHS OR HAZARDS NOTED OR MAPPED

SCOPE OF WORK: PROPOSED STORAGE UNIT (MINISTORAGE) FACILITY WITH OFFICE MANAGER UNIT. PROJECT TO PROPOSE 5 BUILDING TYPES WITH A TOTAL OF 89,700 S.F. STORAGE. PROJECT PROPOSES BLOCK WALL AND LIGHTING, LANDSCAPE AND OFFSITE IMPROVEMENTS. ALL STORAGE TO BE ENCLOSED. NO OPEN STORAGE IS PROPOSED.

OWNER APPLICANT:
ROB BILLINGS
5024 WALLABY STREET
YUCCA VALLEY, CA 92284
(760) 686-4171
billingstransfer@yahoo.com

REPRESENTATIVE:
DRP ENTERPRISES LLC
DAN PATNEAUDE
P.O. BOX 4428
PALM SPRINGS, CA 92263
(206) 734-7765
dpatneaude@drpenterprisesllc.org

PER MUNICODE SEC. 9.10 INDUSTRIAL DISTRICTS

SETBACKS:		MAX. FENCE HT
FRONT:	15'-0"	8'-0" MAX.
REAR:	0'	10'-0" MAX.
SIDE:	0'	10'-0" MAX.
STREET SIDE:	15'-0"	10'-0" MAX.

PER MUNICODE SEC. 9.14.060 MINI/SELF-STORAGE FACILITIES

ALLOWABLE BUILDING HEIGHT:	20'-0" ONE STORY
AREAS:	400 S.F ONE STORY OFFICE/MANAGER UNIT 89,700 S.F STORAGE UNIT TOTAL
FAR: 70% MAX.	89,700 s.f. /220,786 s.f. = 0.406 40.6 % < 70% .: FAR o.k.

TYPES:	**UNIT COUNT:**						
	5X10 50 S.F.	10x20 200 S.F.	20x20 400 S.F.	25x20 500 S.F.	TOTAL S.F. PER BLDG.	NO. BLDG. TYPES	TOTAL S.F. PER BLDG. TYPE
TYPE "A"	16	20	-	-	4,800 S.F.	10	48,000 S.F.
TYPE "B"	16	-	10	-	4,800 S.F.	6	28,800 S.F.
TYPE "C"	-	-	-	10	5,000 S.F.	1	5,000 S.F.
TYPE "D"	-	-	-	15	7,500 S.F.	1	7,500 S.F.
TYPE "E"	-	-	1	-	400 S.F.	1	400 S.F.
TOTAL UNITS	256	200	60 MGR. UNIT NOT INCL.	25		TOTAL S.F.	89,700 S.F.

PARKING REQUIREMENTS:

PER MUNICODE SEC. 9.33.040-C, TABLE 3-7	**REQUIRED:**	**PROVIDED:**
MINI/SELF-STORAGE FACILITIES::		
STANDARD 9X19 PARKING STALLS:		
6 SPACES + 2 CARETAKERS	8	8
ACCESSIBLE STALLS:	1 reqd	
STANDARD:	1	1
VAN:	1	1
		10
LOADING SPACES: ONE PER PER 20,000 S.F.		
10 FT X 20 FT:	5	5
TOTAL PARKING ON SITE:	8 REQUIRED	10 PROVIDED

NOTE: ALL PARKING STALLS SHALL BE 9'-0" x 19'-0" MIN. BACKUP-1 WAY ISLES SHALL BE MIN. 12'-0" WIDE, PER CITY STANDARDS. BACKUP-2 WAY ISLES SHALL BE MIN. 25'-0" WIDE, PER CITY STANDARDS.

SHEET INDEX

PAGE #	SHEET NUMBER	
01	C-1.0	COVER SHEET THIS SHEET
02	T-1.0	SITE PLAN
03	T-1.1	ENLARGED SITE PLAN
04	T-1.2	ENLARGED SITE PLAN
05	T-2.0	FLOOR PLANS
06	T-3.0	ELEVATIONS
07	T-4.0	COLOR ELEVATIONS
08	T-4.1	MANAGERS UNIT COLOR ELEVATIONS
09	T-4.2	SAMPLE COLOR PERSPECTIVE ELEVATIONS
10	T-5.0	COLOR BOARDS
11	T-6.0	LANDSCAPE PLAN

IF THESE DRAWINGS ARE SMALLER THAN 36" x 24" THEY HAVE BEEN REDUCED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS.

THESE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF DRP ENTERPRISES LLC AND SHALL NOT BE USED FOR ANY OTHER PURPOSE OTHER THAN THOSE FOR WHICH THEY HAVE BEEN SUPPLIED OR PREPARED.

THESE DRAWINGS SHALL NOT BE REPRODUCED, COPIED OR TRACED WITHOUT THE WRITTEN CONSENT OF DRP ENTERPRISES LLC

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No.	Revision / Issue	Drawn by	Checked by	Date
	PRELIMS		DRP/JS	08-03-22

DRP Enterprises

Engineer

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 40'-0"

Project Number & Sheet Number

C-1.0

9.14.060: MINI-/SELF-STORAGE FACILITIES:

A. General: The only commercial activities permitted on the site of a self-service storage facility shall be rental of storage bays and pick up and deposit of goods and/or property in dead storage. Storage bays shall not be used to: manufacture, fabricate or process goods; service or repair vehicles, boats, small engines or electrical equipment, or to conduct similar repair activities; conduct garage sales or retail sales of any kind; or conduct any other commercial or industrial activity on the site.

B. Security Quarters Permitted: Residential quarters for security purposes may be established on the site.

C. Bays Have No Legal Address: Individual storage bays or private postal boxes within a self-service storage facility shall not be considered a premises for the purpose of assigning a legal address in order to obtain an occupational license or other governmental permit or license to do business.

D. Outside Storage:

1. Except as provided in this section, all property stored on site shall be entirely within enclosed buildings.

2. Open storage of private recreational vehicles and dry storage of recreational boats for personal use shall be permitted within a self-service storage facility provided that the following is met:

a. Such storage shall take place only within a designated area. The area so designated shall be clearly delineated upon the site plan accompanying the application;

b. The open storage area shall not exceed twenty five percent (25%) of the buildable area of the site;

c. The open storage area shall be entirely screened from view from adjacent residential areas and all street rights of way by a solid building wall or a masonry wall with a minimum height of eight feet (8');

d. Vehicles shall not be stored within the area set aside for minimum building setbacks; and

e. No vehicle maintenance, washing or repair shall be permitted on site. Recreational boats stored on the site shall be placed and maintained upon wheeled trailers. No dry stacking of boats shall be permitted on site.

E. Minimum Lot Size: Notwithstanding any other provision of this code the minimum lot size for a self-storage facility shall be one acre.

F. Separation Between Storage Buildings: If separate buildings are constructed, there shall be a minimum ten foot (10') setback between individual buildings within the facility.

G. Maximum Bay Size: The maximum size of a storage bay shall be five hundred (500) square feet.

H. Maximum Building Height: With the exception of a structure used as a security quarters, the maximum height of a self-service storage facility shall be one story. The height of the building shall not exceed twenty feet (20'), except for any architectural features located along the street entrance to the facility. In addition, a parapet wall shall be constructed to screen roof mounted air conditioning and other equipment, if any. The combined height of the building and the parapet wall shall not exceed twenty five feet (25').

I. Parking Requirements: See , "Parking And Loading Regulations", of this title for ministorage parking requirements.

J. Miscellaneous Requirements:

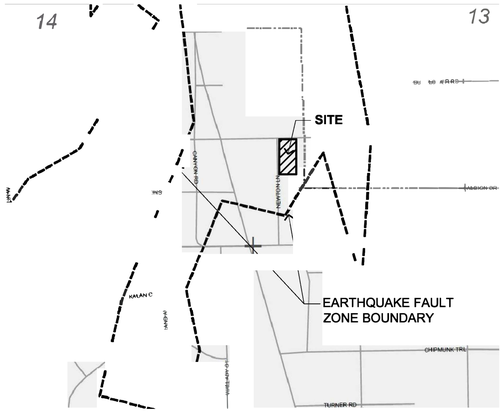
1. Outdoor Lighting: All outdoor lighting shall meet the requirements of title 8,, "Outdoor Lighting", of this code.

2. Loudspeakers: Exterior loudspeakers or paging equipment shall not be permitted on the site.

3. Bay Doors: Storage bay doors shall not face any abutting property which is residentially zoned, nor shall they be visible from any adjacent residential property or any street right of way.

4. Barbed Wire: Barbed or similar wire may be used for security purposes, but it shall not be visible from any adjacent residential property or any street right of way.

5. Architectural Treatment: The exterior facades of all structures shall receive uniform architectural treatment, including stucco and painting of surfaces. All structures adjacent to properties designated with a residential land use shall have a pitched roof or other treatment comparable to the adjacent residential development. (Ord. 253, 12-16-2014)



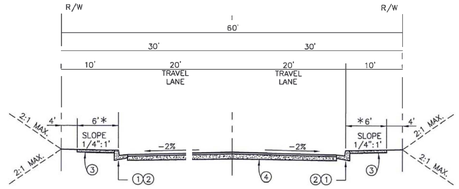
PARTIAL F121C FAULT ZONE MAP

LEGEND:

ARROWS INDICATE DRAINAGE PATTERN TO BASIN (SEE CIVIL DWGS FOR ADD'L INFO.)

1. STANDARD 9 FT X 19 FT. PARKING STALL W/ 6" WIDE x 48" LONG WHEEL STOP
2. ACCESSIBLE PARKING STALL 2% MAX. SLOPE
3. ACCESS AISLE, 2% SLOPE AND CROSS SLOPE
4. DECOMPOSED GRANITE
5. 400 S.F. MANAGER UNIT OFFICE SPACE
6. ROLLING SECURITY GATES
7. ACCESSIBLE ROUTE, MIN 4' WIDE NOT TO EXCEED 5% SLOPE, 2% CROSS SLOPE
8. TRASH ENCLOSURE PER CITY STANDARDS
9. LIGHT STANDARD, TYP. AS SHOWN - PER CITY STANDARDS
10. WALL PACK, TYP. AS SHOWN
11. APSHALT CONRETE SURFACE, DRAIN TO BASIN, SEE CIVILS DRAWINGS
12. CONC. CURB AND GUTTER - PER CITY STANDARDS
13. 6" DIA. CONC. FILLED BOLLARDS AS SHOWN, EMBEDDED MIN. 36" INTO GROUND
14. CONC. PAD AT NEW ELECTRICAL SERVICE LOCATION TBD
15. CONC. CURB
16. PERIMETER CMU WALL, 6 FT. MAX. HT.
17. CMU WALL WITH DRAINAGE OPENINGS MADE OF W.I. FENCE (TBD)
18. DECORATIVE ROCK LANDSCAPING: LARGE RIVERROCK W/ RANDOM BOULDERS
19. RETENTION BASIN
20. 20 FT WIDE FIRE LANE
21. 10FT X 20 FT LOADING ZONE, TYP. AS SHOWN
22. LEACH FIELD, SEE CIVIL DRAWINGS
23. SEWER LINE, SEE CIVIL DRAWINGS
24. WATER LINE, SEE CIVIL DRAWINGS
25. ELECTRICAL LINE TO PULL DROP ON NEWTON LN, SEE CIVIL DRAWINGS

NOTES:
1. THE SITE IS NOT LOCATED WITHIN A RESOURCE AREA AS IDENTIFIED IN THE ARCHEALOCICAL AND HISTORICAL RESOURCE ELEMENT OF THE GENERAL PLAN.
2. THE SITE DOES NOT CONTAIN ANY NATURAL, ECOLOGICAL AND OR SCENIC RESOURCES.
3. THE SITE DOES NOT CONTAIN DRAINAGE SWALES AND OR CHANNELS THAT BORDE OR CROSS THE SITE.
4. THE SITE IS NOT LOCATED NOR PROPOSED SLOPES OF FIFTEEN PERCENT (15%) OR MORE AND DOES NOT PROPOSE FILLS OF FIFTEEN PERCENT (15%) OR MORE.
5. NO POTENTIAL WELLS, HAZARDS, ETC. WERE FOUND DURING SITE INVESTIGATION.
6. SITE IS LOCATED IN MAP F121C OF GEOHAZARD MAP FOR YUCCA VALLEY, SEE PARTIAL MAP THIS SHEET FOR LOCATION AND BOUNDARIES.
7. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND ALL PROPERTY LINE AND BOUNDARIES.



TYPICAL SECTION
LEVEL

TYPICAL SECTION
TILT

NOTES:

1. CURB AND GUTTER PER STD. DWG. NO. 200
2. A.C. DIKE PER STD DWG. NO 202 **
3. SIDEWALK PER STD DWG. NO. 220
4. PAVEMENT SECTION PER STD. DWG. NO. 240

* SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

REGISTERED PROFESSIONAL ENGINEER NOEL ONSLEY No.39827 CIVIL STATE OF CALIFORNIA

APPROVED: DIRECTOR OF PUBLIC WORKS — DATE 11/17/16

APPROVED: TOWN ENGINEER — R.C.E. 39827

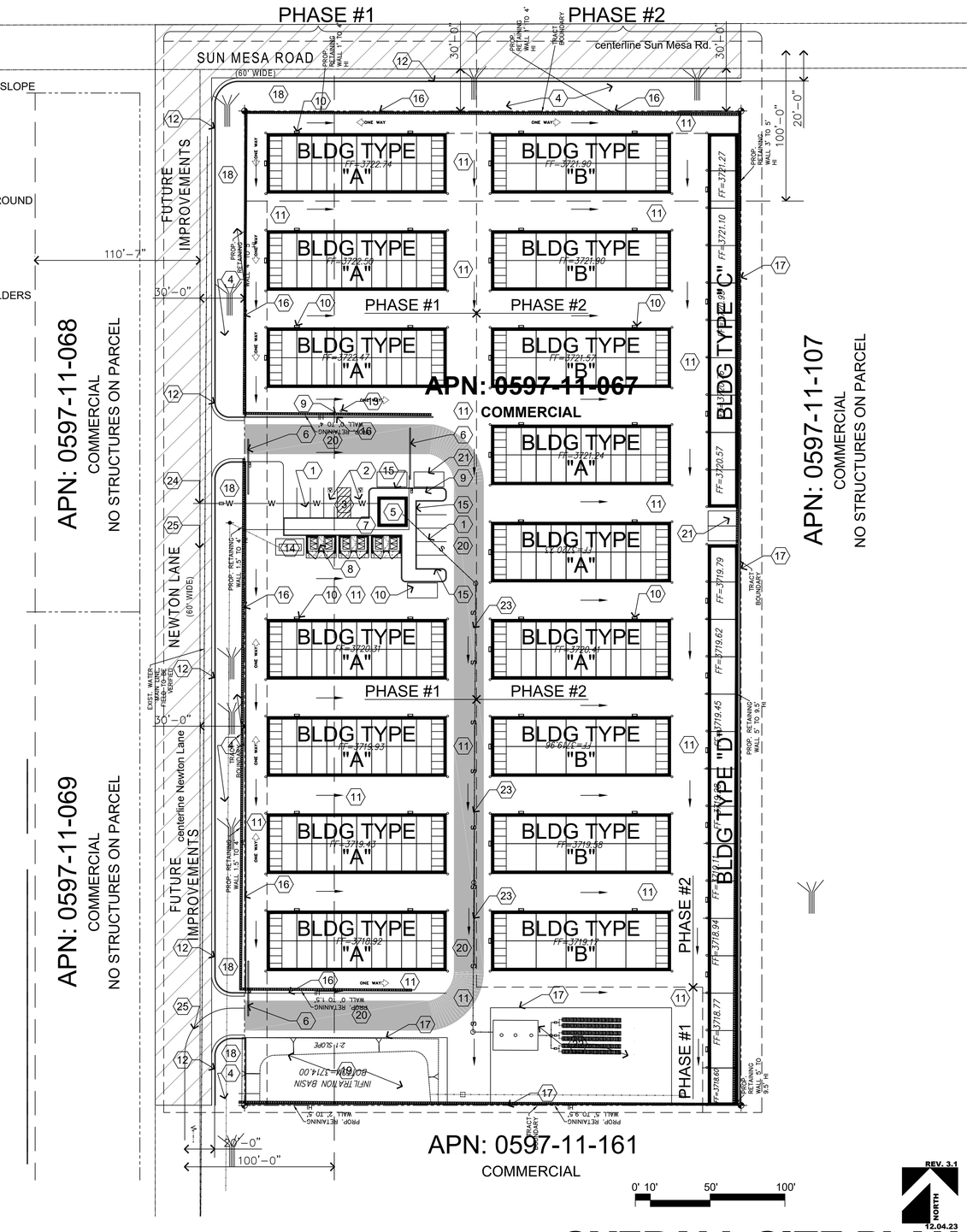
REVISED TO REFLECT CURRENT GENERAL PL. I-N- 8/24/16

REVISION	BY	DATE

Town of Yucca Valley

LOCAL

STANDARD DRAWING NO. 101



REV. 3.1
12.04.23

OVERALL SITE PLAN

SCALE: 1" = 40'-0"

IF THESE DRAWINGS ARE SMALLER THAN 36" x 24" THEY HAVE BEEN REDUCED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS.

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	PRELIMS		DRP/JS	08-03-22

DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER JOANNE C. SINGH C 24000 12/31/2025 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 40'-0"

Project Number & Sheet Number

T-1.0

SUN MESA ROAD
(60' WIDE)

NEWTON LANE
(60' WIDE)

100'–0"

100'–0"

20'–0"

30'–0"

29'–6"

SECURITY GATE

SECURITY GATE

ONE WAY

15'–0"

120'–0"

40'–0"

30'–0"

25'–0"

1 20'–0"

10 – 10'x20'
200 SF UNITS

8 – 5'x10'
50 SF UNITS

5 – 20'x20'
400 SF UNITS

10 – 25'x20'
500 SF UNITS

STD ADA

VAN ADA

400 SF MGR. UNIT

8' HT. W.I. FENCE

TRANSFORMER AND CONC PAD – TBD

TRASH ENCLOSURES

0' 10' 50' 100'

NORTH

REV. 3.1
12.04.23

PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

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DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER
WAYNE E. WARREN
C 24000
03/31/2025
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 20'-0"

Project Number & Sheet Number

T-1.1

0' 10' 50' 100'

NORTH

REV. 3.1
12.04.23

PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

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DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER DIANNE C. SINGLETON C 24000 03/31/2025 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 20'-0"

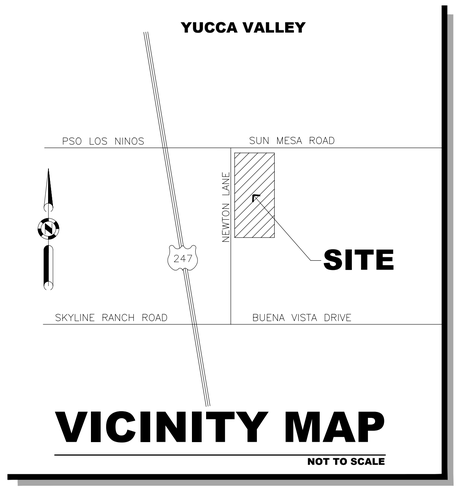
Project Number & Sheet Number

T-1.2

PROPOSED STORAGE UNIT FACILITY
(MINI SELF STORAGE)
SOUTH-EAST CORNER OF NEWTON LANE AND SUN MESA ROAD
YUCCA VALLEY
SAN BERNARDINO COUNTY, CA

ABREVIATIONS:

AC:	Asphalt Concrete	HB:	Hose Bib
ACT:	Acoustical Ceiling Tile	HC:	Hollow Core
ADA:	Americans with Disablilites Act	HM:	Hollow Metal
ADD:	Additional	HORIZ:	Horizontal
ADJ:	Adjustable	HGT:	Height
AFF:	Above Finish Floor	HTR:	Heater
AHJ:	Authority Having Jurisdiction	HVAC:	Heating, Venting, Air Conditioning
ALUM:	Aluminum		
APPX:	Approximately	IN:	Inch
BD:	Board	INS:	Insulation
BLDG:	Building	INT:	Interior
BLK:	Block	IRR:	Irrigation
BLKG:	Blocking	JAN:	Janitor
BM:	Beam	JT:	Joint Trench
BO:	Bottom Of	LAV:	Lavatory
CALC:	Calculation	LS:	Landscape
CBC:	California Building Code	LTG:	Lighting
CIP:	Cast-In-Place	LVT:	Luxury Vinyl Tile
CJ:	Control Joint	MAX:	Maximum
CMU:	Concrete Masonry Unit	MECH:	Mechanical
CL:	Centerline	MFR:	Manufacturer
CLG:	Ceiling	MIN:	Minimum
CLR:	Clear	MISC:	Miscellaneous
CLO:	Closet	MTL:	Metal
CO:	Clean Out	NIC:	Not In Contract
COL:	Column	NTS:	Not To Scale
CONC:	Concrete	NO:	Number
CONST:	Construction	OC:	On Center
CPT:	Carpet	OD:	Outside Diameter
CT:	Ceramic Tile	OH:	Opposite Hand
DET:	Detail	PC:	Polished Concrete
DG:	Decomposed Granite	PL:	Propery Line
DIA:	Diameter	PLAM:	Plastic Laminate
DN:	Down	PT:	Paint
DR:	Door	PVC:	Polyvinyl Chloride
DWG:	Drawing	QTY:	Quantity
E:	Existing	R:	Radius
EA:	Each	RA:	Return Air
ENC:	Enclosure	RD:	Roof Drain
EJ:	Expansion Joint	RO:	Rough Opening
EL:	Elevation	REQD:	Required
ELEC:	Electrical	RM:	Room
ELEV:	Elevation	REV:	Revision
EQ:	Equal	SC:	Solid Core
EQUIP:	Equipment	SECT:	Section
EV:	Eave Vent	SHT:	Sheet
EXH:	Exhaust	SIM:	Similar
EXP:	Expansion	SPEC:	Specification
EXT:	Exterior	STD:	Standard
FE:	Fire Extinguisher	STL:	Steel
FEC:	Fire Extinguisher Cabinet	SUSP:	Suspended
FD:	Floor Drain	SQ:	Square
FDN:	Foundation	STRUC:	Structural
FIN:	Finish	STOR:	Storage
FLR:	Floor	THK:	Thick
FOF:	Face Of Finish	TEL:	Telephone
FTG:	Footing	TO:	Top Of
FIXT:	Fixture	TYP:	Typical
FR:	Fire-Rated	UNO:	Unless Noted Otherwise
FT:	Feet	VCT:	Vinyl Composition Tile
GA:	Gauge	VERT:	Vertical
GALV:	Galvanized	WD:	Wood
GC:	General Contractor	WC:	Water Closet
GL:	Glass	W/O:	With Out
GWB:	Gypsum Wall Board	WWM:	Welded Wire Mesh
GYP:	Gypsum	WDW:	Window



VICINITY MAP

NOT TO SCALE

LEGAL DESCRIPTION:

TR 8749, MB 120/50-64 SEC. 13, T1N, R5E., S.B.B.&M.
APN: 0597-111-67

BASIS OF BEARING :

THE SOUTHWEST 1/4 OF SECTION 13 PER TRACT 8749, MB 120/50-64 SAID BEARING BEING N00°00'08"E

BENCHMARK :

USGS BM 705 24
ELEVATION = 3718.55 FEET, NAVD 88

EARTHWORK VOLUMES:

TOTAL CUT - 4970 CY
TOTAL FILL - 4485 CY

** SEE EARTHWORK EXHIBIT FOR INFORMATION ON CUT-FILL BY LOCATION MAP.*

UTILITY COMPANIES

UTILITY PROVIDERS
WATER
HIGH DESERT WATER DI STRICT
55439 Twentynine Palms Highway, Yucca Valley, CA (760) 365-8333

SEWER
Private septic disposal

GAS
None applicable

ELECTRICITY
SOUTHERN CALIFORNIA EDISON
6999 Old Woman Springs Rd, Yucca Valley, CA 92284 (800) 655-4555

TELEPHONE
VERIZON CALIFORNIA
295 N Sunris Way, Palm Springs, CA 92262
(760) 778-3610

TV CABLE
TIME WARNER CABLE
73181 Mediterranean Rd, Palm Desert, CA 92211 (760) 674-5404

WASTE DISPOSAL
BURRTEC
4878 Newton Ln, Yucca Valley, CA 92284
(760) 365-2015

OWNER/DEVELOPER

ROB BILLINGS
5024 WALLABY STREET
YUCCA VALLEY CA 92284
760-686-4171
BILLINGSTRANSFER@YAHOO.COM

TOPOGRAPHY:

PREPARED BY:
LSAP CONSULTANTS LLC.
ADDRESS: 14997 MCGARGER RD.
DESERT HOT SPRINGS , CA 92240
(760) 288-2232
SURVEY@LSAPCONSULTANTS.COM
DATE OF SURVEY JAN 2022

ENGINEER OF RECORD

DRP ENTERPRISES LLC
Daniel Patneaude
MAILING ADDRESS:
PO Box 4428
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206-734-7765
DPATNEAUDE@DRPENTERPRISESLLC.ORG
WWW.DRPENTERPRISESLLC.ORG

Joanne C. Singer RCE 26900
760-625-7426

DEVELOPMENT STATISTICS
FOR:
BILLINGS MINI STORAGE
S.E.C. NEWTON LANE AND SUN MESA
YUCCA VALLEY, CA

LEGAL DESCRIPTION:	TR 8749, MB 120/50-64 SEC. 13 T1N, R5E., S,B,B,&M.
APN	0597-111-67-0000
TOTAL SITE AREA Gross- Net	189,050 SQ. FT.
Dedications already in place:	4,34 ACRES
ADDRESS:	T.B.D. S.E.C. NEWTON AND SUN MESA, YUCCA VALLEY CA
ZONING: GPLU	C COMMERCIAL
EXISTING AND PROPOSED ZONING	COMMERCIAL
EXISTING AND PROPOSED GPLU	C - COMMERCIAL
EXISTING LAND USE	VACANT LOT
PROPOSED LAND USE	NEW STORAGE UNIT FACILITY (MINI STORAGE)
TYPE OF SEWAGE DISPOSAL	SEPTIC/LEACH FIELD
YUCCA VALLEY GEOHAZARD	MAP F121C (SEE NEXT SHEET FOR MAP)
FEMA	NO IMPACTS
ZONE X	PANEL 06071C8120H 8-28-2008
ZONE X	NO FLOOD DEPTHS OR HAZARDS NOTED OR MAPPED

SCOPE OF WORK: PROPOSED STORAGE UNIT (MINISTORAGE) FACILITY WITH OFFICE MANAGER UNIT. PROJECT TO PROPOSE 5 BUILDING TYPES WITH A TOTAL OF 89,700 S.F. STORAGE. PROJECT PROPOSES BLOCK WALL AND LIGHTING, LANDSCAPE AND OFFSITE IMPROVEMENTS. ALL STORAGE TO BE ENCLOSED. NO OPEN STORAGE IS PROPOSED.

OWNER APPLICANT:
ROB BILLINGS
5024 WALLABY STREET
YUCCA VALLEY, CA 92284
(760) 686-4171
billingstransfer@yahoo.com

REPRESENTATIVE:
DRP ENTERPRISES LLC
DAN PATNEAUDE
P.O. BOX 4428
PALM SPRINGS, CA 92263
(206) 734-7765
dpatneaude@drpenterprisesllc.org

PER MUNICODE SEC. 9.10 INDUSTRIAL DISTRICTS

SETBACKS:		MAX. FENCE HT
FRONT:	15'-0"	8'-0" MAX.
REAR:	0'	10'-0" MAX.
SIDE:	0'	10'-0" MAX.
STREET SIDE:	15'-0"	10'-0" MAX.

PER MUNICODE SEC. 9.14.060 MINI/SELF-STORAGE FACILITIES

ALLOWABLE BUILDING HEIGHT:	20'-0" ONE STORY
AREAS:	400 S.F ONE STORY OFFICE/MANAGER UNIT 79,600 S.F STORAGE UNIT TOTAL
FAR: 70% MAX.	80,000 s.f. /220,786 s.f. = 0.362 36.2 % < 70% .: FAR o.k.

TYPES:	**UNIT COUNT:**						
	5X10 50 S.F.	10x20 200 S.F.	20x20 400 S.F.	25x20 500 S.F.	TOTAL S.F. PER BLDG.	NO. BLDG. TYPES	TOTAL S.F. PER BLDG. TYPE
TYPE "A"	16	20	-	-	4,800 S.F.	9	43,200 S.F.
TYPE "B"	16	-	10	-	4,800 S.F.	5	24,000 S.F.
TYPE "C"	-	-	-	9	4,500 S.F.	1	4,500 S.F.
TYPE "D"	-	-	-	15	7,500 S.F.	1	7,500 S.F.
TYPE "E"	-	-	1	-	400 S.F.	1	400 S.F.
TOTAL UNITS	224	180	50 MGR. UNIT NOT INCL.	24		TOTAL S.F.	79,600 S.F.

PARKING REQUIREMENTS:

PER MUNICODE SEC. 9.33.040-C, TABLE 3-7	**REQUIRED:**	**PROVIDED:**
MINI/SELF-STORAGE FACILITIES::		
STANDARD 9X19 PARKING STALLS:		
6 SPACES + 2 CARETAKERS	8	8
ACCESSIBLE STALLS:	1 reqd	
STANDARD:	1	1
VAN:	1	1
		10
LOADING SPACES: ONE PER PER 20,000 S.F.		
10 FT X 20 FT:	5	5
TOTAL PARKING ON SITE:	8 REQUIRED	10 PROVIDED

NOTE: ALL PARKING STALLS SHALL BE 9'-0" x 19'-0" MIN. BACKUP-1 WAY ISLES SHALL BE MIN. 12'-0" WIDE, PER CITY STANDARDS. BACKUP-2 WAY ISLES SHALL BE MIN. 25'-0" WIDE, PER CITY STANDARDS.

SHEET INDEX

PAGE #	SHEET NUMBER	SHEET INDEX
01	C-1.0	COVER SHEET THIS SHEET
02	T-1.0	SITE PLAN
03	T-1.1	ENLARGED SITE PLAN
04	T-1.2	ENLARGED SITE PLAN
05	T-2.0	FLOOR PLANS
06	T-3.0	ELEVATIONS
07	T-4.0	COLOR ELEVATIONS
08	T-4.1	MANAGERS UNIT COLOR ELEVATIONS
09	T-4.2	SAMPLE COLOR PERSPECTIVE ELEVATIONS
10	T-5.0	COLOR BOARDS
11	T-6.0	LANDSCAPE PLAN

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	PRELIMS		DRP/JS	3-18-26

DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER JOANNE C. SINGER C 26900 6/31/2027 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 40'-0"

Project Number & Sheet Number

C-1.0

9.14.060: MINI-/SELF-STORAGE FACILITIES:

A. General: The only commercial activities permitted on the site of a self-service storage facility shall be rental of storage bays and pick up and deposit of goods and/or property in dead storage. Storage bays shall not be used to: manufacture, fabricate or process goods; service or repair vehicles, boats, small engines or electrical equipment, or to conduct similar repair activities; conduct garage sales or retail sales of any kind; or conduct any other commercial or industrial activity on the site.

B. Security Quarters Permitted: Residential quarters for security purposes may be established on the site.

C. Bays Have No Legal Address: Individual storage bays or private postal boxes within a self-service storage facility shall not be considered a premises for the purpose of assigning a legal address in order to obtain an occupational license or other governmental permit or license to do business.

D. Outside Storage:

1. Except as provided in this section, all property stored on site shall be entirely within enclosed buildings.

2. Open storage of private recreational vehicles and dry storage of recreational boats for personal use shall be permitted within a self-service storage facility provided that the following is met:

a. Such storage shall take place only within a designated area. The area so designated shall be clearly delineated upon the site plan accompanying the application;

b. The open storage area shall not exceed twenty five percent (25%) of the buildable area of the site;

c. The open storage area shall be entirely screened from view from adjacent residential areas and all street rights of way by a solid building wall or a masonry wall with a minimum height of eight feet (8');

d. Vehicles shall not be stored within the area set aside for minimum building setbacks; and

e. No vehicle maintenance, washing or repair shall be permitted on site. Recreational boats stored on the site shall be placed and maintained upon wheeled trailers. No dry stacking of boats shall be permitted on site.

E. Minimum Lot Size: Notwithstanding any other provision of this code the minimum lot size for a self-storage facility shall be one acre.

F. Separation Between Storage Buildings: If separate buildings are constructed, there shall be a minimum ten foot (10') setback between individual buildings within the facility.

G. Maximum Bay Size: The maximum size of a storage bay shall be five hundred (500) square feet.

H. Maximum Building Height: With the exception of a structure used as a security quarters, the maximum height of a self-service storage facility shall be one story. The height of the building shall not exceed twenty feet (20'), except for any architectural features located along the street entrance to the facility. In addition, a parapet wall shall be constructed to screen roof mounted air conditioning and other equipment, if any. The combined height of the building and the parapet wall shall not exceed twenty five feet (25').

I. Parking Requirements: See , "Parking And Loading Regulations", of this title for ministorage parking requirements.

J. Miscellaneous Requirements:

1. Outdoor Lighting: All outdoor lighting shall meet the requirements of title 8,, "Outdoor Lighting", of this code.

2. Loudspeakers: Exterior loudspeakers or paging equipment shall not be permitted on the site.

3. Bay Doors: Storage bay doors shall not face any abutting property which is residentially zoned, nor shall they be visible from any adjacent residential property or any street right of way.

4. Barbed Wire: Barbed or similar wire may be used for security purposes, but it shall not be visible from any adjacent residential property or any street right of way.

5. Architectural Treatment: The exterior facades of all structures shall receive uniform architectural treatment, including stucco and painting of surfaces. All structures adjacent to properties designated with a residential land use shall have a pitched roof or other treatment comparable to the adjacent residential development. (Ord. 253, 12-16-2014)

LEGEND:

ARROWS INDICATE DRAINAGE PATTERN TO BASIN (SEE CIVIL DWGS FOR ADD'L INFO.)

1. STANDARD 9 FT X 19 FT. PARKING STALL W/ 6" WIDE x 48" LONG WHEEL STOP
2. ACCESSIBLE PARKING STALL 2% MAX. SLOPE
3. ACCESS AISLE, 2% SLOPE AND CROSS SLOPE
4. DECOMPOSED GRANITE
5. 400 S.F. MANAGERS OFFICE
6. ROLLING SECURITY GATES
7. ACCESSIBLE ROUTE, MIN 4' WIDE NOT TO EXCEED 5% SLOPE, 2% CROSS SLOPE
8. TRASH ENCLOSURE PER CITY STANDARDS
9. LIGHT STANDARD, TYP. AS SHOWN - PER CITY STANDARDS
10. WALL PACK, TYP. AS SHOWN
11. APSHALT CONRETE SURFACE, DRAIN TO BASIN, SEE CIVILS DRAWINGS
12. CONC. CURB AND GUTTER - PER CITY STANDARDS
13. 6" DIA. CONC. FILLED BOLLARDS AS SHOWN, EMBEDDED MIN. 36" INTO GROUND
14. CONC. PAD AT NEW ELECTRICAL SERVICE LOCATION TBD
15. CONC. CURB
16. PERIMETER CMU WALL, 6 FT. MAX. HT.
17. CMU WALL WITH DRAINAGE OPENINGS MADE OF W.I. FENCE (TBD)
18. DECORATIVE ROCK LANDSCAPING: LARGE RIVERROCK W/ RANDOM BOULDERS
19. RETENTION BASIN
20. 20 FT WIDE FIRE LANE
21. 10FT X 20 FT LOADING ZONE, TYP. AS SHOWN
22. LEACH FIELD, SEE CIVIL DRAWINGS
23. SEWER LINE, SEE CIVIL DRAWINGS
24. WATER LINE, SEE CIVIL DRAWINGS
25. ELECTRICAL LINE TO PULL DROP ON NEWTON LN, SEE CIVIL DRAWINGS

NOTES:
1. THE SITE IS NOT LOCATED WITHIN A RESOURCE AREA AS IDENTIFIED IN THE ARCHEALOCICAL AND HISTORICAL RESOURCE ELEMENT OF THE GENERAL PLAN.
2. THE SITE DOES NOT CONTAIN ANY NATURAL, ECOLOGICAL AND OR SCENIC RESOURCES.
3. THE SITE DOES NOT CONTAIN DRAINAGE SWALES AND OR CHANNELS THAT BORDE OR CROSS THE SITE.
4. THE SITE IS NOT LOCATED NOR PROPOSED SLOPES OF FIFTEEN PERCENT (15%) OR MORE AND DOES NOT PROPOSE FILLS OF FIFTEEN PERCENT (15%) OR MORE.
5. NO POTENTIAL WELLS, HAZARDS, ETC. WERE FOUND DURING SITE INVESTIGATION.
6. SITE IS LOCATED IN MAP F121C OF GEOHAZARD MAP FOR YUCCA VALLEY, SEE PARTIAL MAP THIS SHEET FOR LOCATION AND BOUNDARIES.
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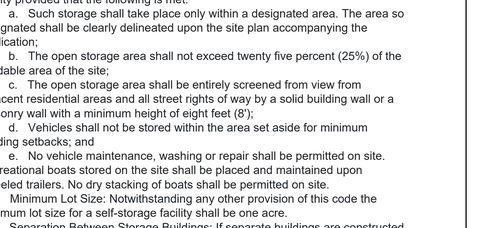
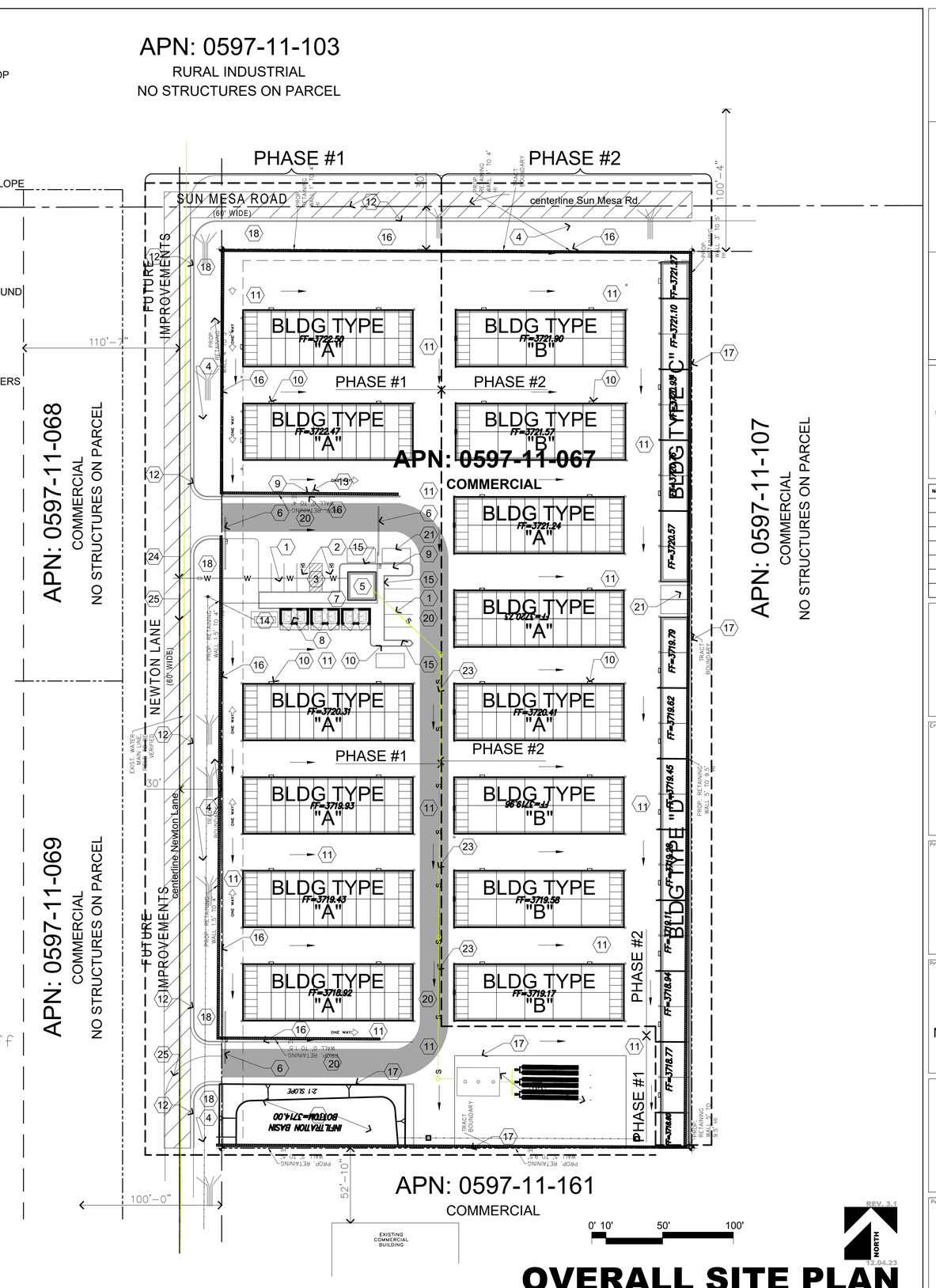


Capture-F1212C CLIP EQ FAULT ZONE.JPG

Pages from Section_1 local collector.tiff

PARTIAL F121C FAULT ZONE MAP



OVERALL SITE PLAN

SCALE: 1" = 40'-0"

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Engineer

REGISTERED PROFESSIONAL ENGINEER JOANNE C. SINGER C 26900 12/31/2027 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 40'-0"

Project Number & Sheet Number

T-1.0

SUN MESA ROAD
(60' WIDE)

FUTURE IMPROVEMENTS NEWTON LANE

APN: 0597-11-068
COMMERCIAL
NO STRUCTURES ON PARCEL

NEWTON LANE
(60' WIDE)

PROP. RETAINING WALL 1' TO 4' HI

PROP. RETAINING WALL 3' TO 5' HI

PROP. RETAINING WALL 0' TO 4' HI

PROP. RETAINING WALL 1.5' TO 4' HI

TRACT BOUNDARY

110'-7"

100'-4"

30'

35'-0"

40'-0"

30'-0"

26'-0"

30'-2"

23'-3"

15'-0"

5'-0"

6'-

120'-0"

10 – 10'x20' 200 SF UNITS
FF=3722.50
10 – 10'x20' 200 SF UNITS

5 – 20'x20' 400 SF UNITS
FF=3721.90
5 – 20'x20' 400 SF UNITS

10 – 10'x20' 200 SF UNITS
FF=3722.47
10 – 10'x20' 200 SF UNITS

5 – 20'x20' 400 SF UNITS
FF=3721.57
5 – 20'x20' 400 SF UNITS

5 – 20'x20' 400 SF UNITS
FF=3721.24
5 – 20'x20' 400 SF UNITS

5 – 20'x20' 400 SF UNITS
FF=3720.73
5 – 20'x20' 400 SF UNITS

10 – 10'x20' 200 SF UNITS
FF=3720.31
10 – 10'x20' 200 SF UNITS

5 – 20'x20' 400 SF UNITS
FF=3720.41
5 – 20'x20' 400 SF UNITS

8 – 5'x10' 50 SF UNITS

ONE WAY

FF=3721.27

FF=3721.10

FF=3720.93
10 – 5'x20' 500 SF UNITS

FF=3720.76

FF=3720.57

FF=3719.79

FF=3719.62

FF=3719.45

EXISTING WATER LINE

SECURITY GATE

STD ADA

VAN ADA

400 SF MGR. UNIT

8' HT. W.I. FENCE

TRANSFORMER AND CONC PAD – TBD

TRASH ENCLOSURES

EXIST. WATER MAIN LINE, FIELD TO BE VERIFIED

0' 10' 50' 100'

NORTH

REV. 3.1
12.04.23

PARTIAL SITE PLAN
SCALE: 1" = 20'-0"

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No.	Revision / Issue	Drawn by	Checked by	Date
	PRELIMS		DRP/JS	3-18-26

DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER
JOANNE C. SINGER
C 26900
12/31/2027
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 20'-0"

Project Number & Sheet Number

T-1.1

APN: 0597-11-069
COMMERCIAL
NO STRUCTURES ON PARCEL

FUTURE
IMPROVEMENTS

NEWTON LANE
(60' WIDE)

EXIST. WATER MAIN LINE, FIELD TO BE VERIFIED

30'

PROP. RETAINING WALL 1.5' TO 4'

TRACT BOUNDARY

PROP. RETAINING WALL 1.5' TO 4'

TRANSFORMER AND CONC PAD – TBD

TRASH ENCLOSURES

ONE WAY

10 – 10'x20' 200 SF UNITS
FF=3720.31
10 – 10'x20' 200 SF UNITS

8 – 5'x10' 50 SF UNITS

5 – 20'x20' 400 SF UNITS
FF=3720.41

FF=3720.73

10 – 10'x20' 200 SF UNITS
FF=3719.93
10 – 10'x20' 200 SF UNITS

5 – 20'x20' 400 SF UNITS
FF=3719.96

10 – 10'x20' 200 SF UNITS
FF=3719.43
10 – 10'x20' 200 SF UNITS

5 – 20'x20' 400 SF UNITS
FF=3719.58

10 – 10'x20' 200 SF UNITS
FF=3718.92
10 – 10'x20' 200 SF UNITS

5 – 20'x20' 400 SF UNITS
FF=3719.17

FF=3719.79
FF=3719.62
FF=3719.45
FF=3719.28
15 – 25'x20' 500 SF UNITS
FF=3719.11
FF=3718.94
FF=3718.77
FF=3718.60

120'–0"
26'
26'–0"
40'–0"
25'–0"
15'–0"
30'–0"
45'–0"

PROP. RETAINING WALL 0' TO 1.5' HI

SECURITY GATE

2:1 SLOPE

INFILTRATION BASIN
BOTTOM=3714.00
MAX. 72HR. RETENTION

TRACT BOUNDARY

LEACH FIELD

PROP. RETAINING WALL 5' TO 9.5' HI

PROP. RETAINING WALL 2' TO 5' HI

PROP. RETAINING WALL 5' TO 9.5' HI

100'–0"

52'–10"

APN: 0597-11-161
COMMERCIAL

EXISTING COMMERCIAL BUILDING

0' 10' 50' 100'

NORTH

REV. 3.1
12.04.23

PARTIAL SITE PLAN
SCALE: 1" = 20'-0"

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C 26900
12/31/2027
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

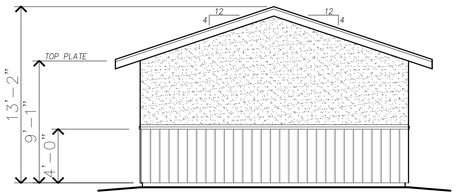
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

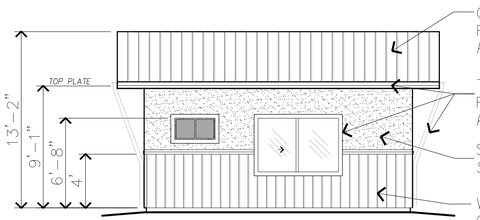
1" = 20'-0"

Project Number & Sheet Number

T-1.2



EAST ELEVATION



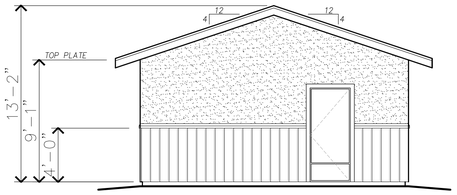
SOUTH ELEVATION

CLASS "A" METAL ROOF COLOR: *POLAR WHITE*

TRIM, GUTTERS, FASCIA: *KOKO BROWN*

STUCCO COLOR: *SADDLE TAN*

WAINCOTING COLOR: *CHARCOAL GRAY*



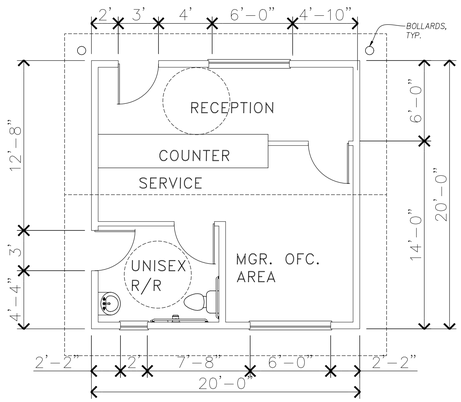
WEST ELEVATION

NORTH ELEVATION

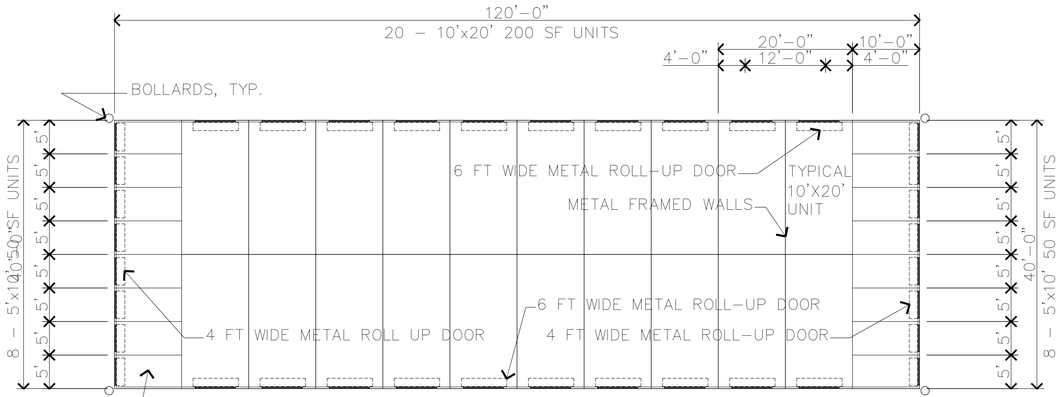
3/16"=1'-0"

ALL COLORS: *EMPIRE SIGNATURE 200 STANDARD COLORS*

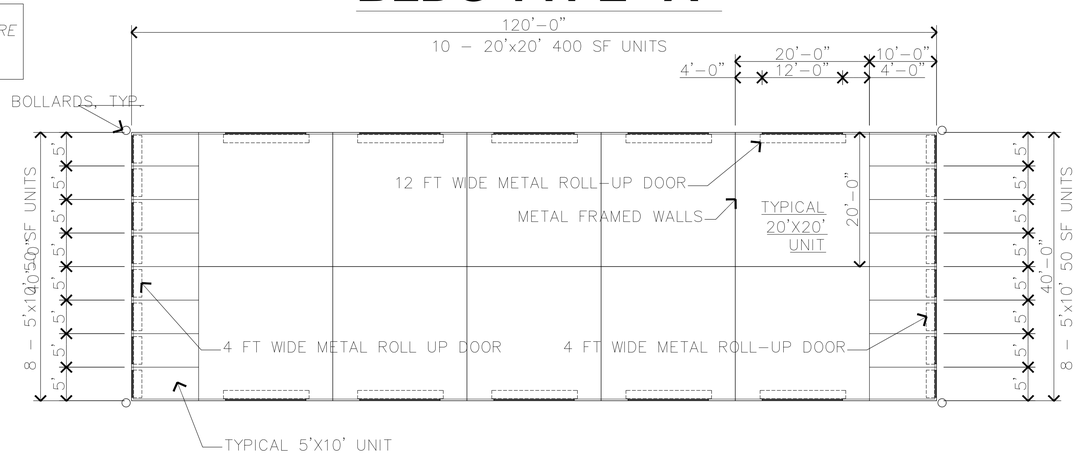
NOTES:
1. CLASS "A" STANDING SEAM METAL ROOF, COLOR POLAR WHITE
2. GUTTERS AND DOWNSPOUTS COLOR: *KOKO BROWN*
3. BOLLARDS TO BE YELLOW REFLECTIVE AND OR WITH REFLECTED STRIPES.



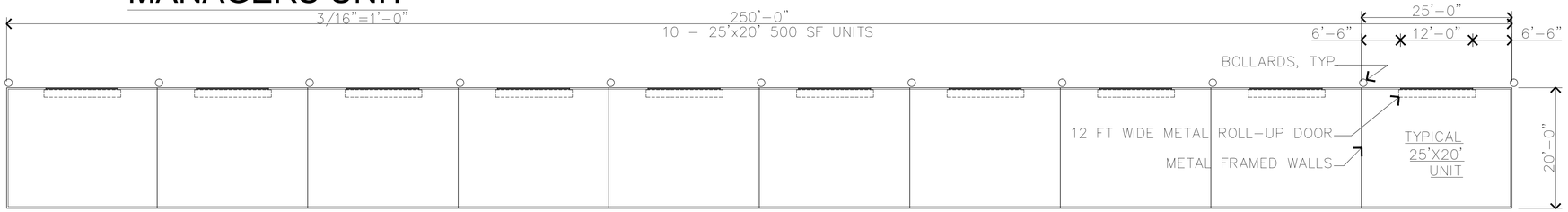
MANAGERS UNIT



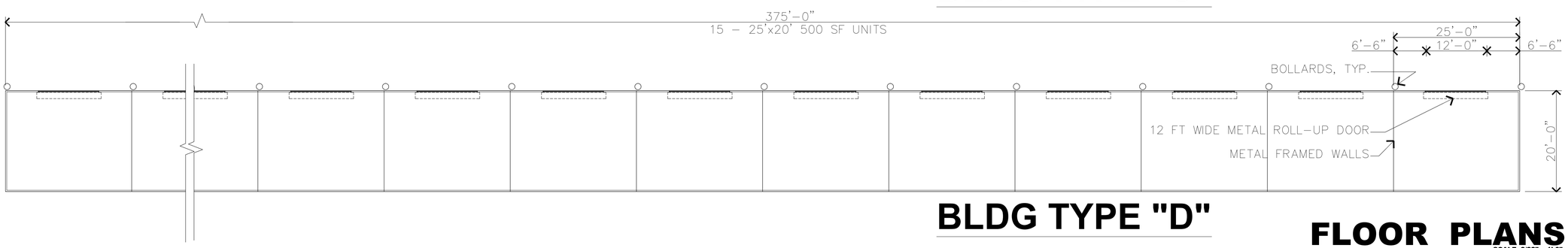
BLDG TYPE "A"



BLDG TYPE "B"



BLDG TYPE "C"



BLDG TYPE "D"

FLOOR PLANS

SCALE: 3/32" = 1'-0"

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DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER JOANNE C. SINGER C 26900 12/31/2027 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

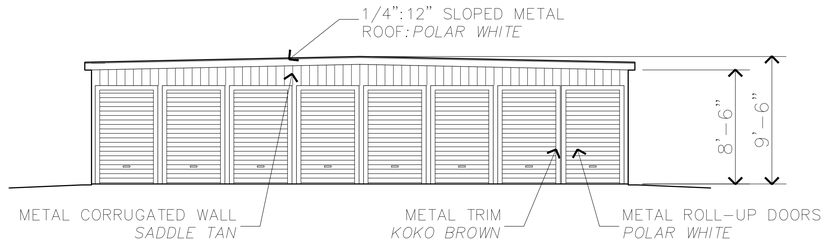
SCALE

3/32" = 1'-0" U.N.O.

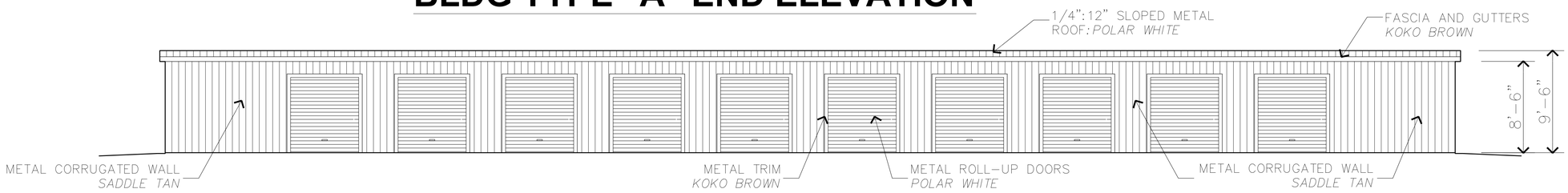
Project Number & Sheet Number

T-2.0

NOTES:
1. ALL METAL TO BE 26 GA. UNLESS NOTED OTHERWISE
2. ALL ROOF AND WALL PANELS TO BE 80k PSI GALVANIZED STEEL (GALVALUME+ OR BETTER)
3. ALL DOOR HANDLES TO BE 15" FROM GROUND MIN. AND 48" FORM GROUND MAX.
4. GUTTERS AND DOWNSPOUTS INTEGRAL WITH METAL ROOF OVERHANGS AND EAVES WITH COLOR: *EMPIRE SIG 200 KOKO BROWN*
5. BOLLARDS TO BE YELLOW REFLECTIVE PAINT AND OR WITH REFLECTED STRIPES.
6. PROVIDE 4' HT. WAINSCOT AT UNITS VISIBLE FROM STREET. COLOR: *EMPIRE SIG 200 CHARCOAL GRAY*
7. *ALL COLORS TO BE EMPIRE SIGNATURE 200 STANDARD COLORS.*

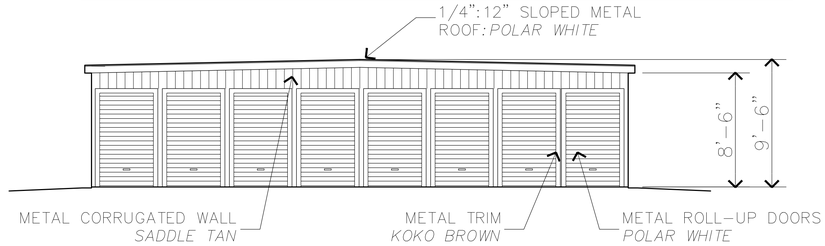


BLDG TYPE "A" END ELEVATION

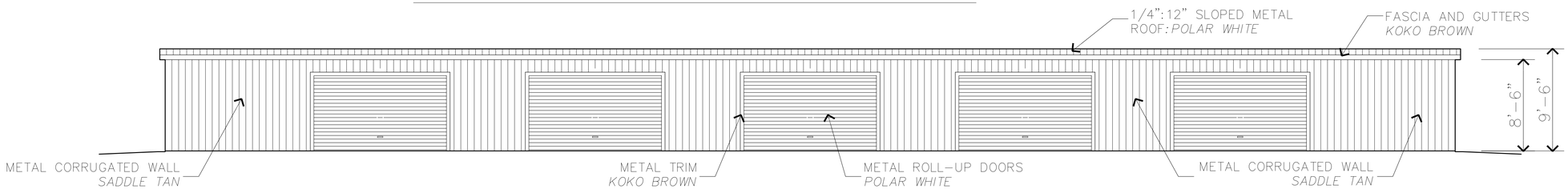


BLDG TYPE "A" SIDE ELEVATION

NOTE: ONE ELEVATION SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL

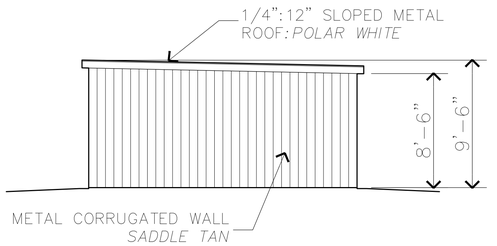


BLDG TYPE "B" END ELEVATION

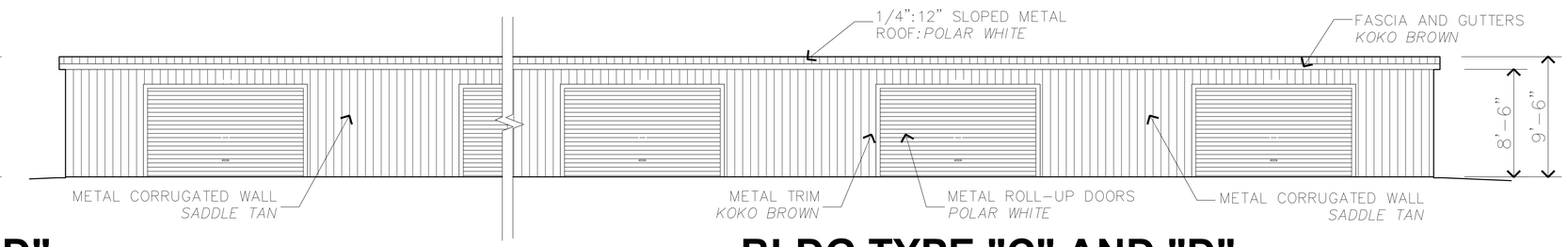


BLDG TYPE "B" SIDE ELEVATION

NOTE: ONE ELEVATION SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL



BLDG TYPE "C" AND "D" END ELEVATION



BLDG TYPE "C" AND "D" SIDE ELEVATION

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DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER JOANNE C. SINGER C 26900 3/31/2027 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

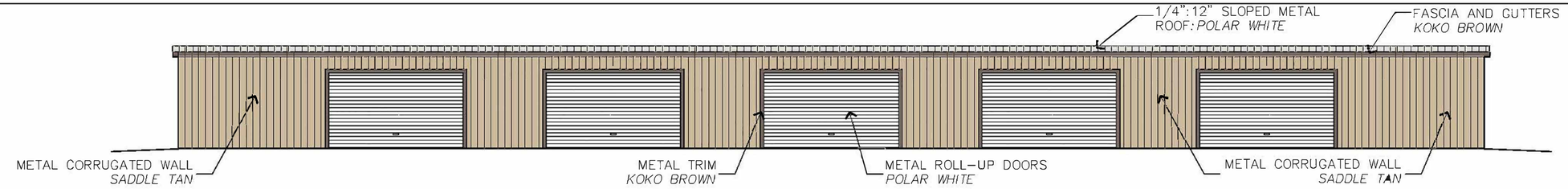
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

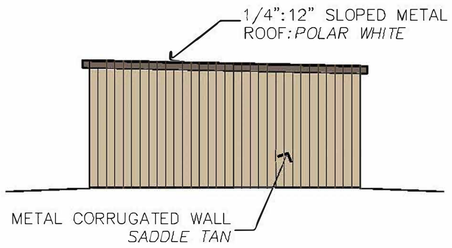
Project Number & Sheet Number

T-3.0

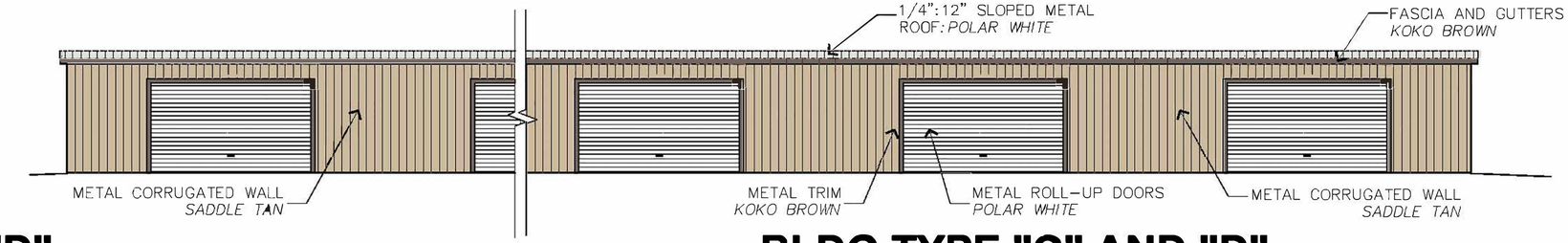


BLDG TYPE "B" SIDE ELEVATION

NOTE: ONE ELEVATION SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL

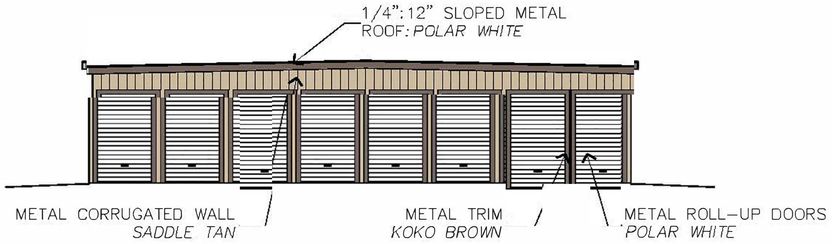


BLDG TYPE "C" AND "D" END ELEVATION



BLDG TYPE "C" AND "D" SIDE ELEVATION

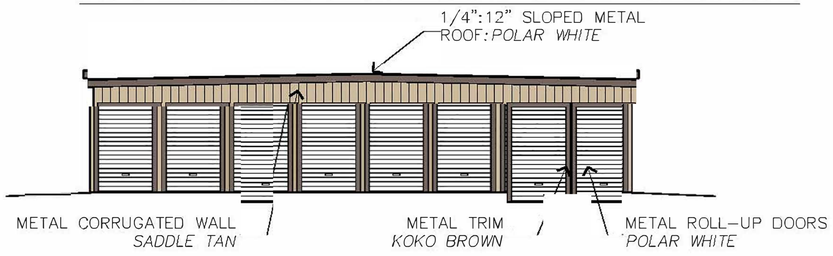
NOTES:
1. ALL METAL TO BE 26 GA. UNLESS NOTED OTHERWISE
2. ALL ROOF AND WALL PANELS TO BE 80k PSI GALVANIZED STEEL (GALVALUME+ OR BETTER)
3. ALL DOOR HANDLES TO BE 15" FROM GROUND MIN. AND 48" FORM GROUND MAX.
4. GUTTERS AND DOWNSPOUTS INTEGRAL WITH METAL ROOF OVERHANGS AND EAVES WITH COLOR: *EMPIRE SIG 200 KOKO BROWN*
5. BOLLARDS TO BE YELLOW REFLECTIVE PAINT AND OR WITH REFLECTED STRIPES.
6. PROVIDE 4' HT. WAINSCOT AT UNITS VISIBLE FROM STREET. COLOR: *EMPIRE SIG 200 CHARCOAL GRAY*
7. *ALL COLORS TO BE EMPIRE SIGNATURE 200 STANDARD COLORS.*



BLDG TYPE "A" END ELEVATION

BLDG TYPE "A" SIDE ELEVATION

NOTE: ONE ELEVATION SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL



BLDG TYPE "B" END ELEVATION

PROPOSED COLORS:

MAIN BUILDING SIDING
SADDLE TAN

WAINCOTING
CHARCOAL GRAY

ROLL-UP/OFC DOORS
POLAR WHITE

TRIM, GUTTERS, FASCIA
KOKO BROWN

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DRF Enterprises

REGISTERED PROFESSIONAL ENGINEER
JOANNE C. SINGER
C 26900
01/2027
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

T-4.0

EAST ELEVATION

SOUTH ELEVATION

WEST ELEVATION

NORTH ELEVATION

3/16"=1'-0"

ALL COLORS:
EMPIRE SIGNATURE 200 STANDARD COLORS

PROPOSED COLORS:

MAIN BUILDING SIDING
SADDLE TAN

WAINCOTING
CHARCOAL GRAY

ROLL-UP/OFC DOORS
POLAR WHITE

TRIM, GUTTERS, FASCIA
KOKO BROWN

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DRF Enterprises

REGISTERED PROFESSIONAL ENGINEER JOANNE C. SINGER C 26900 12/31/2027 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

T-4.1

SAMPLE PERSPECTIVE ELEVATIONS

NOTE: THESE PERSPECTIVE ELEVATIONS ARE REPRESENTATIVE ONLY, TO ILLUSTRATE THE TYPE OF METAL BUILDING PROPOSED.

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DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER
JOANNE C. SINGER
C 26900
7/31/2027
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

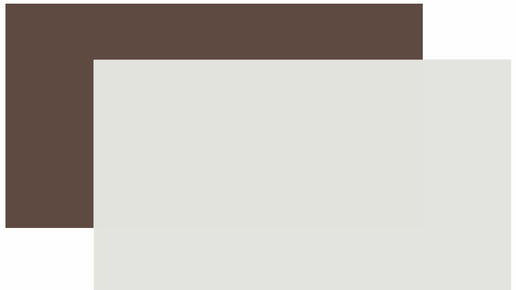
3/16" = 1'-0"

Project Number & Sheet Number

T-4.2

TRIM, GUTTERS, FASCIA
KOKO BROWN
MAIN BUILDING SIDING
SADDLE TAN

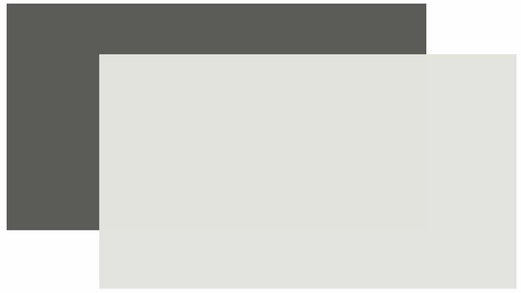
MAIN BUILDING SIDING
SADDLE TAN



TRIM, GUTTERS, FASCIA
KOKO BROWN
ROLL-UP/OFC DOORS
POLAR WHITE

WAINCOTING
CHARCOAL GRAY

METAL ROOF/ROLL-UP DOORS
OFFICE DOORS
POLAR WHITE



METAL ROOF/ROLL-UP DOORS
OFFICE DOORS
POLAR WHITE
WAINCOTING
CHARCOAL GRAY

TRIM, GUTTERS, FASCIA
KOKO BROWN

NOTE:
ALL COLORS SHOWN ARE TO BE EMPIRE SIGNATURE 200 STANDARD COLORS AND ARE ENERGY STAR QUALIFIED COLORS

COLOR BOARD

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DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER
JOANNE C. SINGER
C 26900
3/31/2027
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

Project Number & Sheet Number

T-5.0

NOTES:
ALL PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND NURSERY AND MANUFACTURERS SPECIFICATIONS., RECOMMENDATIONS AND REQUIREMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING PRIOR TO SIGNING OF A CONTRACT WITH THE OWNER OF ANY CONFLICTS. CONFLICTS NOTED AFTER CONTRACT SIGNING OR AFTER THE COMMENCEMENT OF WORK SHALL BE THE SOLE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

VERIFICATION:
PLANT MATERIAL AVAILABILITY SHALL BE CONFIRMED BY LANDSCAPE CONTRACTOR PRIOR TO BIDDING. SHOULD SPECIFIED MATERIAL NOT BE AVAILABLE, THE ARCHITECT AND OWNER SHALL BE NOTIFIED PRIOR TO BID DATE. PLANT SUBSTITUTIONS MAY ONLY BE MADE IF A PLANT BECOMES UNAVAILABLE. SUBSTITUTIONS WILL NOT BE PERMITTED UNLESS SUBSTANTIATED WRITTEN PROOF IS SUPPLIED THAT A SPECIFIED PLANT IS NOT OBTAINABLE. IN THIS SITUATION A PLANT CAN ONLY BE SUBMITTED BY A PLANT OF SIMILAR SIZE, HABITAT, AND VALUE. ABSOLUTELY NO SUBSTITUTIONS CAN BE MADE WITHOUT THE APPROVAL OF THE PROJECT ARCHITECT. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLANT QUANTITIES.

SCHEMATIC:
THE FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. PRIOR TO PLANTING VERIFY EXACT LOCATIONS WITH OWNER. VERIFY LOCATION OF ALL UTILITY LINES PRIOR TO INSTALLATION. FIELD ADJUSTMENT FOR GENERAL INTENT IF CONFLICT EXISTS.

FINISH GRADE:
LANDSCAPE CONTRACTORS SHALL NOT FINE GRADE, AMEND SOIL OR DO ANY PLANTING OR IRRIGATION WORK UNTIL FINAL GRADES ARE ESTABLISHED WITHIN 0.1' BY GENERAL CONTRACTOR.

FINISH GRADES IN PLANTING AREAS:
FINISH GRADES SHALL CONFORM TO GRADING PLAN. FINISH GRADES SHALL BE 1" INCH BELOW ADJACENT HARDSCAPE IN TURF AREAS AND 2" INCHES BELOW ADJACENT HARDSCAPE IN FROM AREAS. POSITIVE DRAINAGE AWAY FROM BUILDING AND WALKWAYS SHALL BE MAINTAINED.

ROUTE BARRIERS:
SEE DETAILS REGARDING ROOT BARRIER REQUIREMENTS.

PLANTING DEPTH:
THE LANDSCAPE CONTRACTOR SHALL PLANT ALL PLANTS AS SHOWN ON THE DETAILS. SHOULD THE LANDSCAPE CONTRACTOR OVERDIG PLANTING HOLES, AND THE PLANT OR PLANTS SETTLE, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLANT THESE PLANTS CORRECTLY. SHOULD REPLANTING WEAKEN IN THE PLANT, THE LANDSCAPE CONTRACTOR SHALL REPLACE PLANT IMMEDIATELY. SHOULD ANY PLANTS SETTLE DURING THE ONE YEAR WARRANTY PERIOD, THEY SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR. ALL REPLANTING AND REPLACEMENT SHALL BE DONE BY THE CONTRACTOR WITHIN TWO WEEKS OF NOTIFICATION AT NO ADDITIONAL COST TO THE OWNER. ALL REPLACEMENT PLANTINGS SHALL BE PROVIDED BY THE CONTRACTOR TO MATCH THE SAME SIZE OF THE SURROUNDING PLANT (E.I. REPLACEMENT PLANTS FOR ONE GALLON SIZE MAY REQUIRE REPLACEMENT BY FIVE GALLON, FIVE GALLON BY 15 GALLON, 15 GALLON BY 24 INCH BOX ETC.). ARCHITECT SHALL HAVE THE FINAL DECISION AS TO WHICH PLANTS ARE TOO DEEP AND IF ANY PLANTS HAVE BEEN WEAKENED BY REPLANTING AND REQUIRE REPLACEMENT.

TREEPLANTING:
THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PLAN FOR TREE PLANTING WHILE INSTALLING THE IRRIGATION SYSTEM. NO TREES OR SHRUBS SHALL BE PLANTED DIRECTLY ON TOP OF IRRIGATION LINES.

BACKFILL:
BACKFILL FOR PLANTING WITH 50 PERCENT CLEAN NATIVE SOIL AND 50 PERCENT NITROLIZED FOREST HUMUS NITROLIZED SAWDUST. PLANT TREES AND SHRUBS WITH TOP OF ROOT BALL SLIGHTLY ABOVE GROUND LEVEL. SET PLANT ON NATIVE GRADE. IF HOLE IS OVERDUG BACKFILL WITH THREE-QUARTER INCH GRAVEL TO POINT WHERE PLANT CROWN IS ABOVE GROUND LEVEL. SET PLANT, BACKFILL HALFWAY, TAMP SOIL, AND FERTILIZER TABLETS THEN COMPLETE BACKFILL. SEE DETAIL. SLOW-RELEASE FERTILIZER PACKS SHALL BE ADDED WHEN PLANTING AS FOLLOWS: ONE FOR ONE GALLON, 3 PER 5 GALLON, 6 FOR 15 GALLON, 12 FOR 24" INCH BOX. PROVIDE WATERING BASIN AROUND EACH PLANT. WATER IMMEDIATELY. REMOVE BASINS IN TURF AREAS PRIOR TO PLANTING TURF.

SOIL PREPARATION:
REMOVE STONES, ROOTS AND OTHER DEBRIS FROM THE PLANTING AREA. COMPACTED SOIL SHALL BE RETURNED TO A FRIABLE CONDITION. APPLY WATER AS NEEDED TO OBTAIN OPTIMUM MOISTURE CONTENT FOR SOIL PREPARATION AND PLANTING. SEATED OR HYDROSEEDED TURF AND FLATTED GROUND COVER AREAS; TILL INTO TOP 6 INCH OF SOIL. BEST 6- 20 - 20XB FERTILIZER (OR APPROVED EQUAL) AT 20 POUNDS PER THOUSAND SQUARE FEET. A 2 INCH LAYER (6 CUBIC YARDS PER THOUSAND SQUARE FEET) NITROLIZED HUMUS, AND 92 POUNDS PER THOUSAND SQUARE FEET 95 PERCENT SPREADABLE GYPSUM. SODDED TURF SAME AS ABOVE WITH ONLY ONE CUBIC YARD PER THOUSAND SQUARE FOOT NITROLIZED HUMUS.

HERBICIDES:
LANDSCAPE CONTRACTOR WILL APPLY RONSTAR OR APPROVED EQUAL PER MANUFACTURER'S REQUIREMENTS AFTER PLANTING. CONFORM TO ALL NATIONAL, STATE AND LOCAL REPORTING REQUIREMENTS. LANDSCAPE CONTRACTOR WILL MAINTAIN THE PROJECT IN A WEED FREE CONDITION UNTIL END OF MAINTENANCE PERIOD.

SPECIALTY PLANTS:
THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALL AMENDMENTS AND SPECIALTY MATERIALS NEEDED FOR PLANTS THAT REQUIRES SPECIAL PLANTING MEDIA. AZALEAS, JAPANESE MAPLES AND CAMELLIAS SHALL BE PLANTED IN A MIXTURE OF HALF PRE-MOISTENED PETE MOSS AND HALF NATIVE SOIL. OTHER PLANS REQUIRING SPECIAL PLANTING MEDIA WILL BE NOTED IN THE LEGEND. THE CONTRACTOR SHALL PROVIDE SPECIALTY MEDIA AS A PORTION OF COMPLETE PROJECT AT NO ADDITIONAL COST TO THE OWNER.

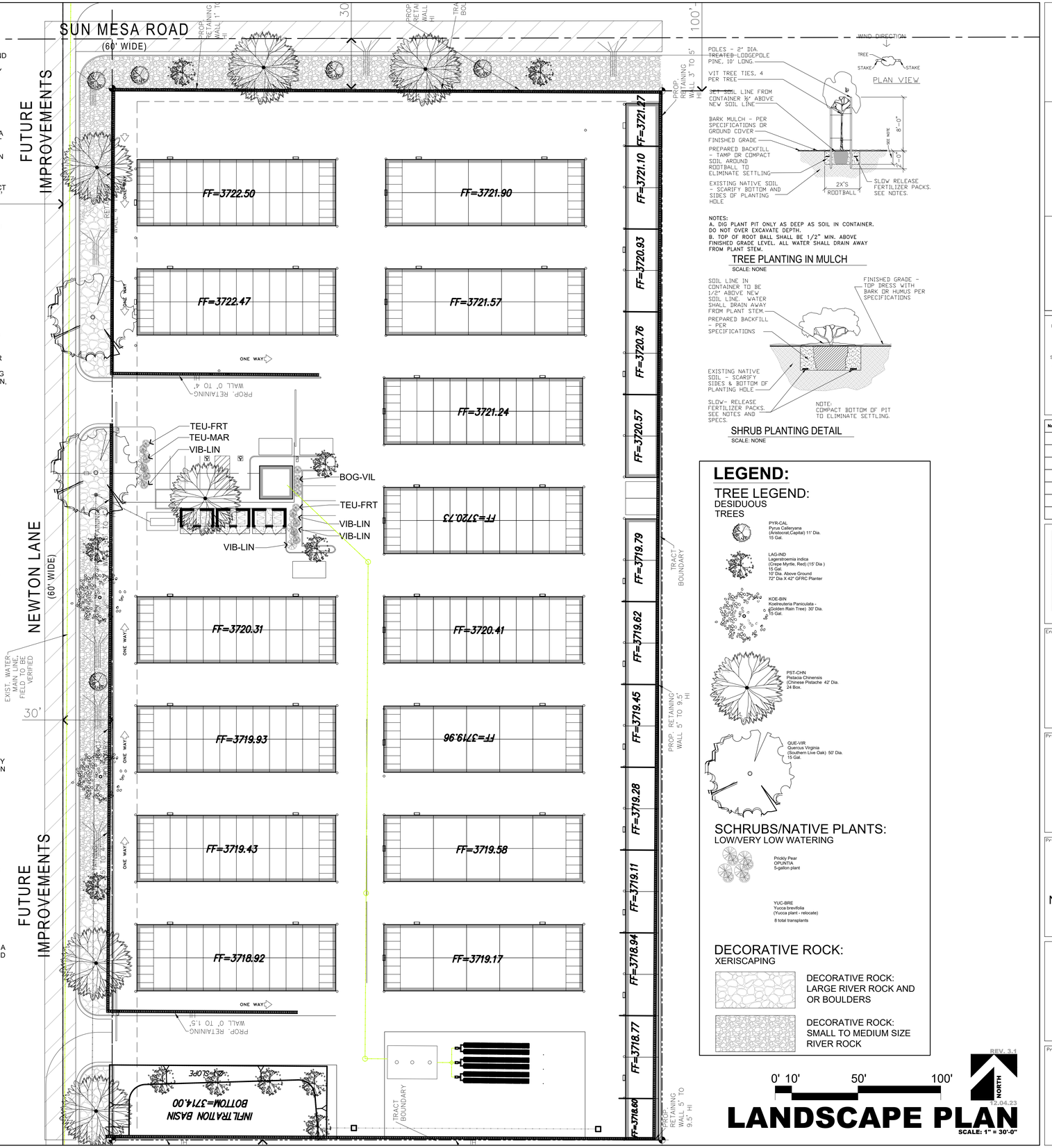
TREES:
ALL THREE SHALL MEET THE REQUIREMENTS OF AMERICAN ASSOCIATION OF NURSERYMEN 'AMERICAN STANDARD OR NURSERY STOCK'. THREE SHALL BE OF EXCELLENT HEALTH WITHOUT DAMAGE OR CIRCLING ROOTS OR FOLIAR DAMAGE FROM FUNGUS, INSECT, SUN OR WIND EXPOSURE OR OTHER BIOLOGICAL OR CLIMATIC CAUSES. THE ARCHITECT OR OWNER RESERVE THE RIGHT TO REJECT UNSUITABLE TREES EVEN AFTER PLANTING. LANDSCAPE CONTRACTOR SHALL REQUEST EVALUATION BY ARCHITECT PRIOR TO PLANTING IF HE/SHE HAS QUESTIONS REGARDING SUITABILITY. IF THE EVALUATION REQUIRES A SITE VISIT NOT PREVIOUSLY SCHEDULED, THE COST OF THE EVALUATION SHALL BE BORNE BY THE CONTRACTOR. TREES SHALL BE STAKED PER DETAIL.

TREE CALIPER:
TREES WILL HAVE THE FOLLOWING CALIPER AND SIX INCH ABOUT GRADE:
5 GALLONS. .5 INCH TO .75 INCH
15 GAL. .75 INCH TO 1.5 IN.
24 IN. BOX 1.5 INCH TO 2.5 IN.

WARRANTY PERIOD, MAINTENANCE PERIOD:
LANDSCAPE CONTRACTOR SHALL WARRANT PLANTING AND ALL OF ITS COMPONENTS FOR 12 MONTHS AFTER FINAL ACCEPTANCE OF PROJECT. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR ASSOCIATED WITH THE GUARANTEE, INCLUDING BUT NOT LIMITED TO THE LOSS OF THE PLANT MATERIAL OR DAMAGED STRUCTURES. LANDSCAPE CONTRACTOR SHALL PROVIDE MAINTENANCE OF THE PROJECT FOR 90 DAYS BEGINNING AT SUBSTANTIAL COMPLETION OF THE PROJECT. IF SUBSTANTIAL COMPLETION PUNCH LIST ITEMS HAVE NOT BEEN CORRECTED WITHIN 10 WORKING DAYS OF THE SUBSTANTIAL COMPLETION REVIEW, THE BEGINNING OF THE MAINTENANCE SHALL BE EXTENDED TO BEGIN AT THE COMPLETION OF THOSE PUNCH LIST ITEMS.

PLANT ALLOWANCE:
THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE THE OWNER WITH COMPLETE PROJECT. HE/SHE SHALL INSTALLED ANY AND ALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND LEGENDS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS, NOTES OR LEGENDS, THE ONE THAT REQUIRES A GREATER NUMBER OF PLANTS SHALL PREVAIL. THE LANDSCAPE CONTRACTOR SHALL MAKE ALL NEEDED CHANGES AS DIRECTED BY THE ARCHITECT AND PROVIDE THE OWNER WITH A COMPLETE PROJECT AT NO ADDITIONAL COST TO THE OWNER.

MULCH:
THE LANDSCAPE CONTRACTOR SHALL INSTALL 2 INCH OF WOOD CHIPS OR BARK ON ALL NON TURF PLANTING AREAS.



NOTES:
A. DIG PLANT PIT ONLY AS DEEP AS SOIL IN CONTAINER. DO NOT OVER EXCAVATE DEPTH.
B. TOP OF ROOT BALL SHALL BE 1/2" MIN. ABOVE FINISHED GRADE LEVEL. ALL WATER SHALL DRAIN AWAY FROM PLANT STEM.

TREE PLANTING IN MULCH
SCALE: NONE

SHRUB PLANTING DETAIL
SCALE: NONE

LEGEND:

TREE LEGEND:
DESIDUOUS
TREES

PYR-CAL
Pyrus Calleryana
(Aristocrat,Capital) 11' Dia.
15 Gal.

LAG-IND
Lagerstroemia indica
(Crape Myrtle, Red) (15' Dia)
15 Gal.
10' Dia. Above Ground
72" Dia X 42" GFRC Planter

KOE-BIN
Koelreuteria Paniculata -
(Golden Rain Tree) 30' Dia.
15 Gal.

PST-CHN
Pistacia Chinensis
(Chinese Pistache 42' Dia.
24 Box.

QUE-VIR
Quercus Virginia
(Southern Live Oak) 50' Dia.
15 Gal.

SCHRUBS/NATIVE PLANTS:
LOW/VERY LOW WATERING

Prickly Pear
OPUNTIA
5-gallon plant

YUC-BRE
Yucca brevifolia
(Yucca plant - relocate)
8 total transplants

DECORATIVE ROCK:
XERISCAPING

DECORATIVE ROCK:
LARGE RIVER ROCK AND OR BOULDERS

DECORATIVE ROCK:
SMALL TO MEDIUM SIZE RIVER ROCK

0' 10' 50' 100'

NORTH
REV. 3.1
12.04.23

LANDSCAPE PLAN
SCALE: 1" = 30'-0"

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	PRELIMS		DRP/JS	3-18-26

DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER
JOANNE C. SINGER
C 26900
12/31/2027
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

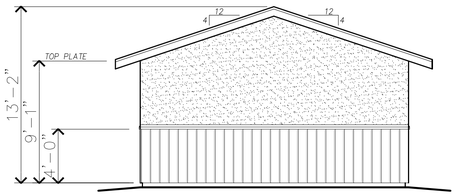
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

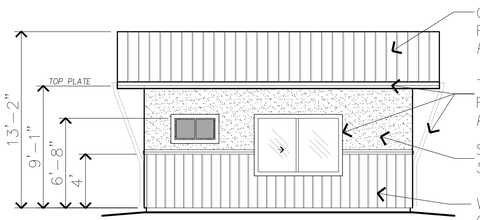
1" = 30'-0"

Project Number & Sheet Number

T-6.0



EAST ELEVATION



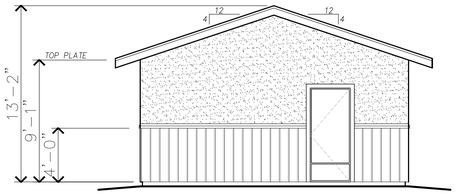
SOUTH ELEVATION

CLASS "A" METAL ROOF COLOR: *POLAR WHITE*

TRIM, GUTTERS, FASCIA: *KOKO BROWN*

STUCCO COLOR: *SADDLE TAN*

WAINCOTING COLOR: *CHARCOAL GRAY*



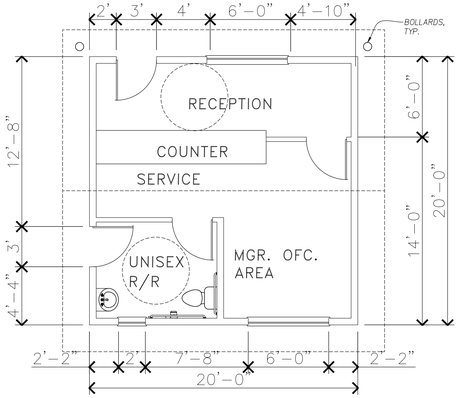
WEST ELEVATION

NORTH ELEVATION

3/16"=1'-0"

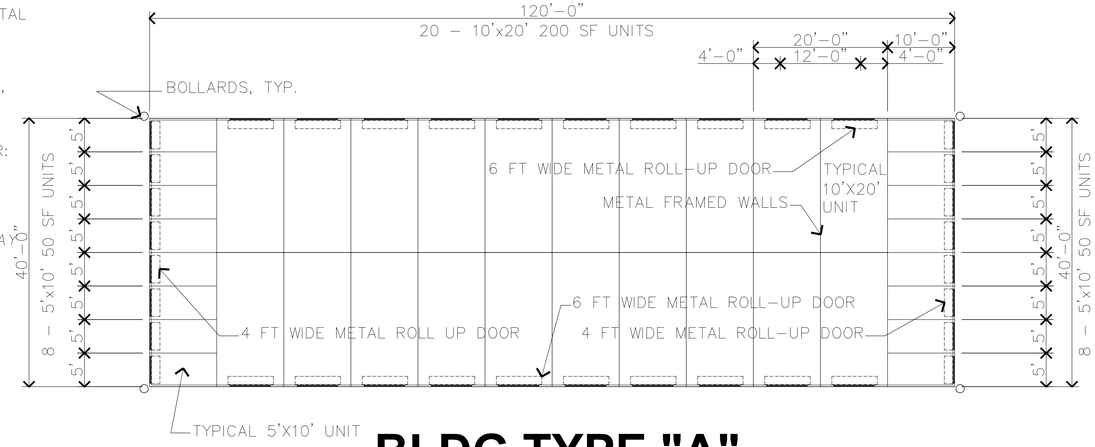
ALL COLORS: *EMPIRE SIGNATURE 200 STANDARD COLORS*

NOTES:
1. CLASS "A" STANDING SEAM METAL ROOF, COLOR POLAR WHITE
2. GUTTERS AND DOWNSPOUTS COLOR: *KOKO BROWN*
3. BOLLARDS TO BE YELLOW REFLECTIVE AND OR WITH REFLECTED STRIPES.

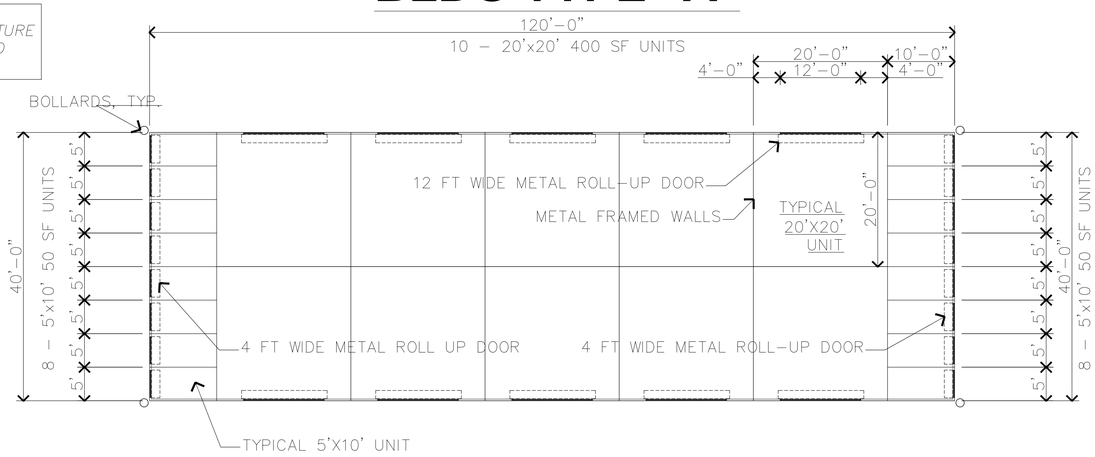


MANAGERS UNIT

3/16"=1'-0"



BLDG TYPE "A"



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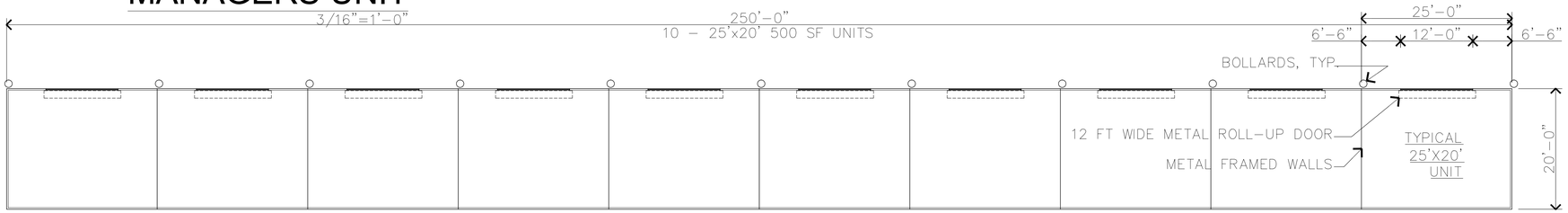

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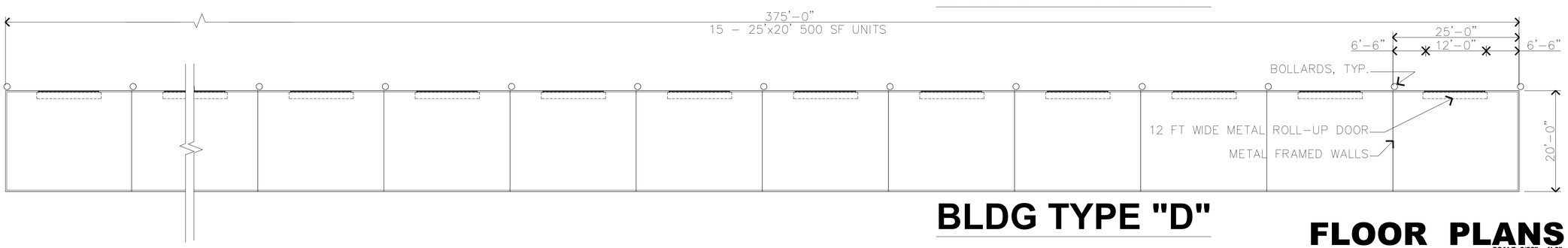

BLDG TYPE "D"

FLOOR PLANS

SCALE: 3/32" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER JOANNE E. SINGH 63400 03/31/2025 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

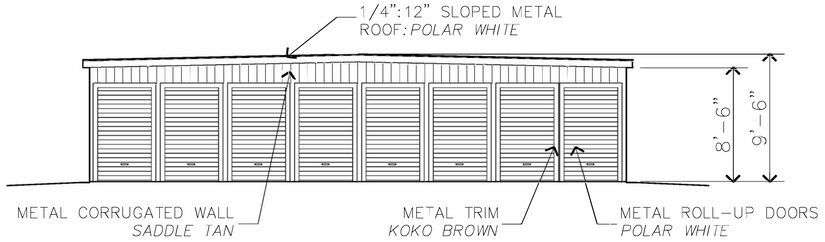
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/32" = 1'-0" U.N.O.

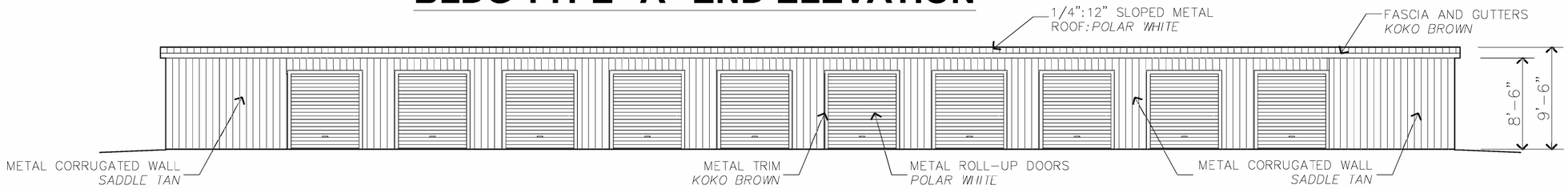
Project Number & Sheet Number

T-2.0



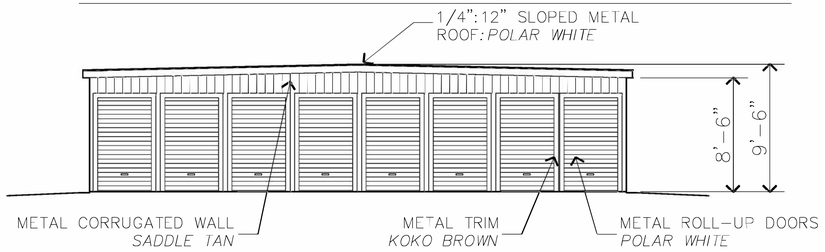
BLDG TYPE "A" END ELEVATION

NOTES:
1. ALL METAL TO BE 26 GA. UNLESS NOTED OTHERWISE
2. ALL ROOF AND WALL PANELS TO BE 80k PSI GALVANIZED STEEL (GALVALUME+ OR BETTER)
3. ALL DOOR HANDLES TO BE 15" FROM GROUND MIN. AND 48" FORM GROUND MAX.
4. GUTTERS AND DOWNSPOUTS INTEGRAL WITH METAL ROOF OVERHANGS AND EAVES WITH COLOR: *EMPIRE SIG 200 KOKO BROWN*
5. BOLLARDS TO BE YELLOW REFLECTIVE PAINT AND OR WITH REFLECTED STRIPES.
6. PROVIDE 4' HT. WAINSCOT AT UNITS VISIBLE FROM STREET. COLOR: *EMPIRE SIG 200 CHARCOAL GRAY*
7. *ALL COLORS TO BE EMPIRE SIGNATURE 200 STANDARD COLORS.*

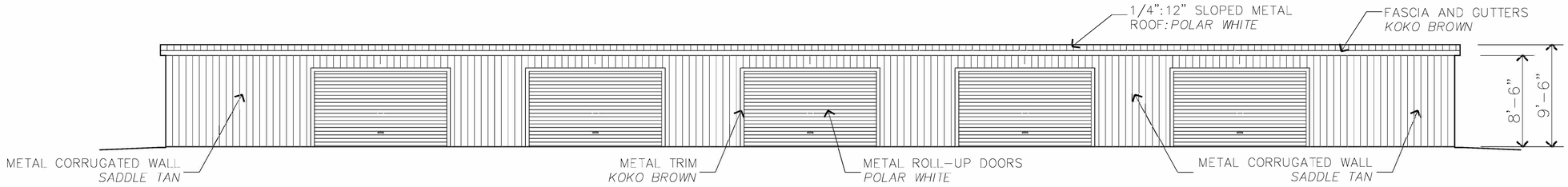


BLDG TYPE "A" SIDE ELEVATION

NOTE: ONE ELEVATION SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL



BLDG TYPE "B" END ELEVATION



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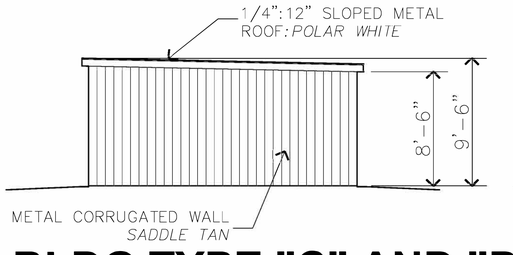
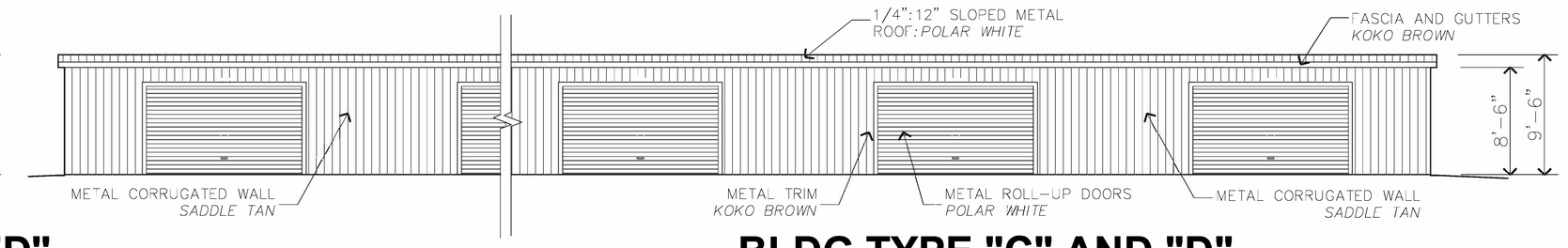


BLDG TYPE "C" AND "D" END ELEVATION



BLDG TYPE "C" AND "D" SIDE ELEVATION

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ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

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3/16" = 1'-0"

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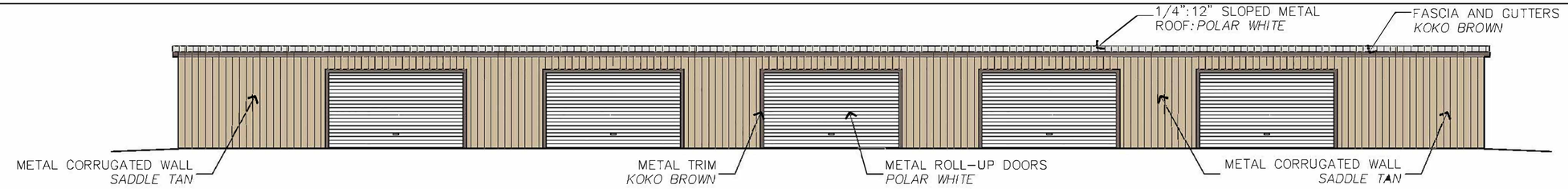

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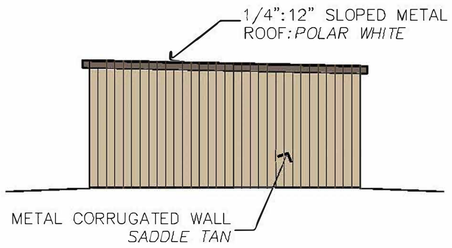
NOTE: ONE ELEVATION SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL



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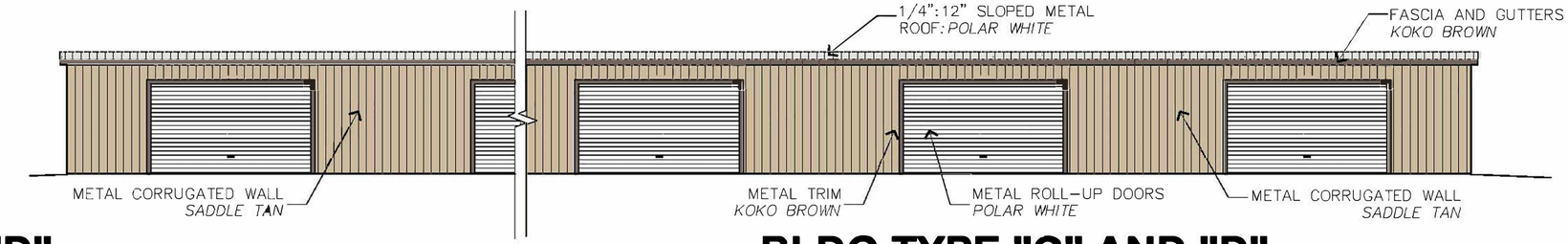

BLDG TYPE "C" AND "D" SIDE ELEVATION

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1. ALL METAL TO BE 26 GA. UNLESS NOTED OTHERWISE
2. ALL ROOF AND WALL PANELS TO BE 80k PSI GALVANIZED STEEL (GALVALUME+ OR BETTER)
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4. GUTTERS AND DOWNSPOUTS INTEGRAL WITH METAL ROOF OVERHANGS AND EAVES WITH COLOR: *EMPIRE SIG 200 KOKO BROWN*
5. BOLLARDS TO BE YELLOW REFLECTIVE PAINT AND OR WITH REFLECTED STRIPES.
6. PROVIDE 4' HT. WAINSCOT AT UNITS VISIBLE FROM STREET. COLOR: *EMPIRE SIG 200 CHARCOAL GRAY*
7. *ALL COLORS TO BE EMPIRE SIGNATURE 200 STANDARD COLORS.*

BLDG TYPE "A" END ELEVATION

BLDG TYPE "A" SIDE ELEVATION

NOTE: ONE ELEVATION SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL

BLDG TYPE "B" END ELEVATION

PROPOSED COLORS:

MAIN BUILDING SIDING
SADDLE TAN

WAINCOTING
CHARCOAL GRAY

ROLL-UP/OFC DOORS
POLAR WHITE

TRIM, GUTTERS, FASCIA
KOKO BROWN

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No.	Revision / Issue	Drawn by	Checked by	DATE
	PRE		DRF/JS	03-25-25

DRF Enterprises

REGISTERED PROFESSIONAL ENGINEER JOANNE C. STINSON C 24900 03/31/2025 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

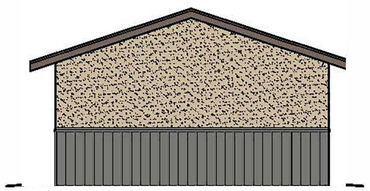
Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

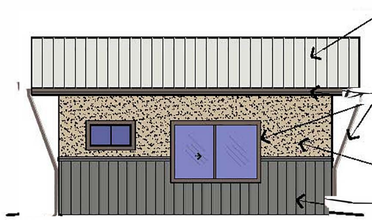
SCALE

3/16" = 1'-0"

T-4.0



EAST ELEVATION



SOUTH ELEVATION

WEST ELEVATION

NORTH ELEVATION

3/16"=1'-0"

ALL COLORS:
EMPIRE SIGNATURE 200 STANDARD COLORS

PROPOSED COLORS:

MAIN BUILDING SIDING
SADDLE TAN

WAINCOTING
CHARCOAL GRAY

ROLL-UP/OFC DOORS
POLAR WHITE

TRIM, GUTTERS, FASCIA
KOKO BROWN

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	Plan			

DRF Enterprises

REGISTERED PROFESSIONAL ENGINEER
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C 24700
03/31/2025
CIVIL
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Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

T-4.1

SAMPLE PERSPECTIVE ELEVATIONS

NOTE: THESE PERSPECTIVE ELEVATIONS ARE REPRESENTATIVE ONLY, TO ILLUSTRATE THE TYPE OF METAL BUILDING PROPOSED.

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	PRELIMS		DRP/JS	08-03-22

DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER JOANNE P. SINGH 62400 12/31/2025 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

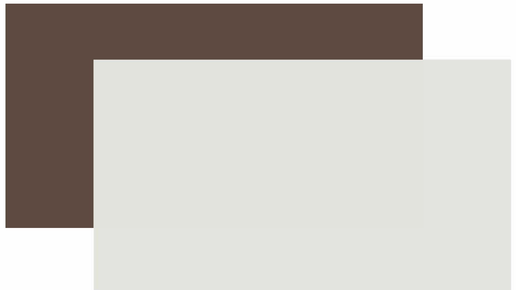
3/16" = 1'-0"

Project Number & Sheet Number

T-4.2

TRIM, GUTTERS, FASCIA
KOKO BROWN
MAIN BUILDING SIDING
SADDLE TAN

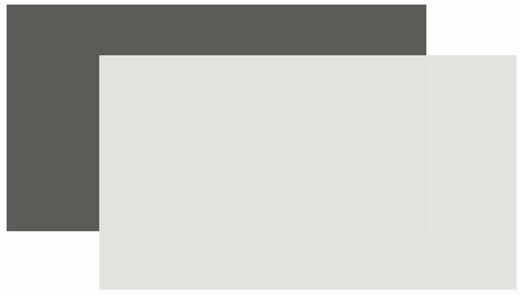
MAIN BUILDING SIDING
SADDLE TAN



TRIM, GUTTERS, FASCIA
KOKO BROWN
ROLL-UP/OFC DOORS
POLAR WHITE

WAINCOTING
CHARCOAL GRAY

METAL ROOF/ROLL-UP DOORS
OFFICE DOORS
POLAR WHITE



METAL ROOF/ROLL-UP DOORS
OFFICE DOORS
POLAR WHITE
WAINCOTING
CHARCOAL GRAY

TRIM, GUTTERS, FASCIA
KOKO BROWN

NOTE:
ALL COLORS SHOWN ARE TO BE EMPIRE SIGNATURE 200 STANDARD COLORS AND ARE ENERGY STAR QUALIFIED COLORS

COLOR BOARD

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DRP Enterprises

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ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

Project Number & Sheet Number

T-5.0

NOTES:
ALL PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND NURSERY AND MANUFACTURERS SPECIFICATIONS., RECOMMENDATIONS AND REQUIREMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING PRIOR TO SIGNING OF A CONTRACT WITH THE OWNER OF ANY CONFLICTS. CONFLICTS NOTED AFTER CONTRACT SIGNING OR AFTER THE COMMENCEMENT OF WORK SHALL BE THE SOLE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

VERIFICATION:
PLANT MATERIAL AVAILABILITY SHALL BE CONFIRMED BY LANDSCAPE CONTRACTOR PRIOR TO BIDDING. SHOULD SPECIFIED MATERIAL NOT BE AVAILABLE, THE ARCHITECT AND OWNER SHALL BE NOTIFIED PRIOR TO BID DATE. PLANT SUBSTITUTIONS MAY ONLY BE MADE IF A PLANT BECOMES UNAVAILABLE. SUBSTITUTIONS WILL NOT BE PERMITTED UNLESS SUBSTANTIATED WRITTEN PROOF IS SUPPLIED THAT A SPECIFIED PLANT IS NOT OBTAINABLE. IN THIS SITUATION A PLANT CAN ONLY BE SUBMITTED BY A PLANT OF SIMILAR SIZE, HABITAT, AND VALUE. ABSOLUTELY NO SUBSTITUTIONS CAN BE MADE WITHOUT THE APPROVAL OF THE PROJECT ARCHITECT. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLANT QUANTITIES.

SCHEMATIC:
THE FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. PRIOR TO PLANTING VERIFY EXACT LOCATIONS WITH OWNER. VERIFY LOCATION OF ALL UTILITY LINES PRIOR TO INSTALLATION. FIELD ADJUSTMENT FOR GENERAL INTENT IF CONFLICT EXISTS.

FINISH GRADE:
LANDSCAPE CONTRACTORS SHALL NOT FINE GRADE, AMEND SOIL OR DO ANY PLANTING OR IRRIGATION WORK UNTIL FINAL GRADES ARE ESTABLISHED WITHIN 0.1' BY GENERAL CONTRACTOR.

FINISH GRADES IN PLANTING AREAS:
FINISH GRADES SHALL CONFORM TO GRADING PLAN. FINISH GRADES SHALL BE 1" INCH BELOW ADJACENT HARDSCAPE IN TURF AREAS AND 2" INCHES BELOW ADJACENT HARDSCAPE IN FROM AREAS. POSITIVE DRAINAGE AWAY FROM BUILDING AND WALKWAYS SHALL BE MAINTAINED.

ROUTE BARRIERS:
SEE DETAILS REGARDING ROOT BARRIER REQUIREMENTS.

PLANTING DEPTH:
THE LANDSCAPE CONTRACTOR SHALL PLANT ALL PLANTS AS SHOWN ON THE DETAILS. SHOULD THE LANDSCAPE CONTRACTOR OVERDIG PLANTING HOLES, AND THE PLANT OR PLANTS SETTLE, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLANT THESE PLANTS CORRECTLY. SHOULD REPLANTING WEAKEN IN THE PLANT, THE LANDSCAPE CONTRACTOR SHALL REPLACE PLANT IMMEDIATELY. SHOULD ANY PLANTS SETTLE DURING THE ONE YEAR WARRANTY PERIOD, THEY SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR. ALL REPLANTING AND REPLACEMENT SHALL BE DONE BY THE CONTRACTOR WITHIN TWO WEEKS OF NOTIFICATION AT NO ADDITIONAL COST TO THE OWNER. ALL REPLACEMENT PLANTINGS SHALL BE PROVIDED BY THE CONTRACTOR TO MATCH THE SAME SIZE OF THE SURROUNDING PLANT (E.I. REPLACEMENT PLANTS FOR ONE GALLON SIZE MAY REQUIRE REPLACEMENT BY FIVE GALLON, FIVE GALLON BY 15 GALLON, 15 GALLON BY 24 INCH BOX ETC.). ARCHITECT SHALL HAVE THE FINAL DECISION AS TO WHICH PLANTS ARE TOO DEEP AND IF ANY PLANTS HAVE BEEN WEAKENED BY REPLANTING AND REQUIRE REPLACEMENT.

TREEPLANTING:
THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PLAN FOR TREE PLANTING WHILE INSTALLING THE IRRIGATION SYSTEM. NO TREES OR SHRUBS SHALL BE PLANTED DIRECTLY ON TOP OF IRRIGATION LINES.

BACKFILL:
BACKFILL FOR PLANTING WITH 50 PERCENT CLEAN NATIVE SOIL AND 50 PERCENT NITROLIZED FOREST HUMUS NITROLIZED SAWDUST. PLANT TREES AND SHRUBS WITH TOP OF ROOT BALL SLIGHTLY ABOVE GROUND LEVEL. SET PLANT ON NATIVE GRADE. IF HOLE IS OVERDUG BACKFILL WITH THREE-QUARTER INCH GRAVEL TO POINT WHERE PLANT CROWN IS ABOVE GROUND LEVEL. SET PLANT, BACKFILL HALFWAY, TAMP SOIL, AND FERTILIZER TABLETS THEN COMPLETE BACKFILL. SEE DETAIL. SLOW-RELEASE FERTILIZER PACKS SHALL BE ADDED WHEN PLANTING AS FOLLOWS: ONE FOR ONE GALLON, 3 PER 5 GALLON, 6 FOR 15 GALLON, 12 FOR 24" INCH BOX. PROVIDE WATERING BASIN AROUND EACH PLANT. WATER IMMEDIATELY. REMOVE BASINS IN TURF AREAS PRIOR TO PLANTING TURF.

SOIL PREPARATION:
REMOVE STONES, ROOTS AND OTHER DEBRIS FROM THE PLANTING AREA. COMPACTED SOIL SHALL BE RETURNED TO A FRIABLE CONDITION. APPLY WATER AS NEEDED TO OBTAIN OPTIMUM MOISTURE CONTENT FOR SOIL PREPARATION AND PLANTING. SEATED OR HYDROSEEDED TURF AND FLATTED GROUND COVER AREAS; TILL INTO TOP 6 INCH OF SOIL. BEST 6- 20 - 20XB FERTILIZER (OR APPROVED EQUAL) AT 20 POUNDS PER THOUSAND SQUARE FEET. A 2 INCH LAYER (6 CUBIC YARDS PER THOUSAND SQUARE FEET) NITROLIZED HUMUS, AND 92 POUNDS PER THOUSAND SQUARE FEET 95 PERCENT SPREADABLE GYPSUM. SODDED TURF SAME AS ABOVE WITH ONLY ONE CUBIC YARD PER THOUSAND SQUARE FOOT NITROLIZED HUMUS.

HERBICIDES:
LANDSCAPE CONTRACTOR WILL APPLY RONSTAR OR APPROVED EQUAL PER MANUFACTURER'S REQUIREMENTS AFTER PLANTING. CONFORM TO ALL NATIONAL, STATE AND LOCAL REPORTING REQUIREMENTS. LANDSCAPE CONTRACTOR WILL MAINTAIN THE PROJECT IN A WEED FREE CONDITION UNTIL END OF MAINTENANCE PERIOD.

SPECIALTY PLANTS:
THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALL AMENDMENTS AND SPECIALTY MATERIALS NEEDED FOR PLANTS THAT REQUIRES SPECIAL PLANTING MEDIA. AZALEAS, JAPANESE MAPLES AND CAMELLIAS SHALL BE PLANTED IN A MIXTURE OF HALF PRE-MOISTENED PETE MOSS AND HALF NATIVE SOIL. OTHER PLANS REQUIRING SPECIAL PLANTING MEDIA WILL BE NOTED IN THE LEGEND. THE CONTRACTOR SHALL PROVIDE SPECIALTY MEDIA AS A PORTION OF COMPLETE PROJECT AT NO ADDITIONAL COST TO THE OWNER.

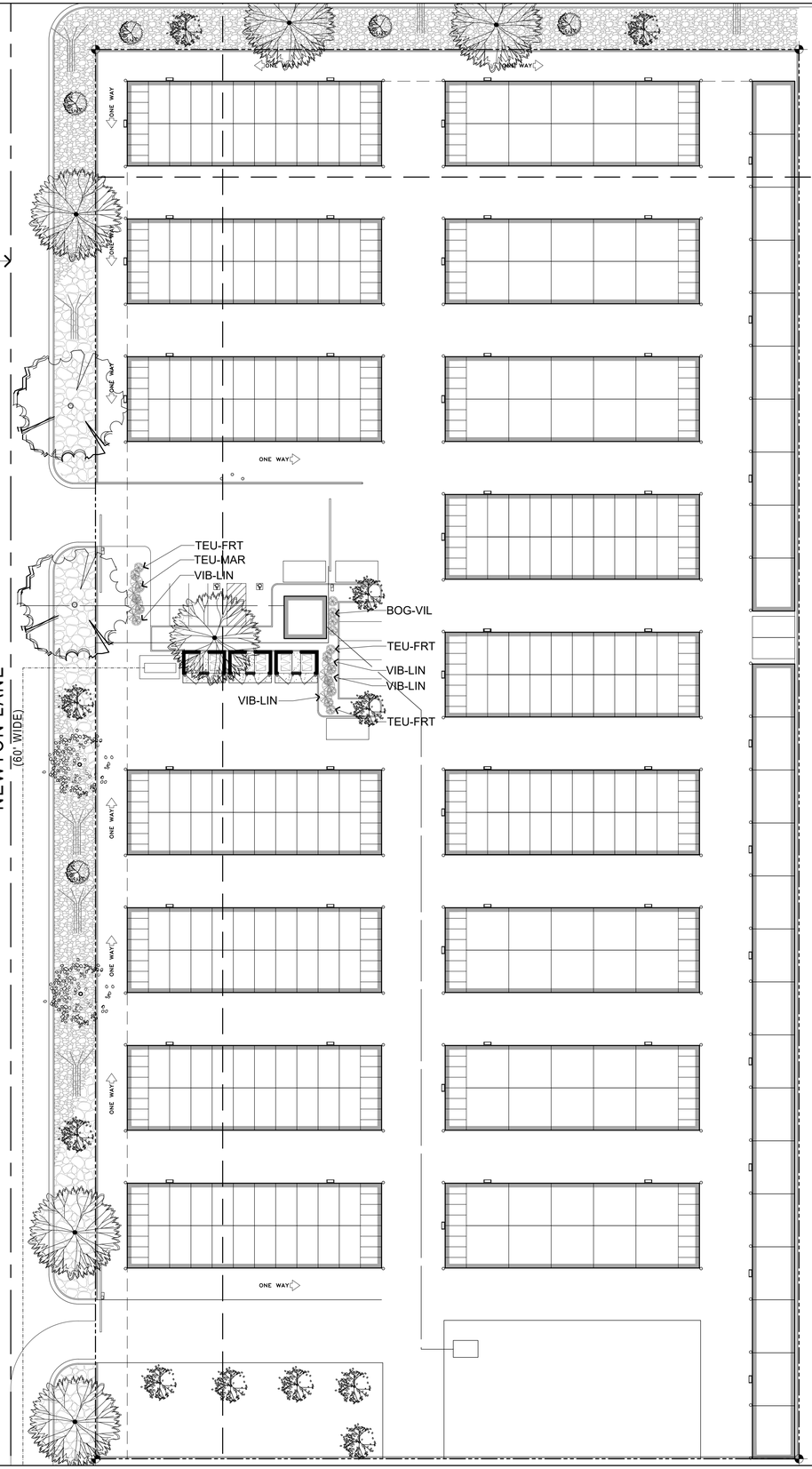
TREES:
ALL THREE SHALL MEET THE REQUIREMENTS OF AMERICAN ASSOCIATION OF NURSERYMEN 'AMERICAN STANDARD OR NURSERY STOCK'. THREE SHALL BE OF EXCELLENT HEALTH WITHOUT DAMAGE OR CIRCLING ROOTS OR FOLIAR DAMAGE FROM FUNGUS, INSECT, SUN OR WIND EXPOSURE OR OTHER BIOLOGICAL OR CLIMATIC CAUSES. THE ARCHITECT OR OWNER RESERVE THE RIGHT TO REJECT UNSUITABLE TREES EVEN AFTER PLANTING. LANDSCAPE CONTRACTOR SHALL REQUEST EVALUATION BY ARCHITECT PRIOR TO PLANTING IF HE/SHE HAS QUESTIONS REGARDING SUITABILITY. IF THE EVALUATION REQUIRES A SITE VISIT NOT PREVIOUSLY SCHEDULED, THE COST OF THE EVALUATION SHALL BE BORNE BY THE CONTRACTOR. TREES SHALL BE STAKED PER DETAIL.

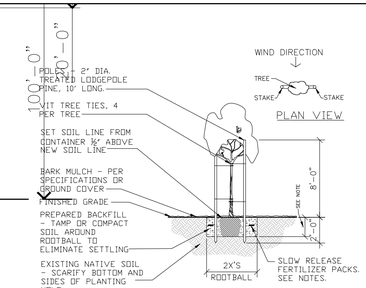
TREE CALIPER:
TREES WILL HAVE THE FOLLOWING CALIPER AND SIX INCH ABOUT GRADE:
5 GALLONS. .5 INCH TO .75 INCH
15 GAL. .75 INCH TO 1.5 IN.
24 IN. BOX 1.5 INCH TO 2.5 IN.

WARRANTY PERIOD, MAINTENANCE PERIOD:
LANDSCAPE CONTRACTOR SHALL WARRANT PLANTING AND ALL OF ITS COMPONENTS FOR 12 MONTHS AFTER FINAL ACCEPTANCE OF PROJECT. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR ASSOCIATED WITH THE GUARANTEE, INCLUDING BUT NOT LIMITED TO THE LOSS OF THE PLANT MATERIAL OR DAMAGED STRUCTURES. LANDSCAPE CONTRACTOR SHALL PROVIDE MAINTENANCE OF THE PROJECT FOR 90 DAYS BEGINNING AT SUBSTANTIAL COMPLETION OF THE PROJECT. IF SUBSTANTIAL COMPLETION PUNCH LIST ITEMS HAVE NOT BEEN CORRECTED WITHIN 10 WORKING DAYS OF THE SUBSTANTIAL COMPLETION REVIEW, THE BEGINNING OF THE MAINTENANCE SHALL BE EXTENDED TO BEGIN AT THE COMPLETION OF THOSE PUNCH LIST ITEMS.

PLANT ALLOWANCE:
THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE THE OWNER WITH COMPLETE PROJECT. HE/SHE SHALL INSTALLED ANY AND ALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND LEGENDS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS, NOTES OR LEGENDS, THE ONE THAT REQUIRES A GREATER NUMBER OF PLANTS SHALL PREVAIL. THE LANDSCAPE CONTRACTOR SHALL MAKE ALL NEEDED CHANGES AS DIRECTED BY THE ARCHITECT AND PROVIDE THE OWNER WITH A COMPLETE PROJECT AT NO ADDITIONAL COST TO THE OWNER.

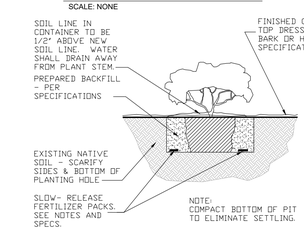
MULCH:
THE LANDSCAPE CONTRACTOR SHALL INSTALL 2 INCH OF WOOD CHIPS OR BARK ON ALL NON TURF PLANTING AREAS.





NOTES:
A. DIG PLANT PIT ONLY AS DEEP AS SOIL IN CONTAINER. DO NOT OVER EXCAVATE DEPTH.
B. TOP OF ROOT BALL SHALL BE 1/2" MIN. ABOVE FINISHED GRADE LEVEL. ALL WATER SHALL DRAIN AWAY FROM PLANT STEM.

TREE PLANTING IN MULCH
SCALE: NONE



SHRUB PLANTING DETAIL
SCALE: NONE

LEGEND:

TREE LEGEND:
DESIDUOUS
TREES

PYR-CAL
Pyrus Calleryana
(Aristocrat,Capital) 11' Dia.
15 Gal.

LAG-IND
Lagerstroemia indica
(Crape Myrtle, Red) (15' Dia)
15 Gal.
10' Dia. Above Ground
72" Dia X 42" GFRC Planter

KOE-BIN
Koelreuteria Paniculata -
(Golden Rain Tree) 30' Dia.
15 Gal.

PST-CHN
Pistacia Chinensis
(Chinese Pistache 42' Dia.
24 Box.

QUE-VIR
Quercus Virginia
(Southern Live Oak) 50' Dia.
15 Gal.

SCHRUBS/NATIVE PLANTS:
LOW/VERY LOW WATERING

Prickly Pear
OPUNTIA
5-gallon plant

YUC-BRE
Yucca brevifolia
(Yucca plant - relocate)
8 total transplants

DECORATIVE ROCK:
XERISCAPING

DECORATIVE ROCK:
LARGE RIVER ROCK AND OR BOULDERS

DECORATIVE ROCK:
SMALL TO MEDIUM SIZE RIVER ROCK

0' 10' 50' 100'

REV. 3.1
12.04.23

LANDSCAPE PLAN
SCALE: 1" = 30'-0"

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DRP Enterprises

Engineer

JOSEPH DANIEL SINGER
REGISTERED PROFESSIONAL ENGINEER
C-92000
09/30/2025
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

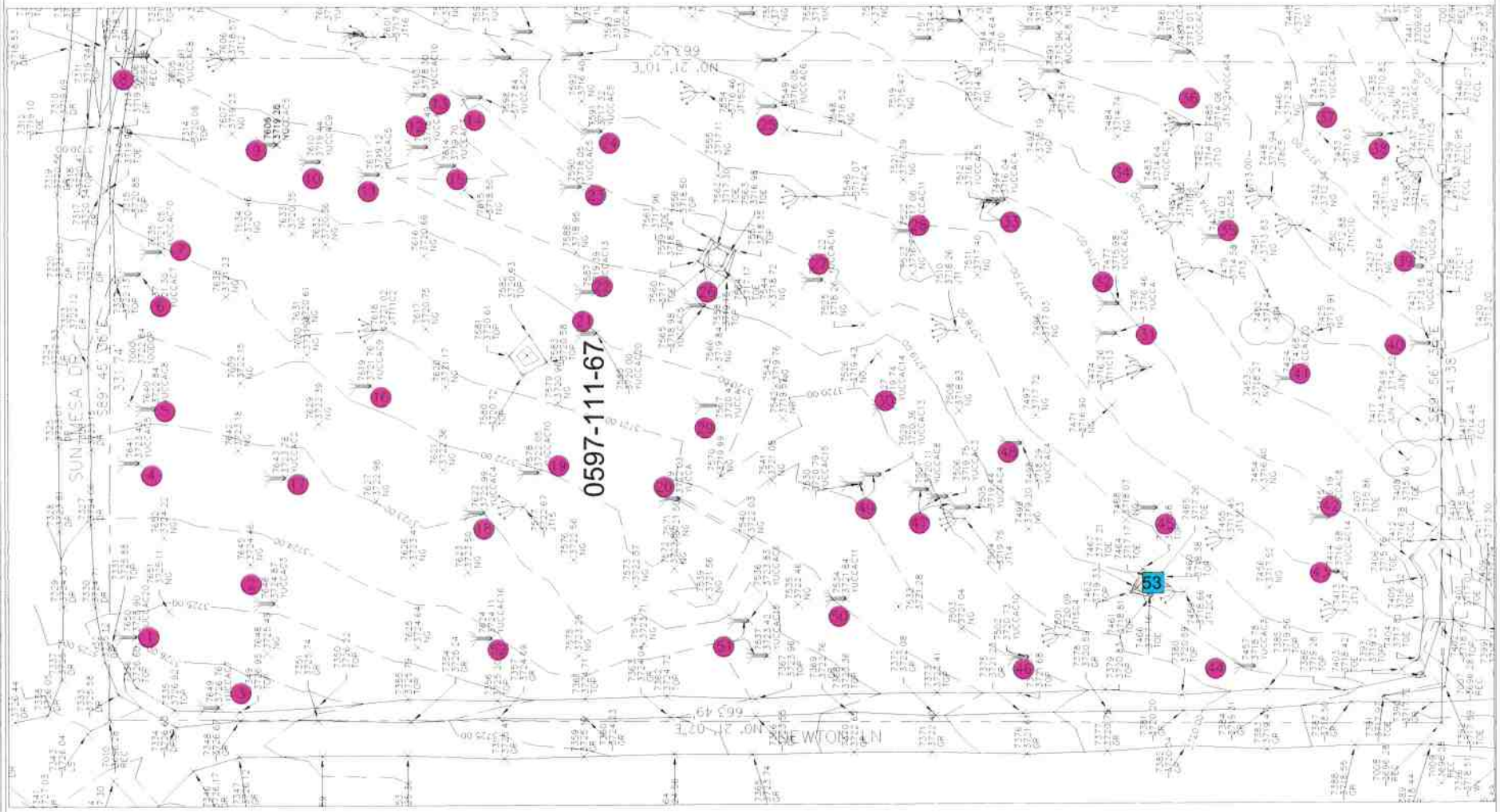
SCALE

1" = 30'-0"

Project Number & Sheet Number

T-6.0

					Size Class (Place an "X" in the corresponding column)			
Tag #	Height- Feet	Diameter- Inches	Health- Good- Fair- Poor	Trasplant, Destroy, or Protect in Place	Class 1 (Less than 1 Meter) (3')	Class 2 (Between 1 Meter and 4 Meters)	Class 3 (4 Meters or Taller) (13')	Y=Yucca Plant CJ=Cal Juniper PP=Pinon Pine PN=Parrys Nolina
1 a,b,c	3'-6"	2'	FAIR	Destroy		X		Y mulit
2 a,b	3'-8"	2'-4"	FAIR	Destroy		X		Y
3	3'	8"	FAIR	Destroy	X			Y
4 a,b,c	3'	2'-6"	FAIR	Destroy	X			Y
5	5'	3'	GOOD	Transplant		X		Y multi
6a,b	4'-6"	2'	GOOD	Transplant		X		Y multi
7a,b	4'	2'	FAIR	Destroy		X		Y multi
8	4'	1'-4"	GOOD	Transplant		X		Y
9	2'	2'	GOOD	Transplant	X			Y
10a,b	4'	2'	GOOD	Transplant		X		Y multi
11a,b,c	5'	3'	FAIR	Destroy		X		Y multi
12	5'	7"	GOOD	Transplant		X		Y
13a,b	2'	2'	GOOD	Transplant	X			Y multi
14a-e	5'	3'	GOOD	Transplant		X		Y multiti
15	2'-6"	1'-6"	POOR	Destroy	X			Y
16	4'-8"	2'	GOOD	Destroy		X		Y
17	4'	2'	FAIR	Destroy		X		Y
18	3'-6"	2'	POOR	Destroy		X		Y
19	3'	2'	FAIR	Destroy	X			Y
20	4'	2'-4"	POOR	Destroy		X		Y
21	3'	2'	POOR	Destroy	X			Y
22	5'	1'-6"	FAIR	Destroy		X		Y
23	4'-4"	1'-8"	FAIR	Destroy		X		Y
24a-d	5'-6"	3'-2"	GOOD	Destroy		X		Y multi
25	3'-2"	1'-6"	FAIR	Destroy		X		Y
26	4'	1'-6"	GOOD	Destroy		X		Y
27	2'-8"	2'	GOOD	Destroy	X			Y
28	3'-10"	1'-8"	GOOD	Destroy		X		Y
29a,b,c,d	6'	2'	GOOD	Destroy		X		Y multi
30	3'	1'-7"	GOOD	Destroy	X			Y
31a,b,c	5'	1'-3"	GOOD	Destroy		X		Y multi
32	5'-7"	1'-7"	GOOD	Destroy		X		Y
33	5'	2'-6"	FAIR	Destroy		X		Y (multiple)
34a,b	4'-6"	2'-2"	GOOD	Destroy		X		Y multi
35	5'	2'-5"	GOOD	Destroy		X		Y
36	5'-2"	2'-8"	GOOD	Destroy		X		Y
37	5'-7"	2'-4"	GOOD	Destroy		X		Y
38	4'	4"	GOOD	Destroy		X		Y
39	6'	8"	GOOD	Destroy		X		Y (multiple)
40a,b	4'-5"	2'-6"	GOOD	Destroy		X		Y multi
41a-d	3'	3'	GOOD	Destroy	X			Y multi
42	2'	1'-6"	GOOD	Destroy	X			Y
43	4'	3'-2"	GOOD	Destroy		X		Y
44	4'-8"	2'-6"	GOOD	Destroy		X		Y
45	3'-2"	2'-6"	GOOD	Destroy		X		Y
46	5'	4'	GOOD	Destroy		X		Y
47a,b,c	3'-10"	3'	GOOD	Destroy		X		Y (multiple)
48a,b	3'	2'	GOOD	Destroy	X			Y multi
49a-f	5'	4'	GOOD	Destroy		X		Y (multiple)
50a,b,c	3'	2'-6"	GOOD	Destroy	X			Y
51a,b	4'	3'-6"	GOOD	Destroy		X		Y (multiple)
52a,b	2'-2"	2'	GOOD	Destroy				Y multi
53	4'	1'-6"	GOOD	Destroy		X		CJ



YUCCA PLANT
PINON PINE
CAL JUNIPER PLANT
PARRYS NOLINA

JUNIPER TREE
YUCCA PLANT
JOSHUA TREE
PINON PINE
PARRYS NOLINA

NATIVE PLANT EXHIBIT
SCALE - 1"=20'

Notes

NATIVE PLANT EXHIBIT

720,109 SQ. FT.

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No.	Revisions / Issues	Drawn By	Checked By	Date
1	ADMIN		JS	
2				
3				

DRP ENTERPRISES LLC
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DRP Enterprises

Engineer

JOANNE C. SINGER
No. 26900
3/31/2025
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS

SUN MESA ROAD
YUCCA VALLEY, CA
APN# 0596-532-07-0000

Project Name & Address

NATIVE PLANT EXHIBIT
SUN MESA ROAD
YUCCA VALLEY, CA
APN# 0596-532-07-0000

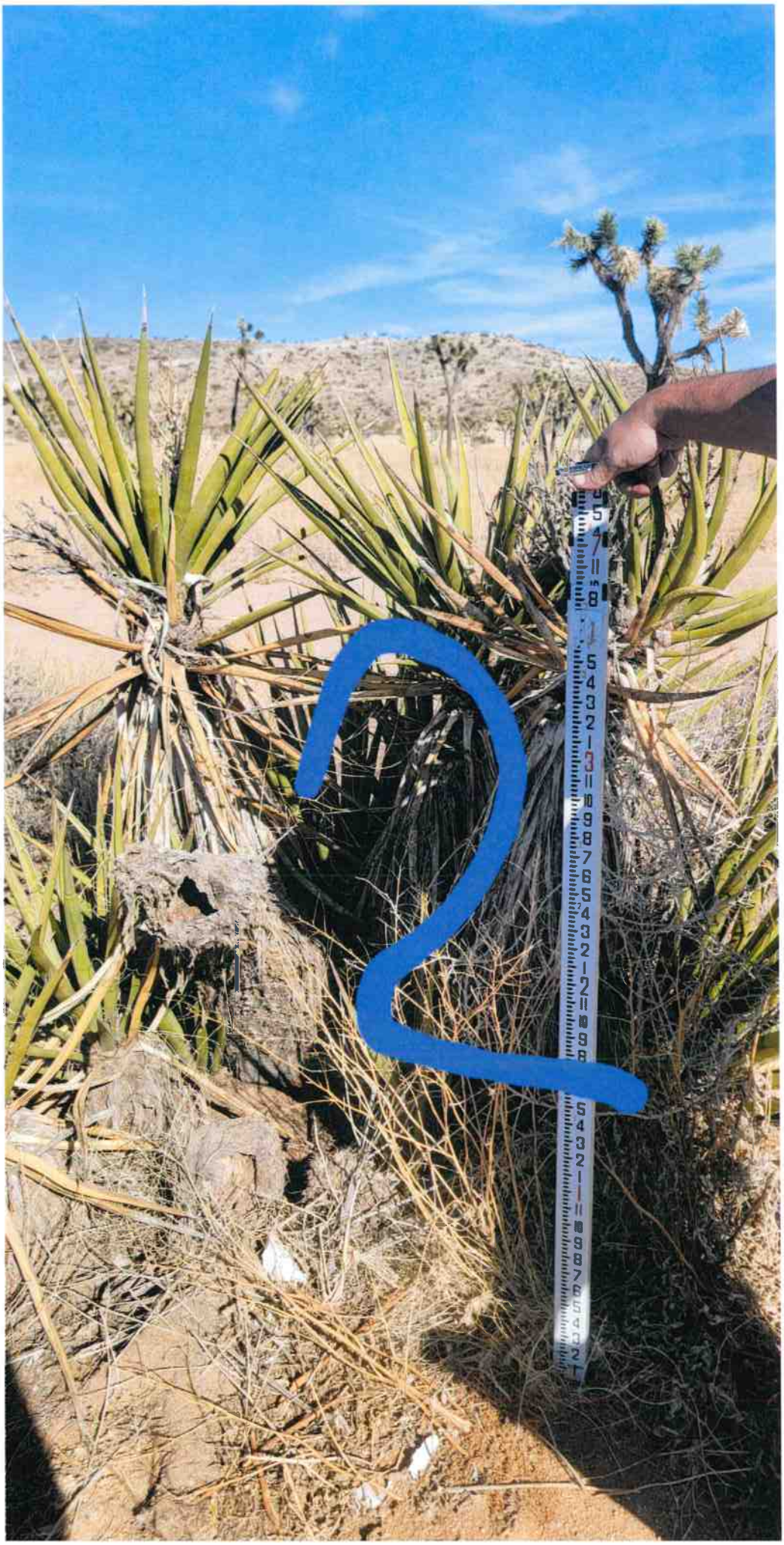
Drawing

SCALE

AS NOTED

Project Number & Sheet Number

1 OF 1



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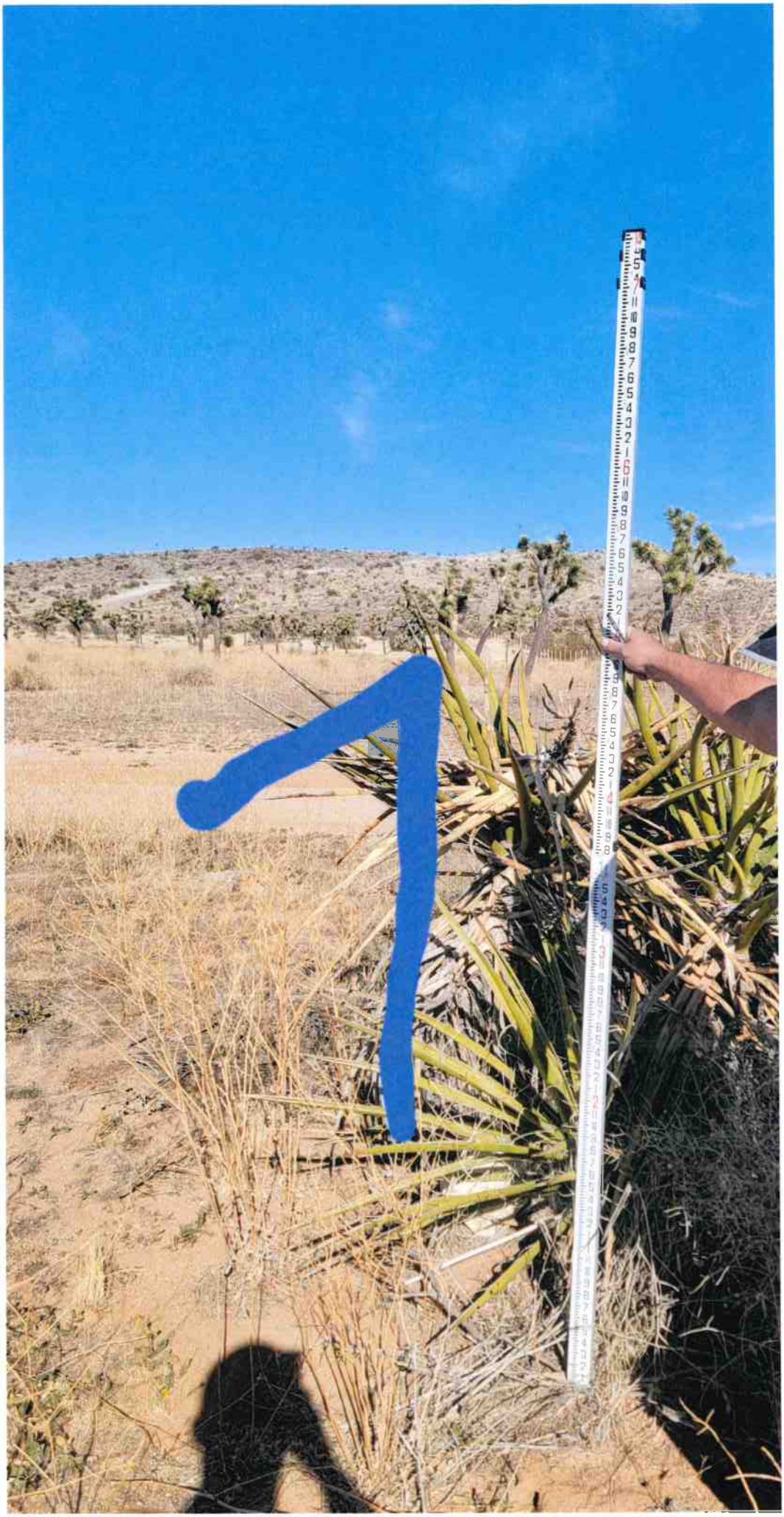

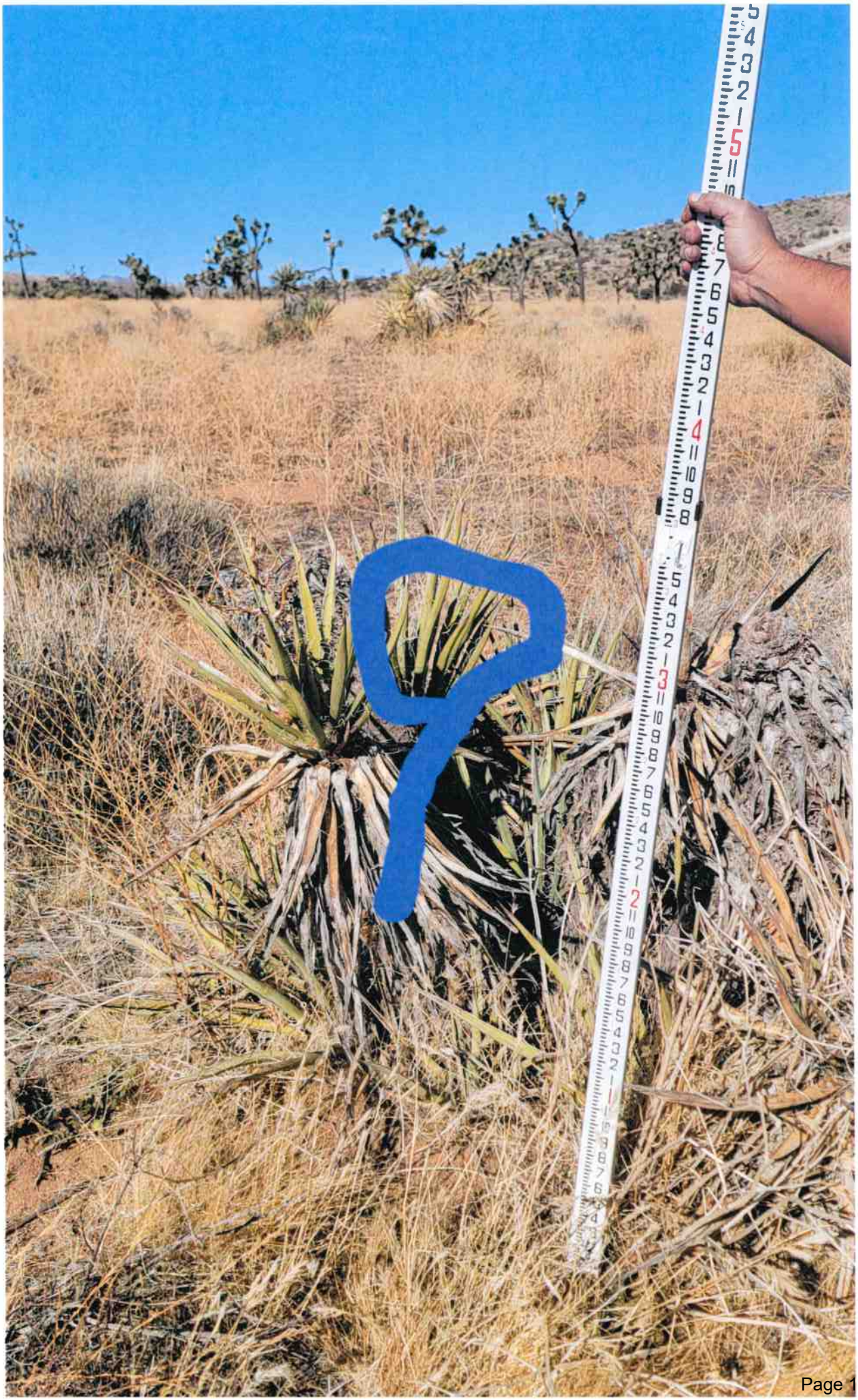

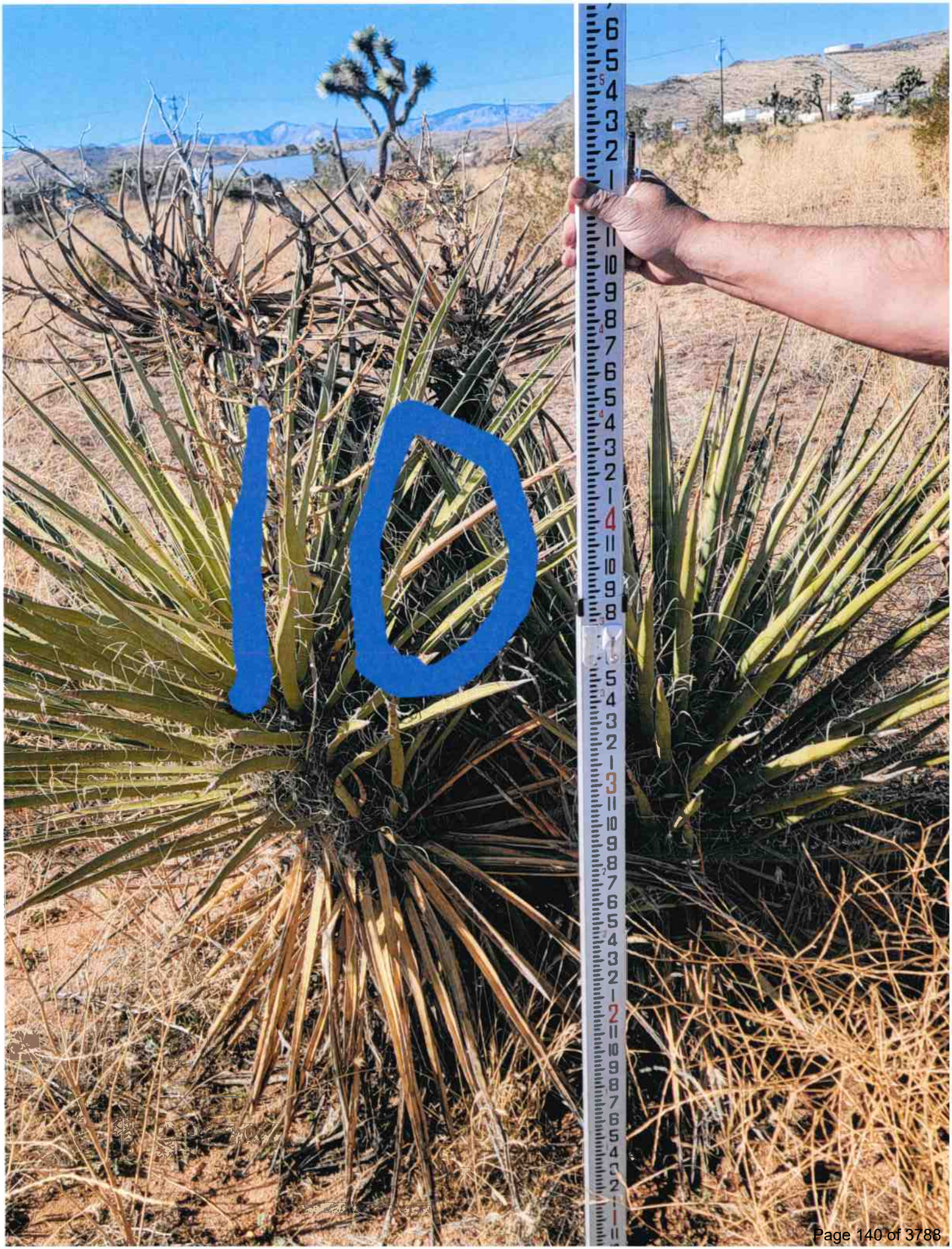
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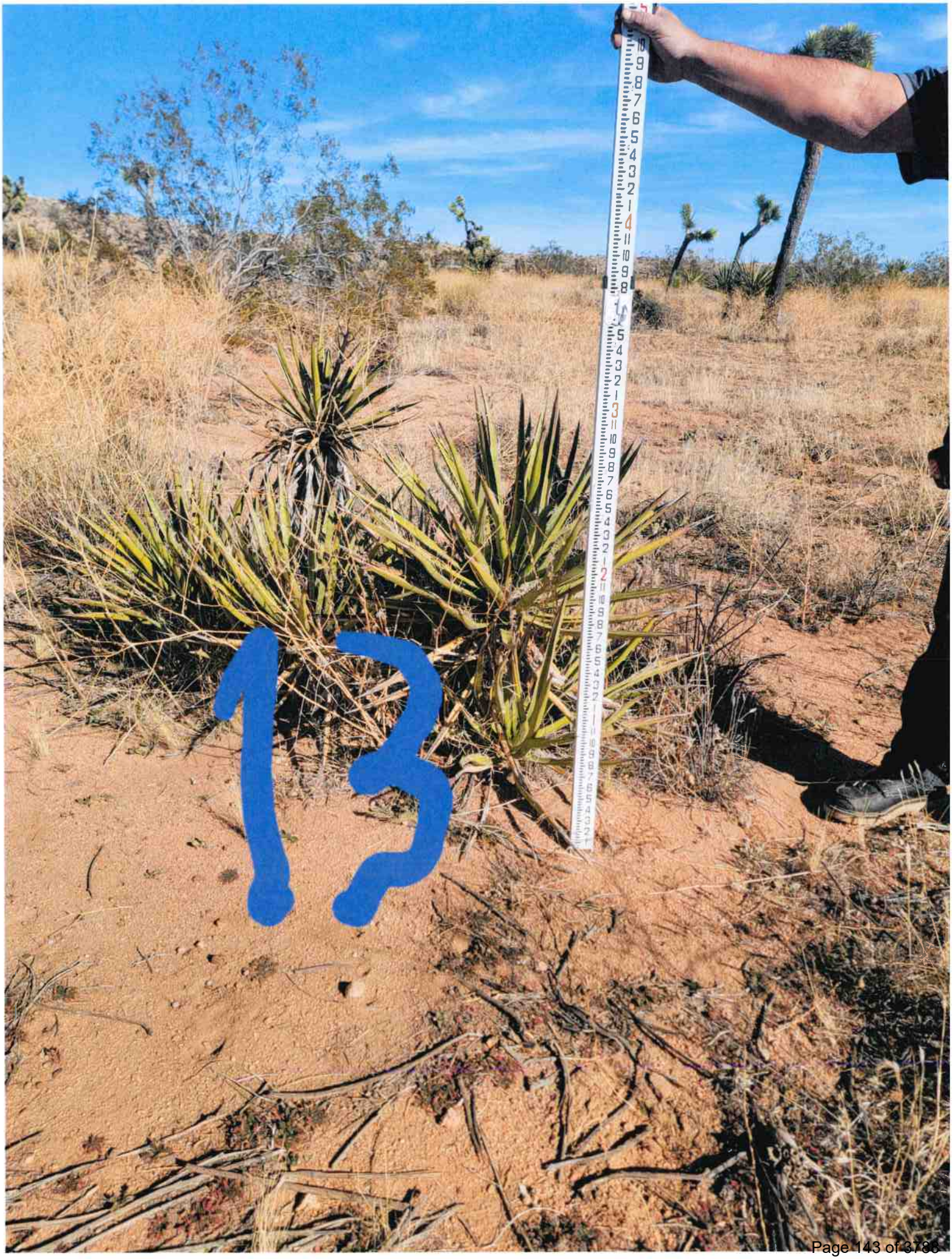
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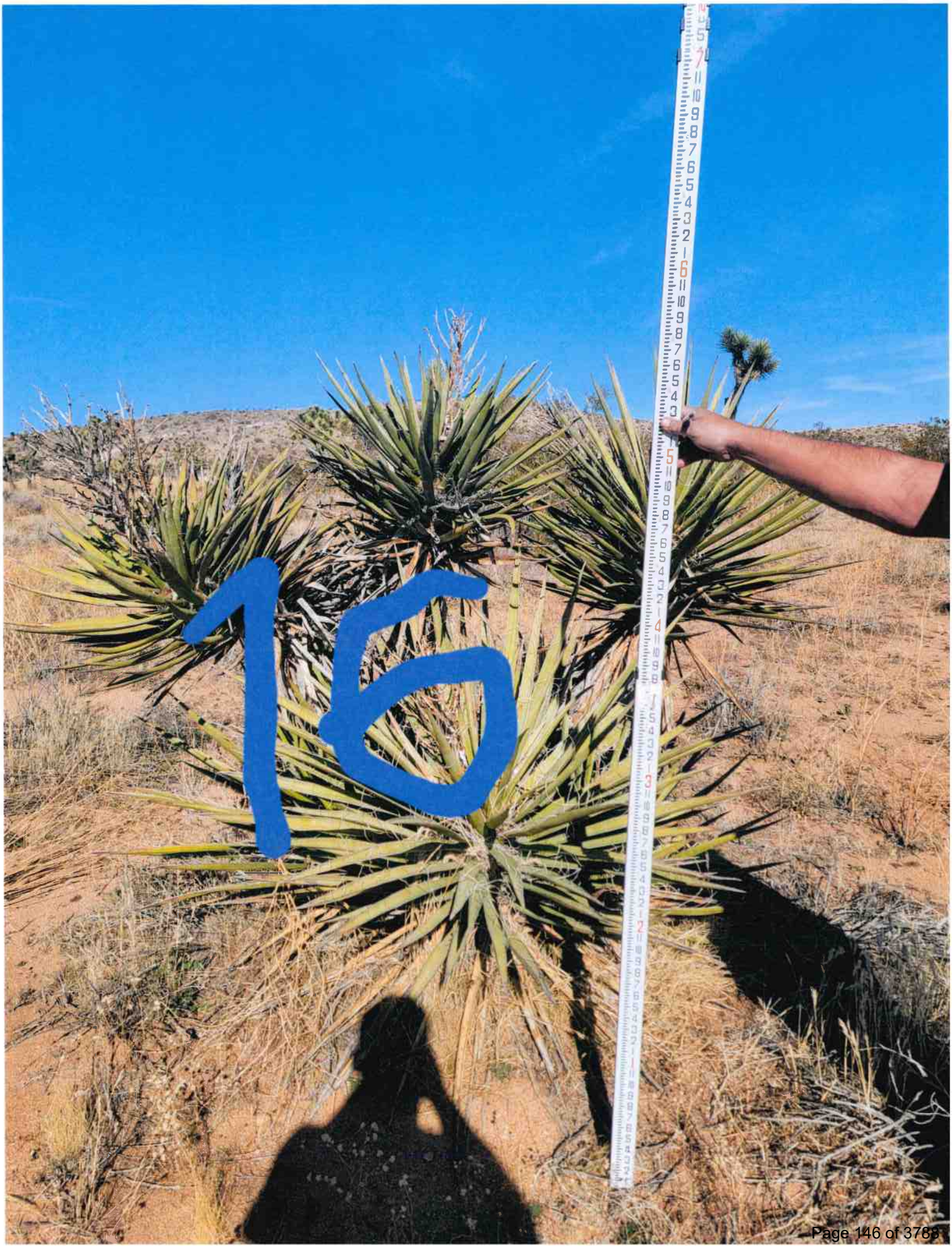
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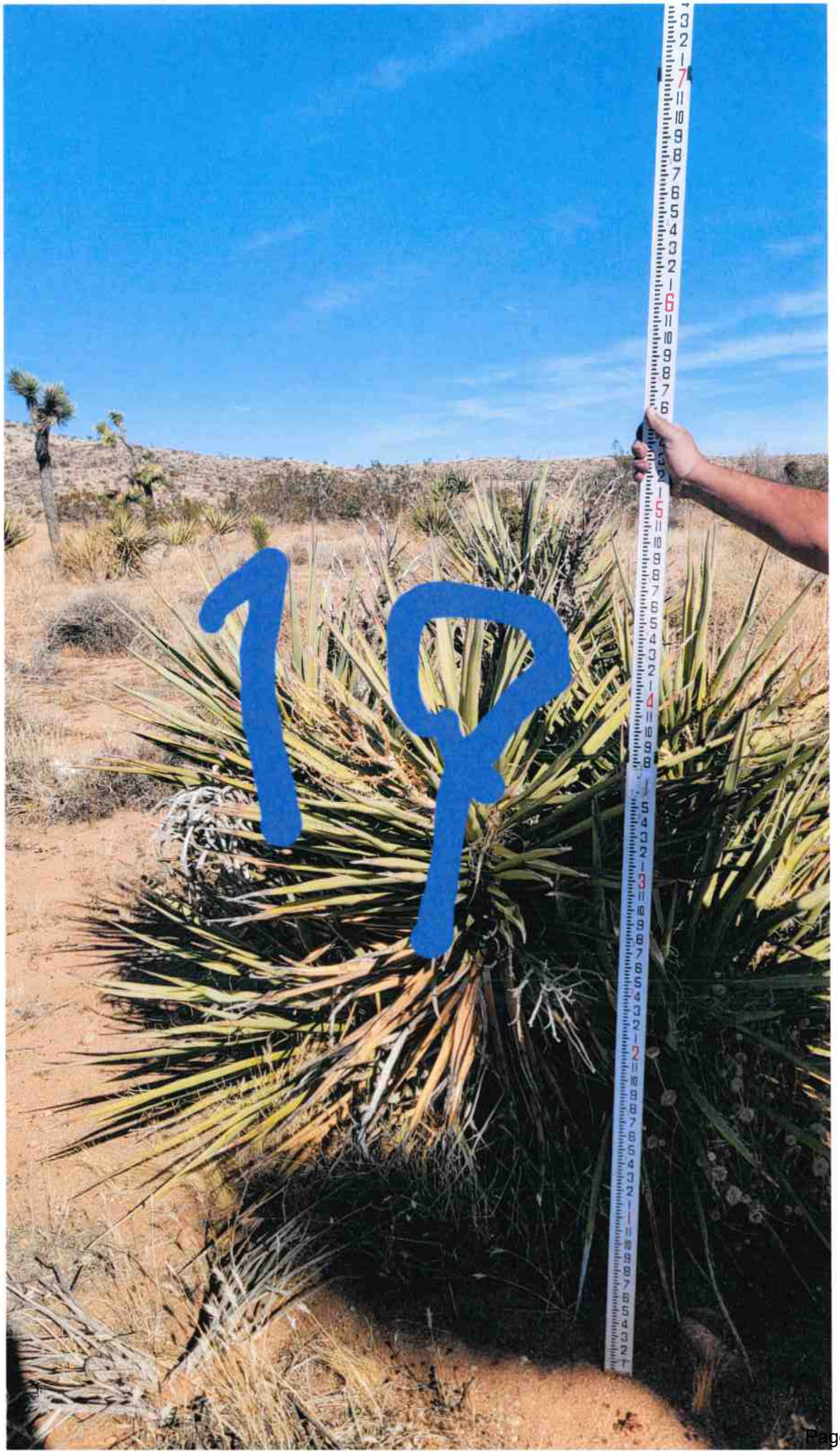
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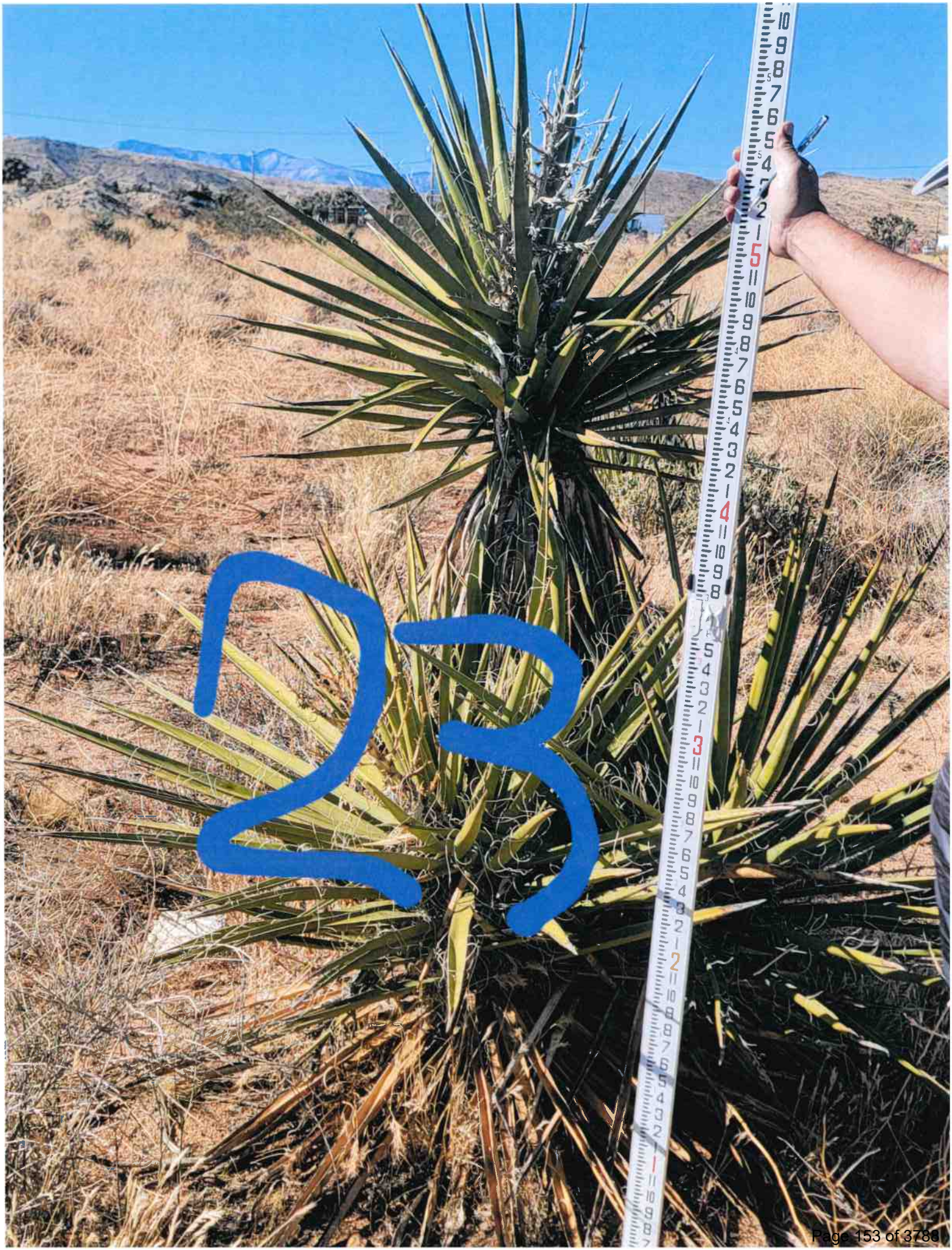
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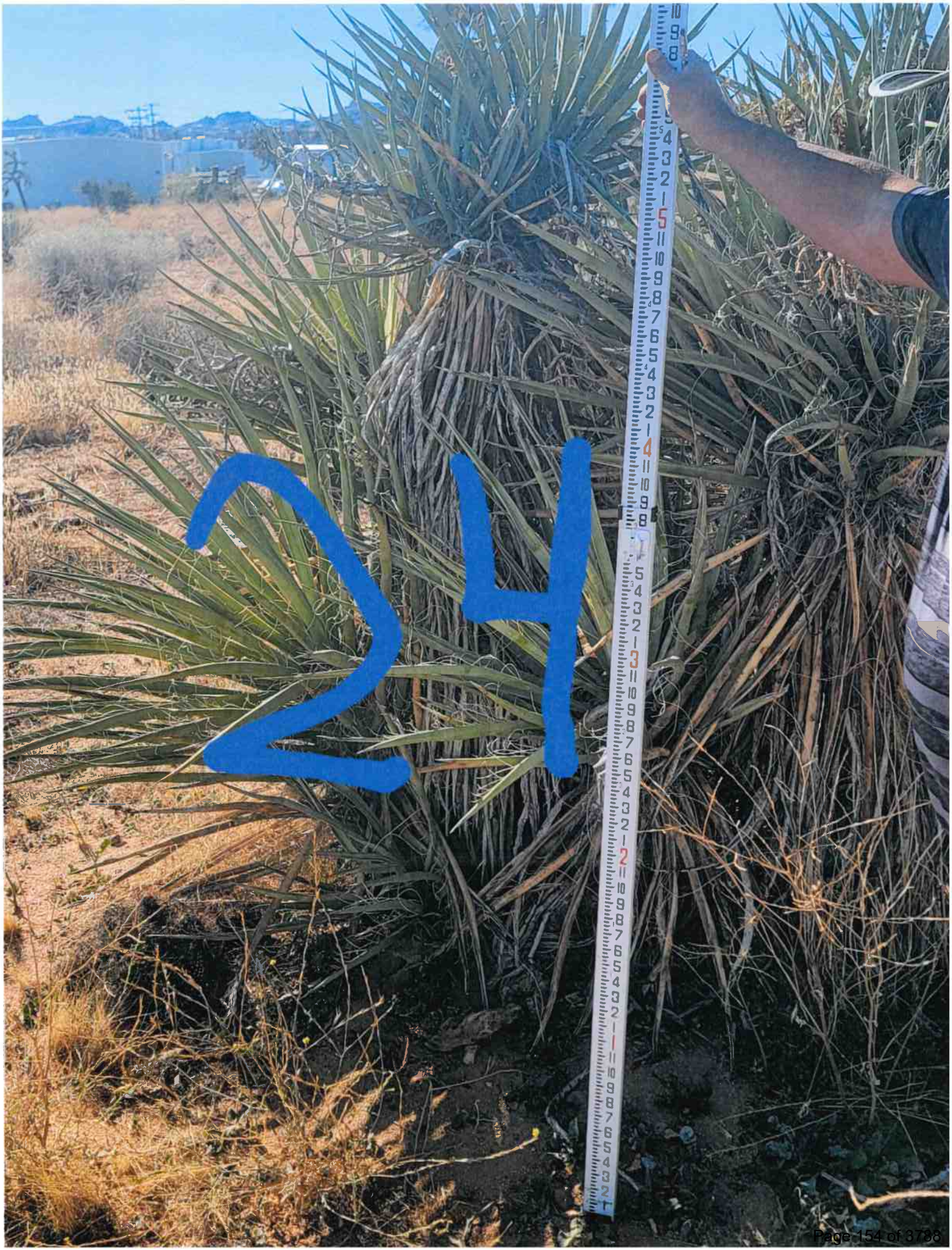
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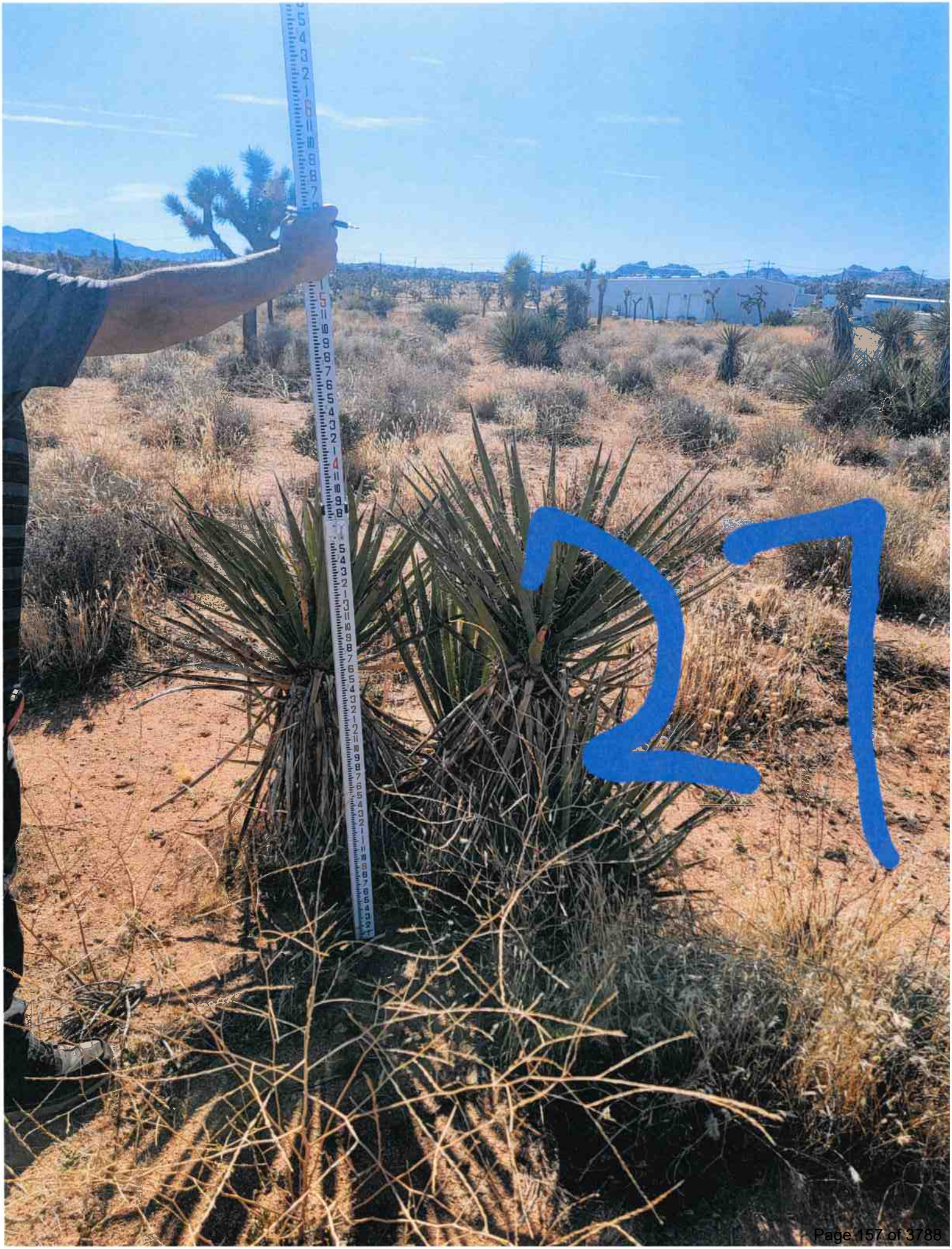
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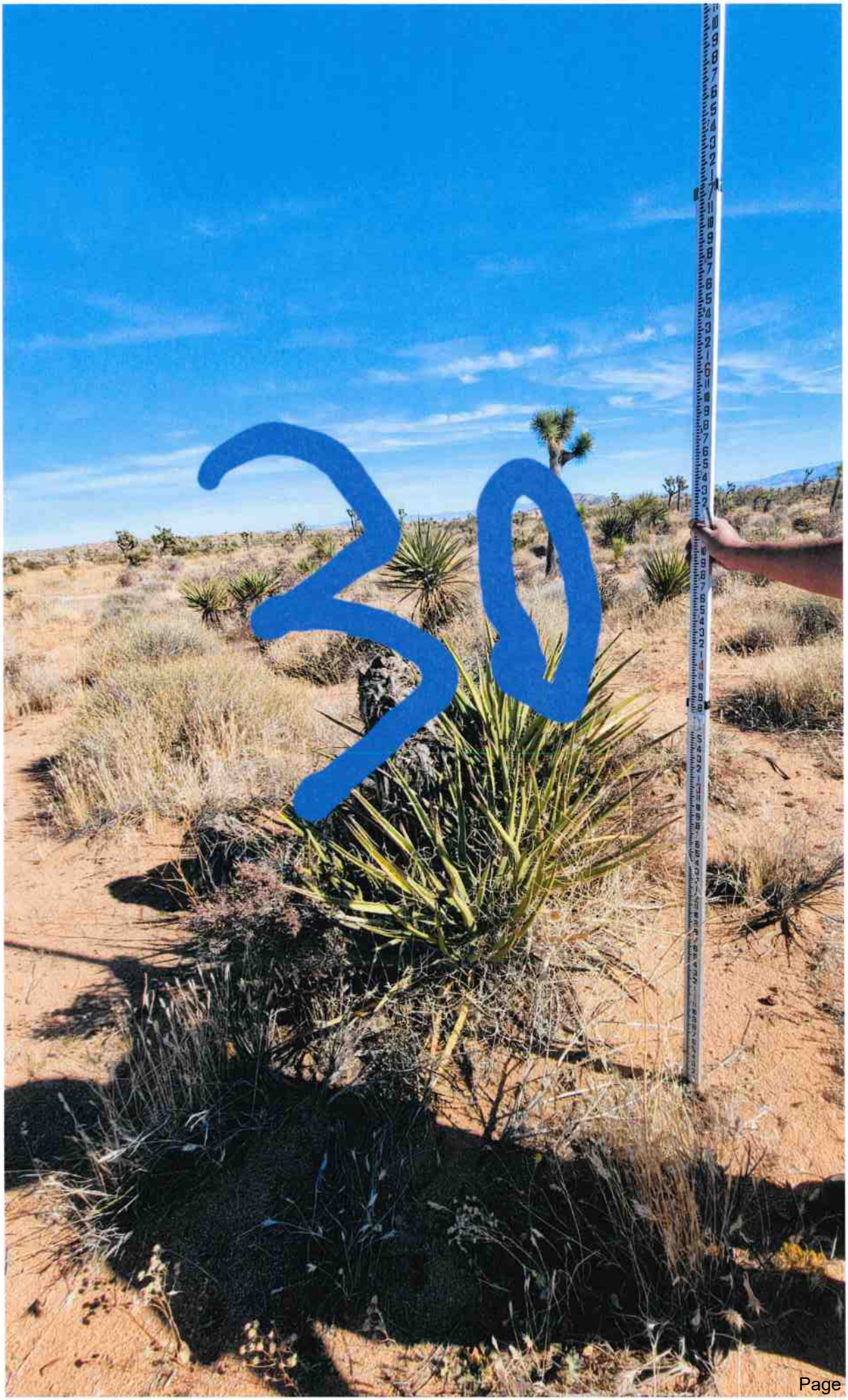
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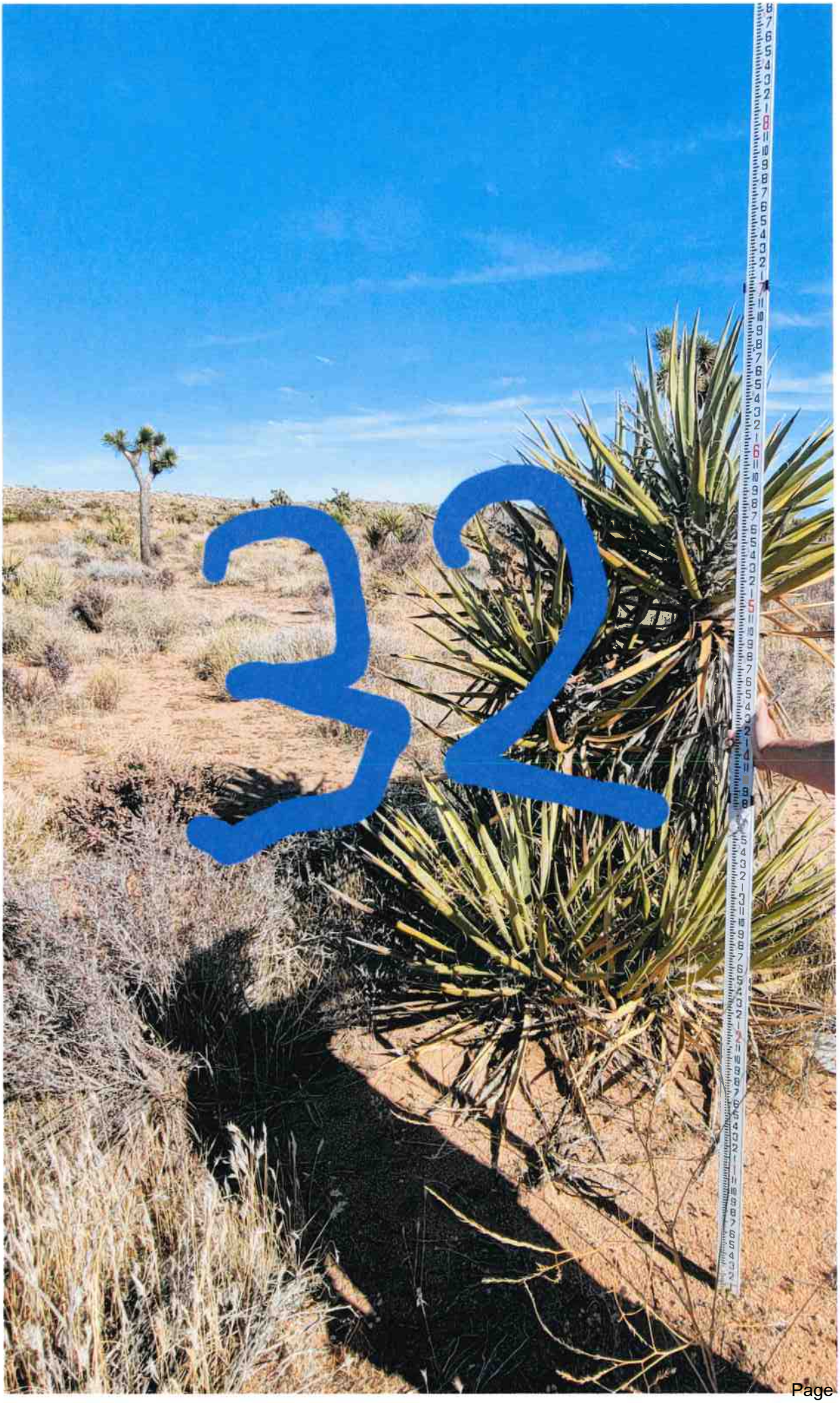
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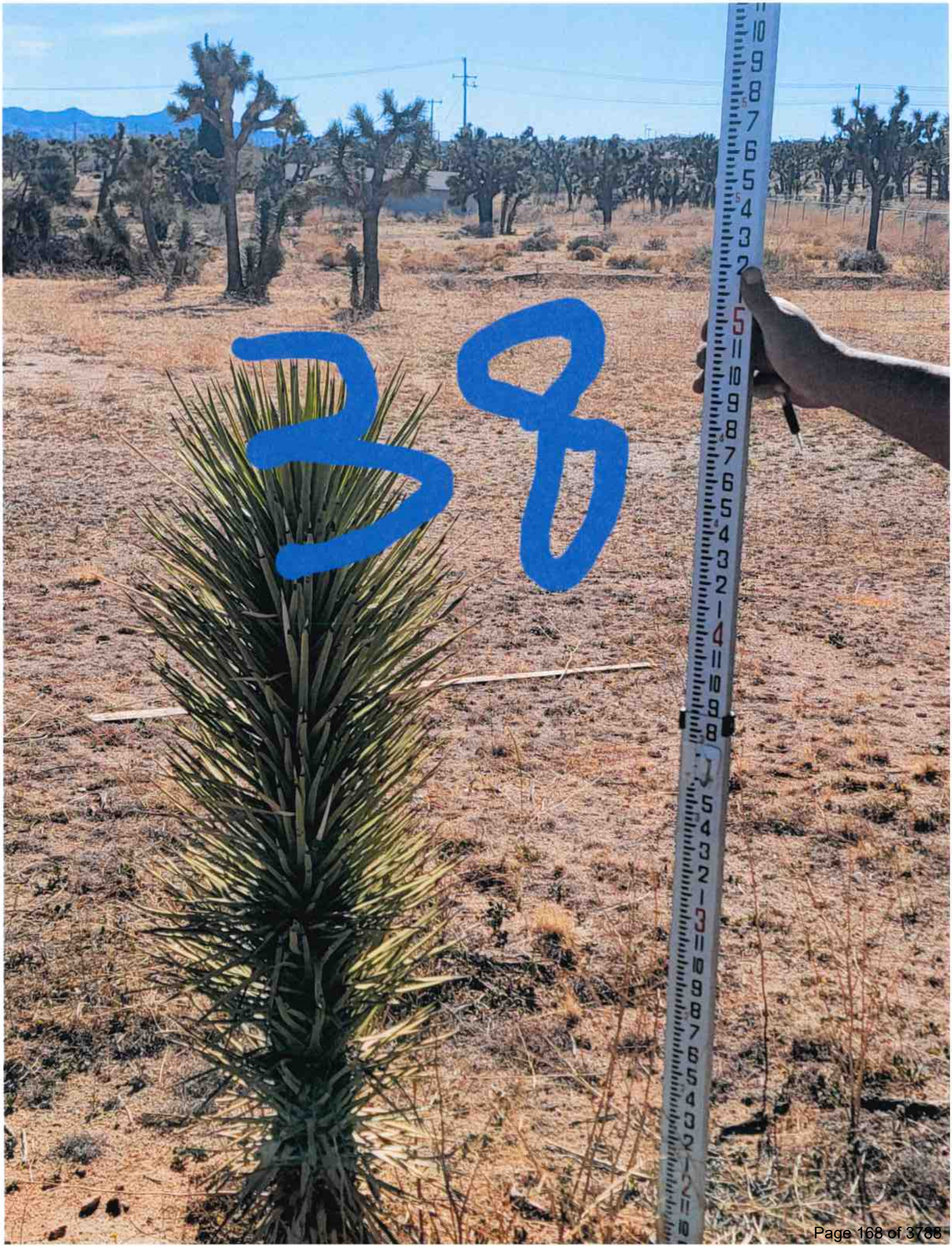
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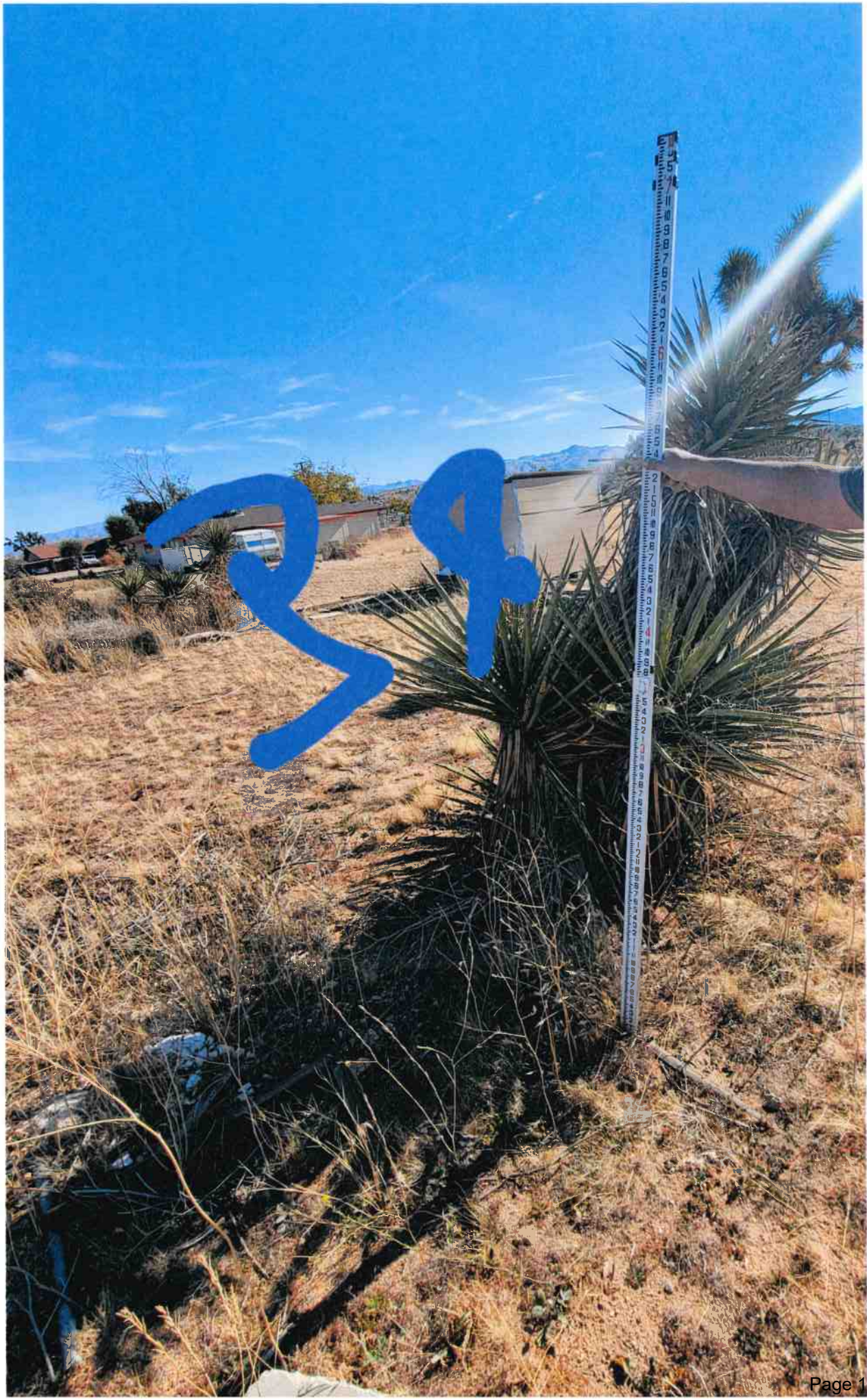

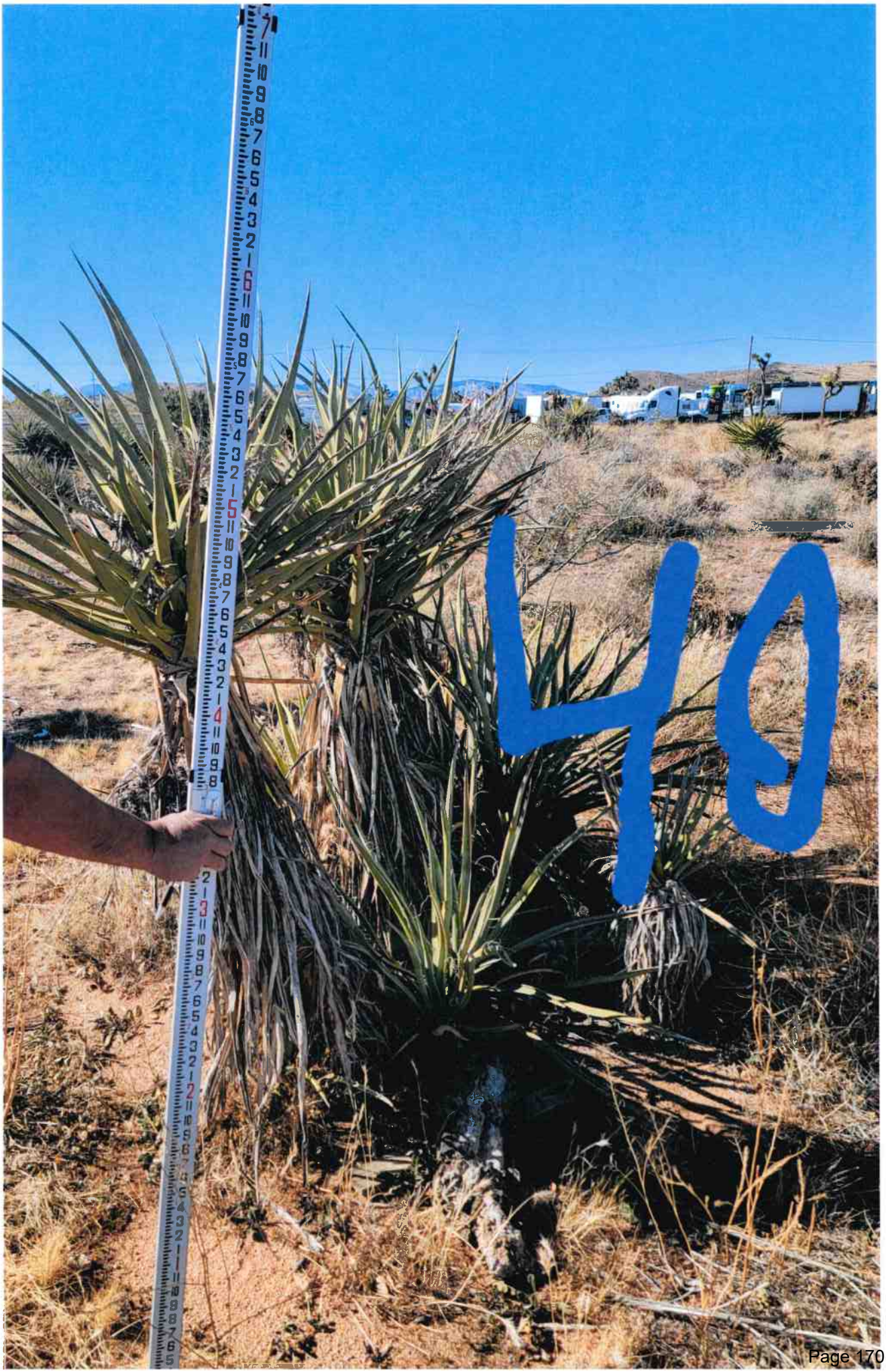
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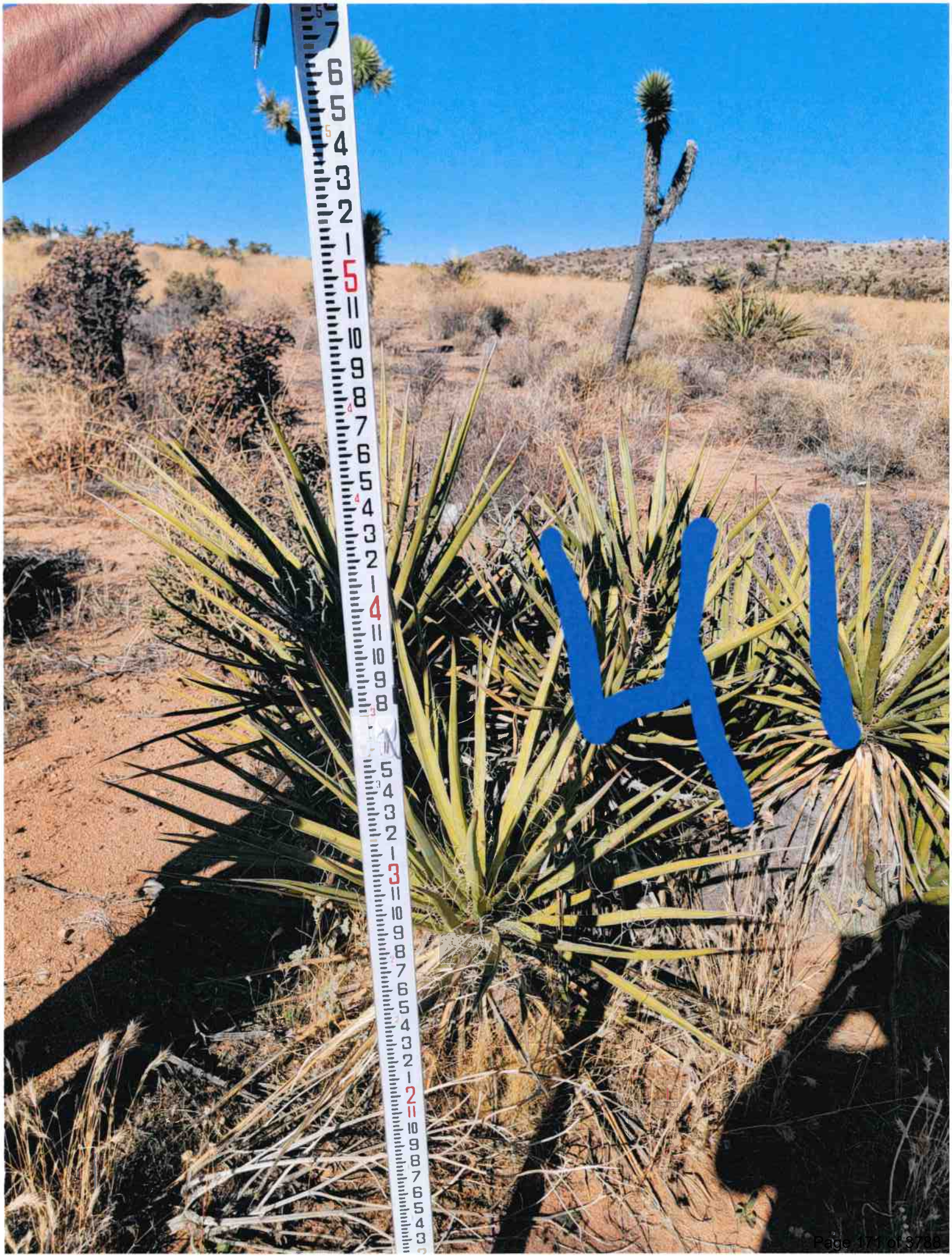
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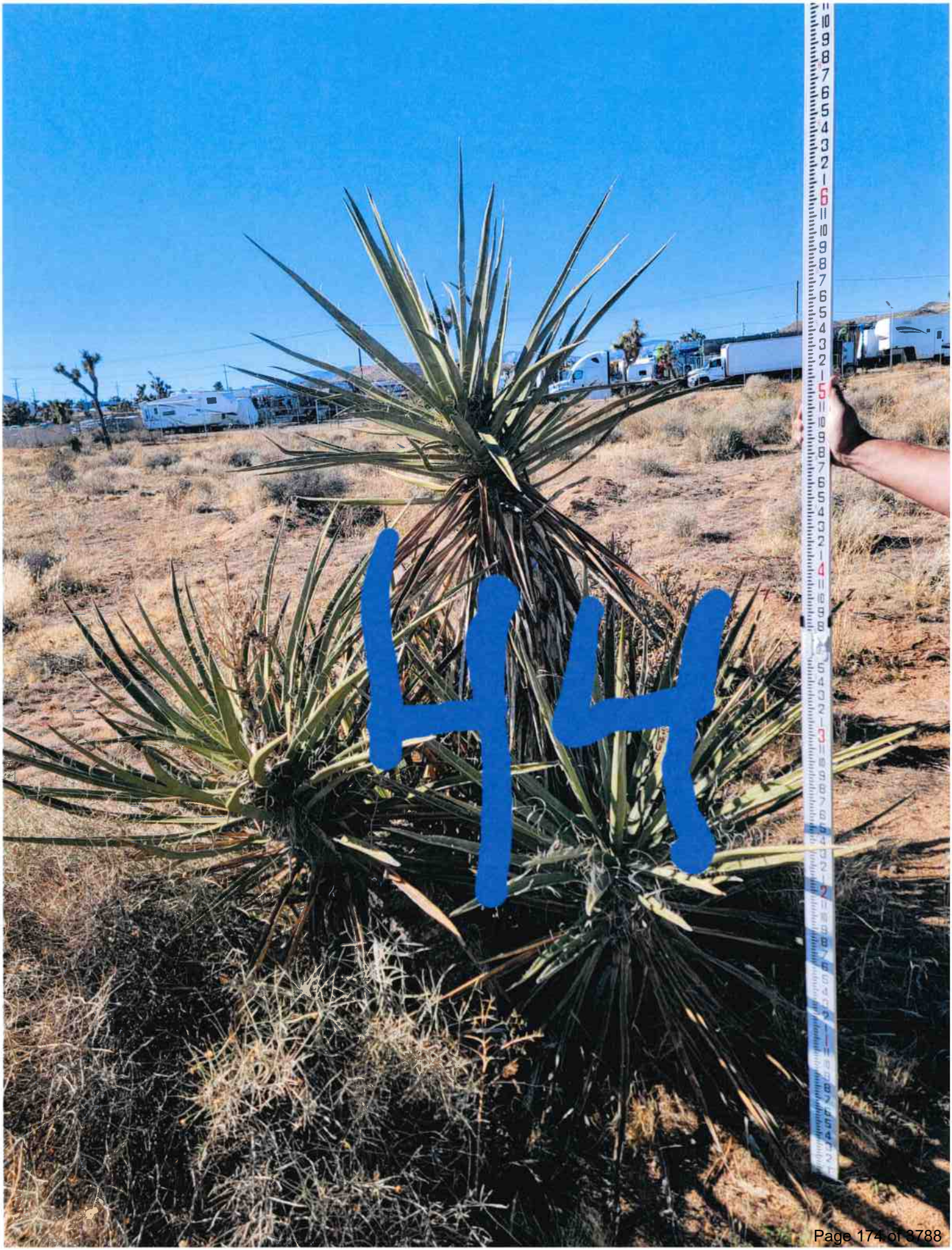
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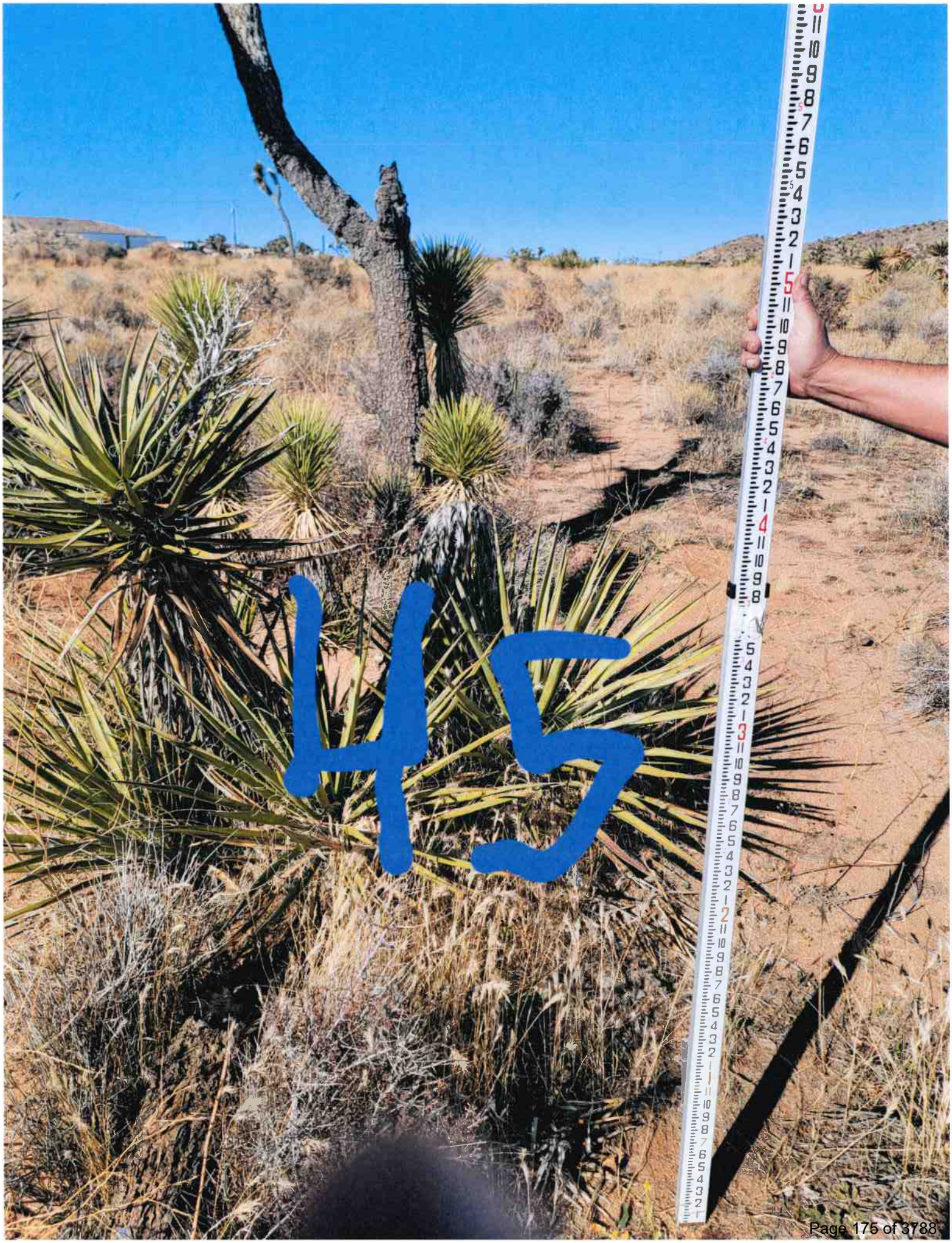

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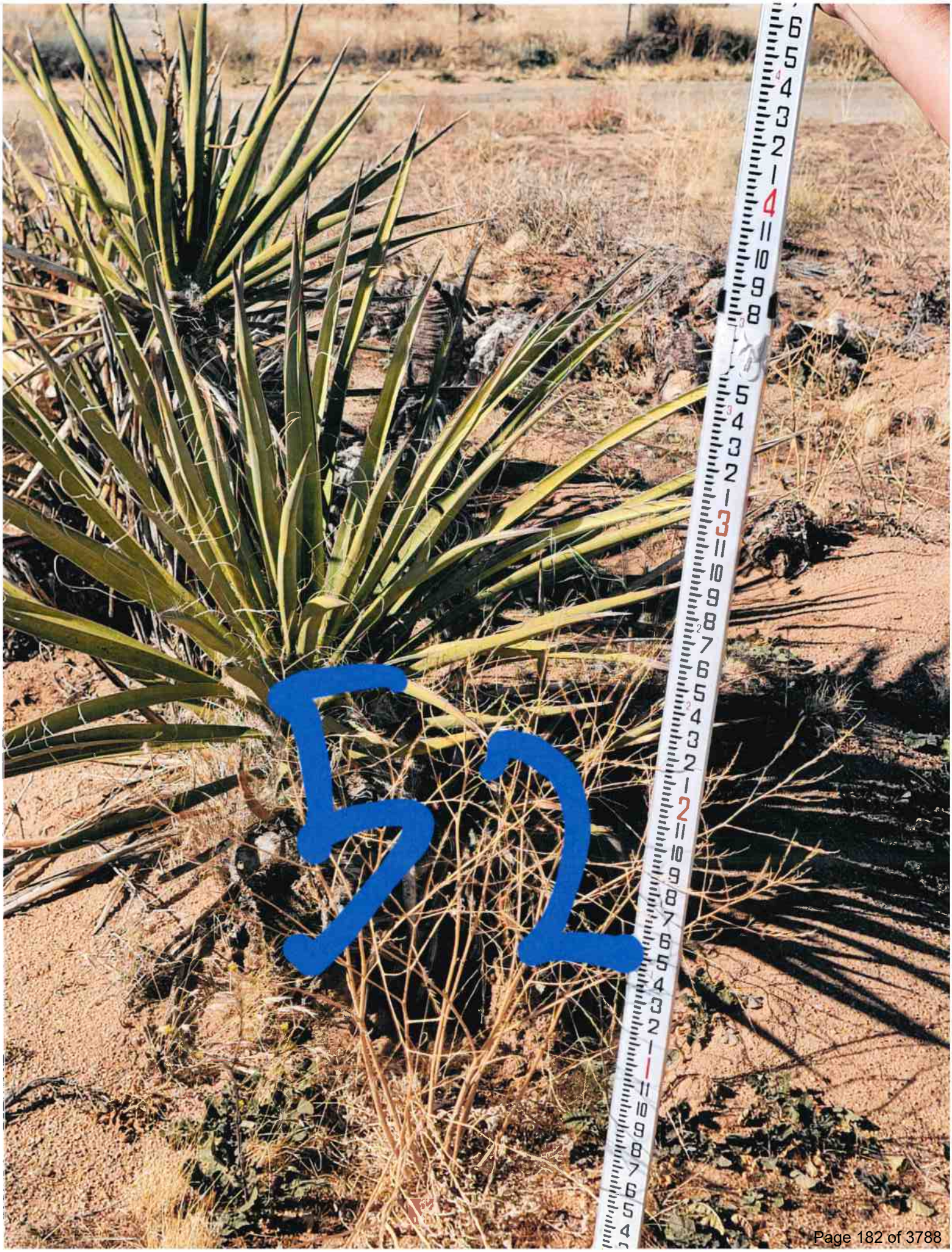
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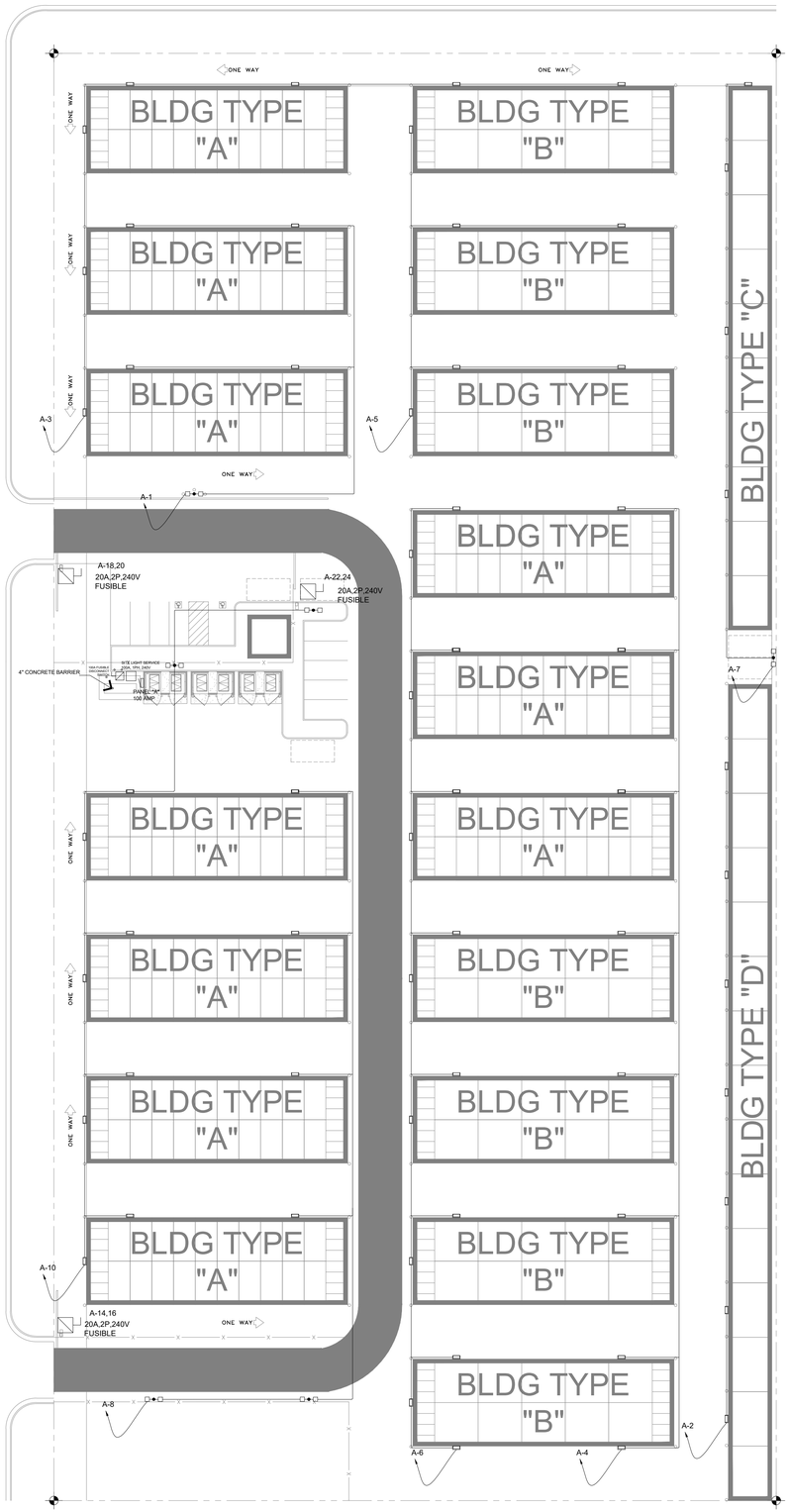
1 CJ

SUN MESA ROAD



SITE LIGHTING PLAN

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No.	Revision / Issue	Drawn by	Checked by	Date

DRP Enterprises

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REGISTERED PROFESSIONAL ENGINEER
JOHNNIE C. JONES
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03/31/2025
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

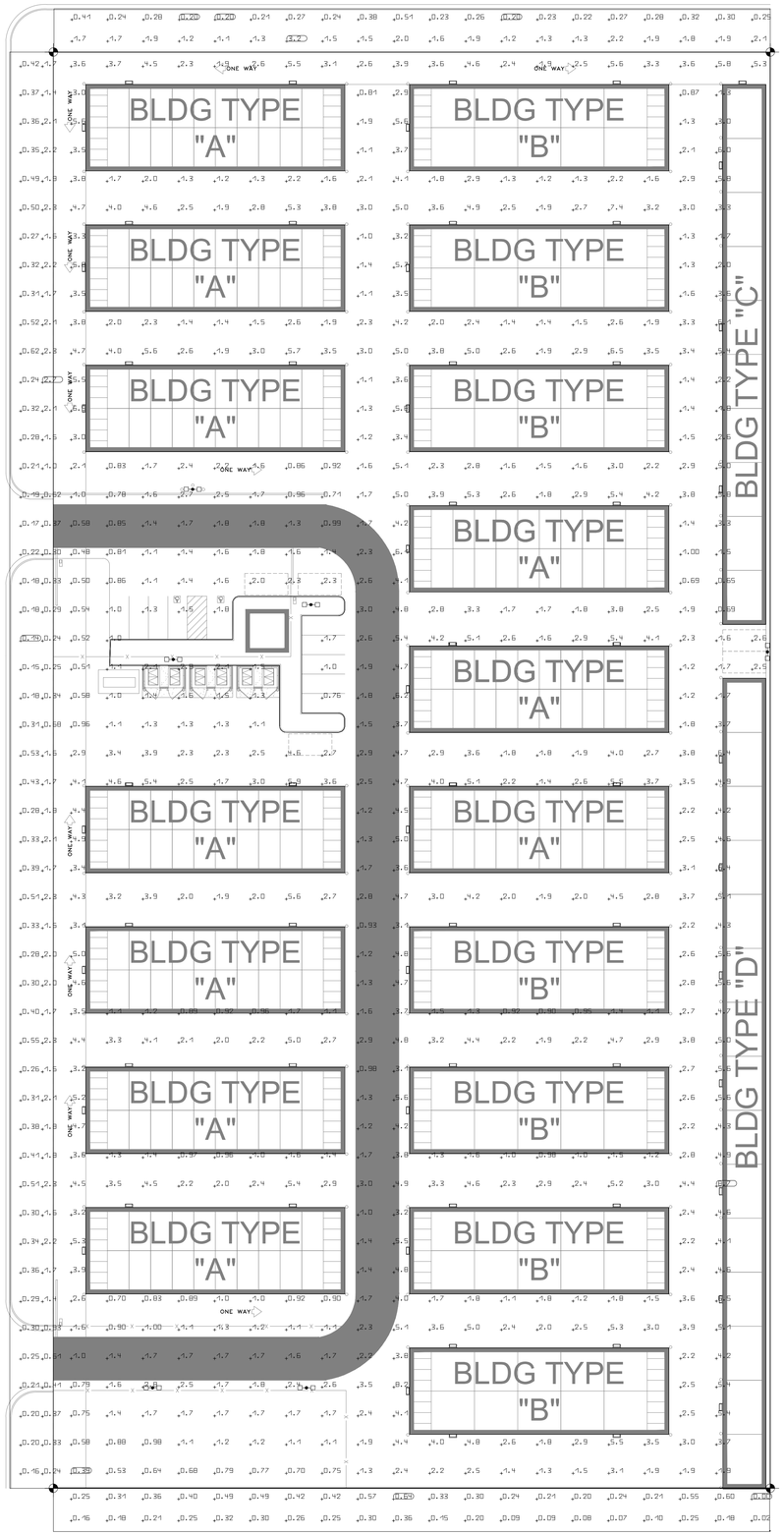
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1/32" = 1'-0"

Project Number & Sheet Number

ES.1



Luminaire list (Site 1)

Symbol	Index	Manufacturer	Article name	Item number	Fitting	Luminous flux	Light loss factor	Connected load	Quantity
▭	1	Lithonia Lighting	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1000mA.	DSXW1 LED 20C 1000 40K T2M MVOLT	1x LED	7373 lm	0.80	73.2 W	64
□◆□	2	Lithonia Lighting	DSX1 LED P1 40K T4M MVOLT	DSX1 LED P1 40K T4M MVOLT	1x LED	6816 lm	0.80	54 W	12

#	Name	Aiprometer	Min	Max	Average	Mean/Min	Max/Min
1	SITE	Perpendicular Illuminance	0.39 fc	8.66 fc	2.70 fc	6.96	22.36
2	20' BEYOND PROPERTY LINE 1	Perpendicular Illuminance	0.14 fc	2.67 fc	0.89 fc	6.19	18.69
3	20' BEYOND PROPERTY LINE 2	Perpendicular Illuminance	0.20 fc	3.19 fc	0.99 fc	4.97	15.99
4	20' BEYOND PROPERTY LINE 3	Perpendicular Illuminance	0.001 fc	0.64 fc	0.28 fc	198.7	460.7

SITE PHOTOMETRIC PLAN

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DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER JOANNE C. SINCLAIR C 24000 03/31/2025 CIVIL STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1/32" = 1'-0"

Project Number & Sheet Number

ES.2

240/120V, 1Φ, 4W

CABLE CALCULATION

FROM	TO	Total Connected Load (VA)	CABLE SIZE	Main Breaker Size	Cable Ampacities Table 310.15(B)(16) amper "AT"	CONDUCTOR/ PHASE	1P VOLTAGE DROP VD = (K x I x D)/CM						Ground Cable (NEC-250.122)(Insulated Copper)	Conduit for feeders (Table C1)
							CM(Circular mils) Chapter 9, Table 8	CABEL LENGTH D	Ampacity (240V,1Ph) I	ohms-cmil/ft K	VD	FEEDER V. DROP (%)		
LGT PANEL	LIGHTING CIRCUIT-1	400	10 AWG	20	35	1	10380	500	2	12.9	1.04	0.43	AWG#12	1"
	LIGHTING CIRCUIT-3	510	10 AWG	20	35	1	10380	600	2	12.9	1.58	0.66	AWG#12	1"
	LIGHTING CIRCUIT-5	510	10 AWG	20	35	1	10380	600	2	12.9	1.58	0.66	AWG#12	1"
	LIGHTING CIRCUIT-7	400	10 AWG	20	35	1	10380	600	2	12.9	1.24	0.52	AWG#12	1"
	LIGHTING CIRCUIT-2	510	10 AWG	20	35	1	10380	620	2	12.9	1.64	0.68	AWG#12	1"
	LIGHTING CIRCUIT-4	590	10 AWG	20	35	1	10380	745	2	12.9	2.28	0.95	AWG#12	1"
	LIGHTING CIRCUIT-6	1,100	10 AWG	20	35	1	10380	825	5	12.9	4.70	1.96	AWG#12	1"
	LIGHTING CIRCUIT-8	510	10 AWG	20	35	1	10380	630	2	12.9	1.66	0.69	AWG#12	1"
	LIGHTING CIRCUIT-10	800	10 AWG	20	35	1	10380	400	3	12.9	1.66	0.69	AWG#12	1"
	ROLLING GATES CIRCUIT-14,16	840	10 AWG	20	35	1	10380	320	4	12.9	1.39	0.58	AWG#12	1"
	ROLLING GATES CIRCUIT-18,20	840	10 AWG	20	35	1	10380	75	4	12.9	0.33	0.14	AWG#12	1"
	ROLLING GATES CIRCUIT-22,24	840	10 AWG	20	35	1	10380	120	4	12.9	0.52	0.22	AWG#12	1"

*	LOAD SUMMARY	CL	DF	CONNECTED LOAD A	CONNECTED LOAD B	DEMAND TOTAL
L	Lighting	5.33	1.25	3.32	2.01	6.66
R	Convenience Recept					
H	Heating (Space)		1.25			
C	Cooling		1.00			
A	HVAC		1.00			
P	Process		1.00			
O	Other Continuous		1.25			
K	Kitchen		0.65			
N	Noncontinuous		1.00			
M	Motor	4.20	1.00	2.10	2.10	4.20
	Total	**9.53**		5.42	4.11	10.86

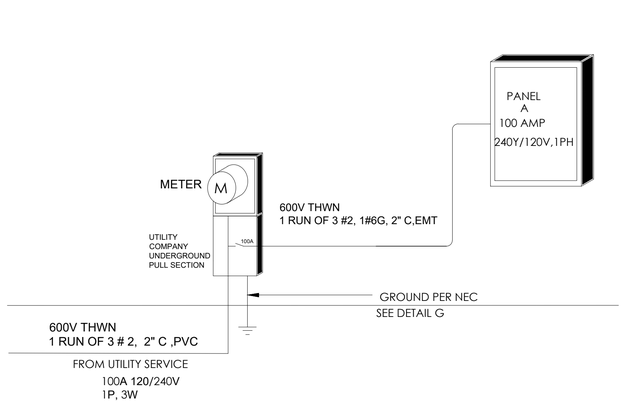
Total Demand Load (KVA)	10.86
Total Demand Current (A)	45.27
Min. Feeder Ampacity (A)	56.58

LTG PANEL

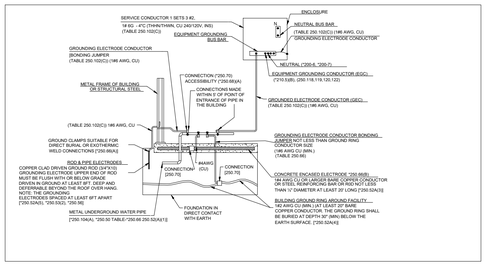
PANELBOARD DESIGNATION

SYSTEM VOLTAGE	240/120V, 1Φ, 3W
BUS SIZE	100
SYSTEM TYPE	NORMAL
FEEDER PROT	100A-2P CB BUS PLUG
CONDUCTOR SIZE	2 AWG - #6G CU
CONDUCTOR/PHASE	1
MAINS	100A MCB
SCCR	FULLY RATED
MCB RATING	80%
GROUND FAULT	NO
FEEDER LENGTH (FT)	100
FEEDER V. DROP (%)	1.620
FAULT CURRENT	
KAIC RATING	42
ENCLOSURE	TYPE 1

	DESCRIPTION	*	CB	KVA	A	B	KVA	CB	DESCRIPTION	*	
1	LIGHTING CIRCUIT WITH TIME CONTROL	L	20A-1P	0.40	0.91		0.51	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	2
3	LIGHTING CIRCUIT WITH TIME CONTROL	L	20A-1P	0.51		1.10	0.59	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	4
5	LIGHTING CIRCUIT WITH TIME CONTROL	L	20A-1P	0.51	1.61		1.10	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	6
7	LIGHTING CIRCUIT WITH TIME CONTROL	L	20A-1P	0.40		0.91	0.51	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	8
9	SPARE		20A-1P		0.80		0.80	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	10
11	SPARE		20A-1P					20A-1P	SPACE		12
13	SPARE		20A-1P		0.42		0.42	20A-2P	ROLLING SECURITY GATES	M	14
15	SPARE		20A-1P			0.42	0.42			M	16
17	SPARE		20A-1P		0.42		0.42	20A-2P	ROLLING SECURITY GATES	M	18
19	SPARE		20A-1P			0.42	0.42			M	20
21	SPARE		20A-1P		0.42		0.42	20A-2P	ROLLING SECURITY GATES	M	22
23	SPARE		20A-1P			0.42	0.42			M	24
25	SPARE		20A-1P						SPACE		26
27	SPARE		20A-1P						SPACE		28
29	SPARE		20A-1P						SPACE		30
31	SPARE		20A-1P						SPACE		32
33	SPARE		20A-1P						SPACE		34
35	SPARE		20A-1P						SPACE		36
37	SPARE		20A-1P						SPACE		38
39	SPARE		20A-1P						SPACE		40
41	SPARE		20A-1P						SPACE		42
				(KVA)							
				Total Connected Load	4.58	3.27		Updated	xx.xx.xxxx		



UFER GROUND NOTE :
ALL STEEL REBARS MEASURING 1/2 " OR MORE IN DIAMETER AND 20 ' OR LONGER IN LENGTH THAT IS ENCASED IN NOT LESS THAN 2 INCHES OF CONCRETE SHALL BE BONDED TO THE BUILDING'S GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH NEC 250 (ELECTRICAL SUB CODE) SECTION 250.52(A)(3). THE "UFER" GROUND CAN BE 20 L.F. OF #2 OR #4 COPPER WIRING LAID INSIDE THE FOOTING AND THE SAME WIRE IS LONG ENOUGH TO REACH TO THE LOCATION OF THE MAIN ELECTRICAL PANEL OF THE HOUSE UFER GROUND CAN BE (1) L-SHAPED PIECE OF #4 STEEL REBAR CONNECTED TO THE OTHER STEEL REBAR IN THE FOOTING AND STICKING OUT IN SUFFICIENT LENGTH FOR CONNECTION AT THE LOCATION OF THE MAIN ELECTRICAL PANEL OF THE HOUSE



DETAIL "G" OF GROUNDING ELECTRODE SYSTEM (* 250.50)
& GROUNDING ELECTRODES (*250.52) AS SERVICE

SCALE: NTS

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SINGLE LINE DIAGRAM AND PANEL BOARD SCHEDULE

No.	Revision / Issue	Drawn by	Checked by	Date

DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER
JOANNE C. SINGH
C 24000
12/31/2025
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

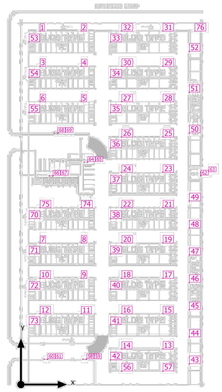
NTC

Project Number & Sheet Number

ES.3

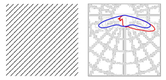
Site 1

Luminaire layout plan



Site 1

Luminaire layout plan



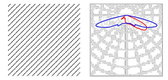
Manufacturer	Lithonia Lighting
Article No.	DSX1 LED P1 40K T4M MVOLT
Article name	DSX1 LED P1 40K T4M MVOLT

Individual luminaires

X	Y	Mounting height	Luminaire
120.288 ft	46.430 ft	20.000 ft	58
114.073 ft	46.586 ft	20.000 ft	59
48.981 ft	46.448 ft	20.000 ft	60
42.765 ft	46.603 ft	20.000 ft	61
330.729 ft	384.281 ft	20.000 ft	62
330.638 ft	390.283 ft	20.000 ft	63
122.402 ft	409.109 ft	20.000 ft	64
116.187 ft	409.265 ft	20.000 ft	65
58.609 ft	383.829 ft	20.000 ft	66
52.394 ft	383.984 ft	20.000 ft	67
67.563 ft	462.586 ft	20.000 ft	68
61.348 ft	462.741 ft	20.000 ft	69

Site 1

Luminaire layout plan



Manufacturer	Lithonia Lighting
Article No.	DSXW1 LED 20C 1000 40K T2M MVOLT
Article name	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1000mA.

Individual luminaires

X	Y	Mounting height	Luminaire
34.851 ft	650.139 ft	12.000 ft	1
110.931 ft	650.139 ft	12.000 ft	2
35.022 ft	585.140 ft	12.000 ft	3
110.899 ft	585.140 ft	12.000 ft	4
110.983 ft	520.141 ft	12.000 ft	5
35.057 ft	520.143 ft	12.000 ft	6
35.004 ft	260.144 ft	12.000 ft	7
110.866 ft	260.144 ft	12.000 ft	8
110.826 ft	195.144 ft	12.000 ft	9
34.980 ft	195.144 ft	12.000 ft	10
110.917 ft	130.145 ft	12.000 ft	11
34.977 ft	130.145 ft	12.000 ft	12
260.864 ft	65.146 ft	12.000 ft	13

Site 1

Luminaire layout plan

X	Y	Mounting height	Luminaire
185.039 ft	65.146 ft	12.000 ft	14
260.899 ft	130.145 ft	12.000 ft	15
185.233 ft	130.145 ft	12.000 ft	16
261.201 ft	195.144 ft	12.000 ft	17
185.112 ft	195.144 ft	12.000 ft	18
261.008 ft	260.144 ft	12.000 ft	19
185.268 ft	260.143 ft	12.000 ft	20
260.985 ft	325.143 ft	12.000 ft	21
185.032 ft	325.143 ft	12.000 ft	22
260.848 ft	390.127 ft	12.000 ft	23
185.131 ft	390.127 ft	12.000 ft	24
260.977 ft	455.131 ft	12.000 ft	25
185.034 ft	455.141 ft	12.000 ft	26
185.159 ft	520.141 ft	12.000 ft	27
260.916 ft	520.141 ft	12.000 ft	28
260.903 ft	585.140 ft	12.000 ft	29
185.077 ft	585.140 ft	12.000 ft	30
260.762 ft	650.139 ft	12.000 ft	31
184.839 ft	650.123 ft	12.000 ft	32
164.873 ft	630.040 ft	12.000 ft	33
164.873 ft	565.033 ft	12.000 ft	34
164.873 ft	500.141 ft	12.000 ft	35
164.873 ft	435.018 ft	12.000 ft	36
164.873 ft	370.042 ft	12.000 ft	37

Site 1

Luminaire layout plan

X	Y	Mounting height	Luminaire
164.873 ft	304.947 ft	12.000 ft	38
164.873 ft	240.079 ft	12.000 ft	39
164.873 ft	175.120 ft	12.000 ft	40
164.833 ft	110.100 ft	12.000 ft	41
164.871 ft	45.019 ft	12.000 ft	42
309.868 ft	37.973 ft	12.000 ft	43
309.868 ft	87.373 ft	12.000 ft	44
309.868 ft	137.659 ft	12.000 ft	45
309.868 ft	187.519 ft	12.000 ft	46
309.868 ft	237.720 ft	12.000 ft	47
309.868 ft	287.483 ft	12.000 ft	48
309.868 ft	337.385 ft	12.000 ft	49
309.828 ft	462.522 ft	12.000 ft	50
309.828 ft	537.420 ft	12.000 ft	51
309.828 ft	612.617 ft	12.000 ft	52
14.875 ft	630.109 ft	12.000 ft	53
14.835 ft	565.067 ft	12.000 ft	54
14.875 ft	500.050 ft	12.000 ft	55
185.037 ft	24.922 ft	12.000 ft	56
260.864 ft	24.922 ft	12.000 ft	57
14.875 ft	304.823 ft	12.000 ft	70
14.875 ft	240.114 ft	12.000 ft	71
14.875 ft	175.075 ft	12.000 ft	72
14.875 ft	109.949 ft	12.000 ft	73

Site 1

Luminaire layout plan

X	Y	Mounting height	Luminaire
110.846 ft	325.113 ft	12.000 ft	74
34.962 ft	325.127 ft	12.000 ft	75
319.686 ft	650.135 ft	12.000 ft	76

PHOTOMETRIC DATA

IF THESE DRAWINGS ARE SMALLER THAN 36" x 24" THEY HAVE BEEN REDUCED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS.

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No.	Revision / Issue	Drawn by	Checked by	Date

DRP Enterprises

Engineer

REGISTERED PROFESSIONAL ENGINEER
JOANNE C. PHAM
C 24900
6/30/2025
CIVIL
STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

NTC

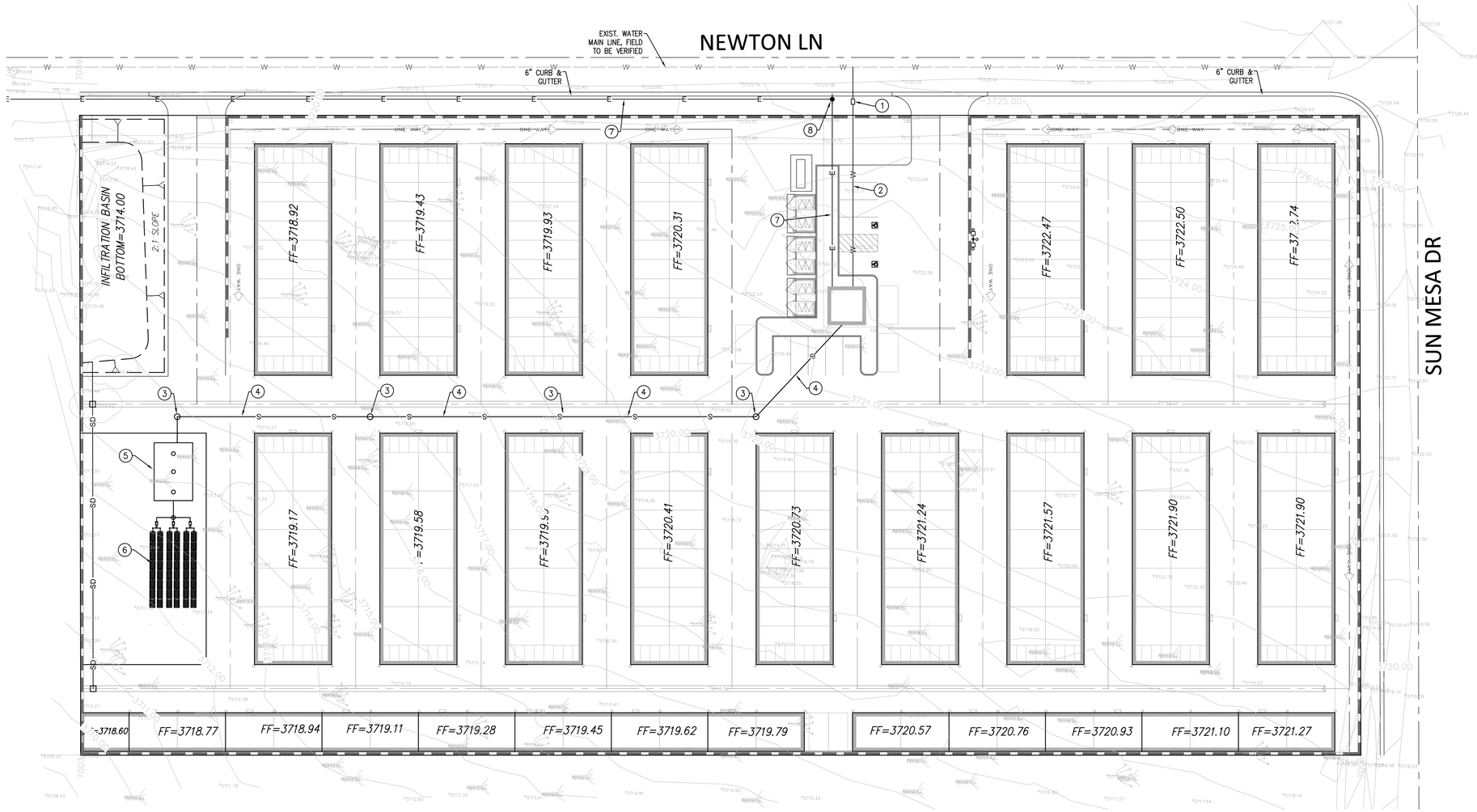
Project Number & Sheet Number

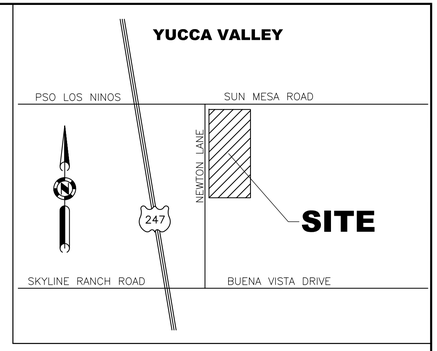
ES.4

PRELIMINARY SEWER, WATER AND ELECTRICAL LINE

SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67





VICINITY MAP

NTS

LEGEND:

	CENTERLINE	EP	EDGE OF PAVEMENT
	PROPERTY LINE	FF	FINISHED FLOOR
W	WATER LINE	FG	FINISHED GROUND
S	SEWER LINE	FL	FLOW LINE
E	ELECTRIC LINE	FS	FINISHED SURFACE
GAS GAS	GAS LINE	GB	GRADE BREAK
X	EXIST. CHAIN LINK FENCE	HP	HIGH POINT
	EXIST. WOOD FENCE	INV	INVERT ELEVATION
	EXIST. BLOCK WALL	PAD	PAD ELEVATION
944	EXIST. CONTOUR LINE	RET.	RETAINING WALL
945.0 FS	EXIST. SPOT ELEVATION	TC	TOP OF CURB
	EXIST. FIRE HYDRANT	TG	TOP OF GRATE
	EXIST. POWER POLE		
S	EXIST. SEWER MANHOLE		
	EXIST. STORM DRAIN MANHOLE		
WM	EXIST. WATER METER		
	EXIST. WATER VALVE		
	EXIST. TREE		

CONSTRUCTION NOTE:

1. INSTALL 1" WATER METER
2. INSTALL 2" WATER SERVICE LINE
3. INSTALL SEWER CLEANOUT
4. INSTALL 6" SEWER LINE
5. INSTALL SEPTIC TANK
6. INSTALL LEACH LINE
7. INSTALL ELECTRICAL POWER LINE
8. INSTALL POWER POLE

LEGAL DESCRIPTION:

TR 8749, MB 120/50-64 SEC. 13, T1N, R5E., S.B.B.&M.
APN: 0597-111-67

BASIS OF BEARING :

THE SOUTHWEST 1/4 OF SECTION 13 PER TRACT 8749, MB 120/50-64 SAID BEARING BEING N00°00'08"E

BENCHMARK :

USGS BM 705 24
ELEVATION = 3718.55 FEET, NAVD 88

OWNER/DEVELOPER

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

NORTH

0 15' 30' 60'

SCALE: 1"=30'

SHEET 1 OF 1

DRP ENTERPRISES LLC
Daniel Patneaude
MAILING ADDRESS:
PO Box 4428
Palm Springs, CA 92263
206-734-7765
Joanne C. Singer RCE 26900
760-625-7426

DRP Enterprises

PRELIMINARY GRADING PLAN

SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67

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ROB BILLINGS
5024 WALLABY STREET
YUCCA VALLEY CA 92284
760-686-4171
BILLINGSTRANSFER@YAHOO.COM

TOPOGRAPHY:

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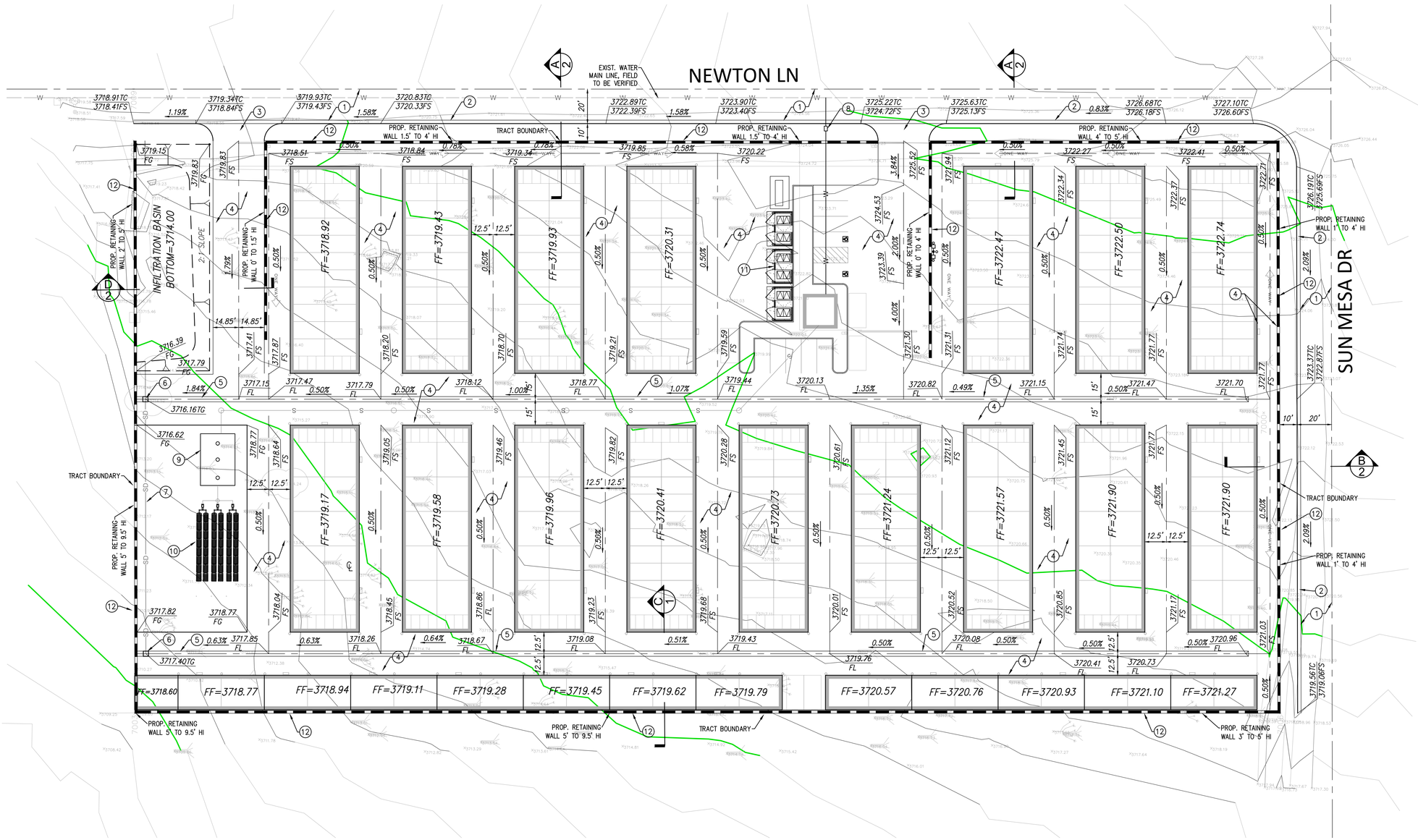
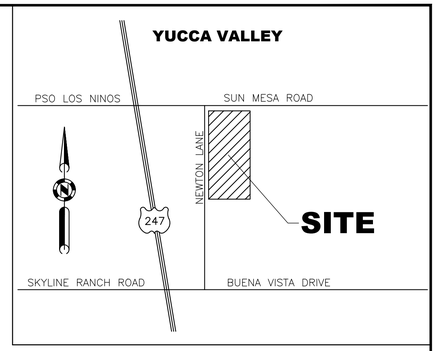
DESERT HOT SPRINGS , CA 92240
(760) 288-2232
SURVEY@LSAPCONSULTANTS.COM
DATE OF SURVEY JAN 2022





VICINITY MAP

NTS

LEGEND:

	CENTERLINE
	PROPERTY LINE
W	WATER LINE
S	SEWER LINE
OHE	ELECTRIC LINE
GAS GAS	GAS LINE
X	EXIST. CHAIN LINK FENCE
	EXIST. WOOD FENCE
	EXIST. BLOCK WALL
944	EXIST. CONTOUR LINE
945.0 FS	EXIST. SPOT ELEVATION
	EXIST. FIRE HYDRANT
	EXIST. POWER POLE
	EXIST. SEWER MANHOLE
	EXIST. STORM DRAIN MANHOLE
WM	EXIST. WATER METER
	EXIST. WATER VALVE
	EXIST. TREE

EP	EDGE OF PAVEMENT
FF	FINISHED FLOOR
FG	FINISHED GROUND
FL	FLOW LINE
FS	FINISHED SURFACE
GB	GRADE BREAK
HP	HIGH POINT
INV	INVERT ELEVATION
PAD	PAD ELEVATION
RET.	RETAINING WALL
TC	TOP OF CURB
TG	TOP OF GRATE

CONSTRUCTION NOTE:

1. PROPOSED AC PAVEMENT
2. PROPOSED 6" CURB AND GUTTER
3. PROPOSED DRIVEWAY APPROACH
4. PROPOSED CONC. PAVEMENT
5. PROPOSED CONC. RIBBON GUTTER
6. PROPOSED 36"X36" CATCH BASIN WITH TRAFFIC RATED STEEL GRATE
7. PROPOSED 18" RCP
8. PROPOSED 1" SERVICE METER
9. PROPOSED SEPTIC TANK
10. PROPOSED LEACH FIELD
11. TRASH ENCLOSURE
12. PROPOSED RETAINING WALL

EARTHWORK VOLUMES:

TOTAL CUT = 4970 CY
TOTAL FILL = 4485 CY

** SEE EARTHWORK EXHIBIT FOR INFORMATION ON CUT-FILL BY LOCATION MAP.*

NORTH

0 15' 30' 60'

SCALE: 1"=30'

SHEET 1 OF 2

REGISTERED PROFESSIONAL ENGINEER JOANNE C. SINGER C 26900 03/31/2025 CIVIL STATE OF CALIFORNIA

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Joanne C. Singer RCE 26900
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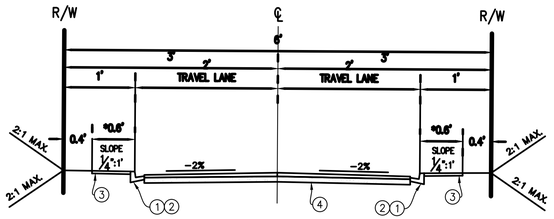
PRELIMINARY GRADING PLAN

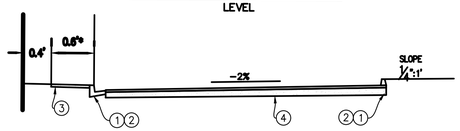
SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67



TYPICAL SECTION

LEVEL



TYPICAL SECTION

TILT

NOTES:

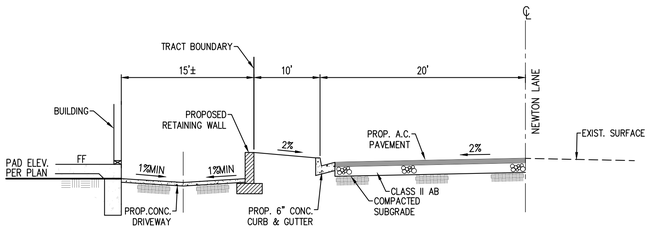
1. CURB AND GUTTER STD. DWG. NO. 200
2. A.C. DIKE PER STD DWG. 202 **
3. SIDEWALK PER STD. DWG. NO. 220
4. PAVEMENT SECTION PER STD. DWG. NO. 240

*SIDEWALK REQUIREMENT PER DEVELOPMENT CODE

**LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

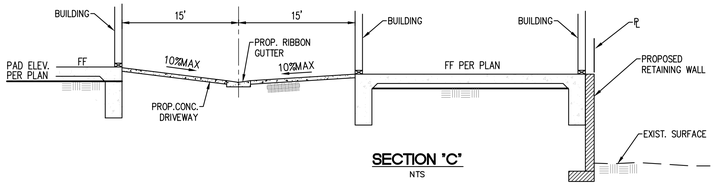
LOCAL STREET SECTION SUN MESA-NEWTON LN

NOT TO SCALE



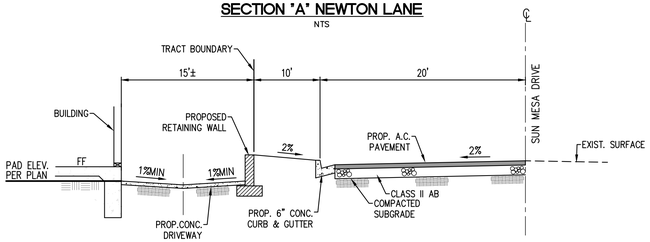
SECTION "A" NEWTON LANE

NTS



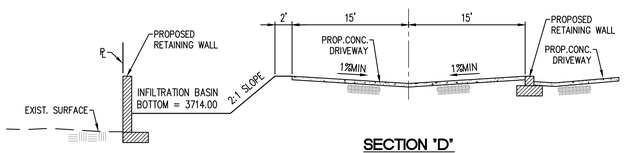
SECTION "C"

NTS



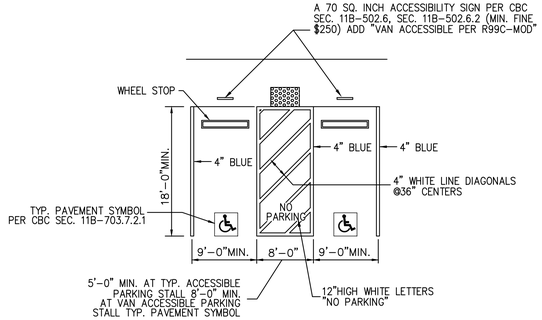
SECTION "B" SUN MESA DRIVE

NTS



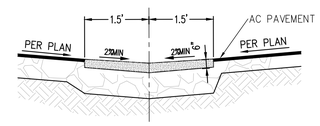
SECTION "D"

NTS



ACCESSIBLE PARKING DETAIL

NOT TO SCALE



RIBBON GUTTER DETAIL

N.T.S.

REGISTERED PROFESSIONAL ENGINEER
JOANNE C. SINGER
C 26900
03/31/2025
CIVIL
STATE OF CALIFORNIA

SHEET 2 OF 2

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Joanne C. Singer RCE 26900
760-625-7426

DRP Enterprises

PRELIMINARY GRADING PLAN

SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67

LEGAL DESCRIPTION:

TR 8749, MB 120/50-64 SEC. 13, T1N, R5E., S.B.B.&M.
APN: 0597-111-67

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THE SOUTHWEST 1/4 OF SECTION 13 PER TRACT 8749, MB 120/50-64 SAID BEARING BEING N00°00'08"E

BENCHMARK :

USGS BM 705 24
ELEVATION = 3718.55 FEET, NAVD 88

OWNER/DEVELOPER

ROB BILLINGS
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760-686-4171
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TOPOGRAPHY:

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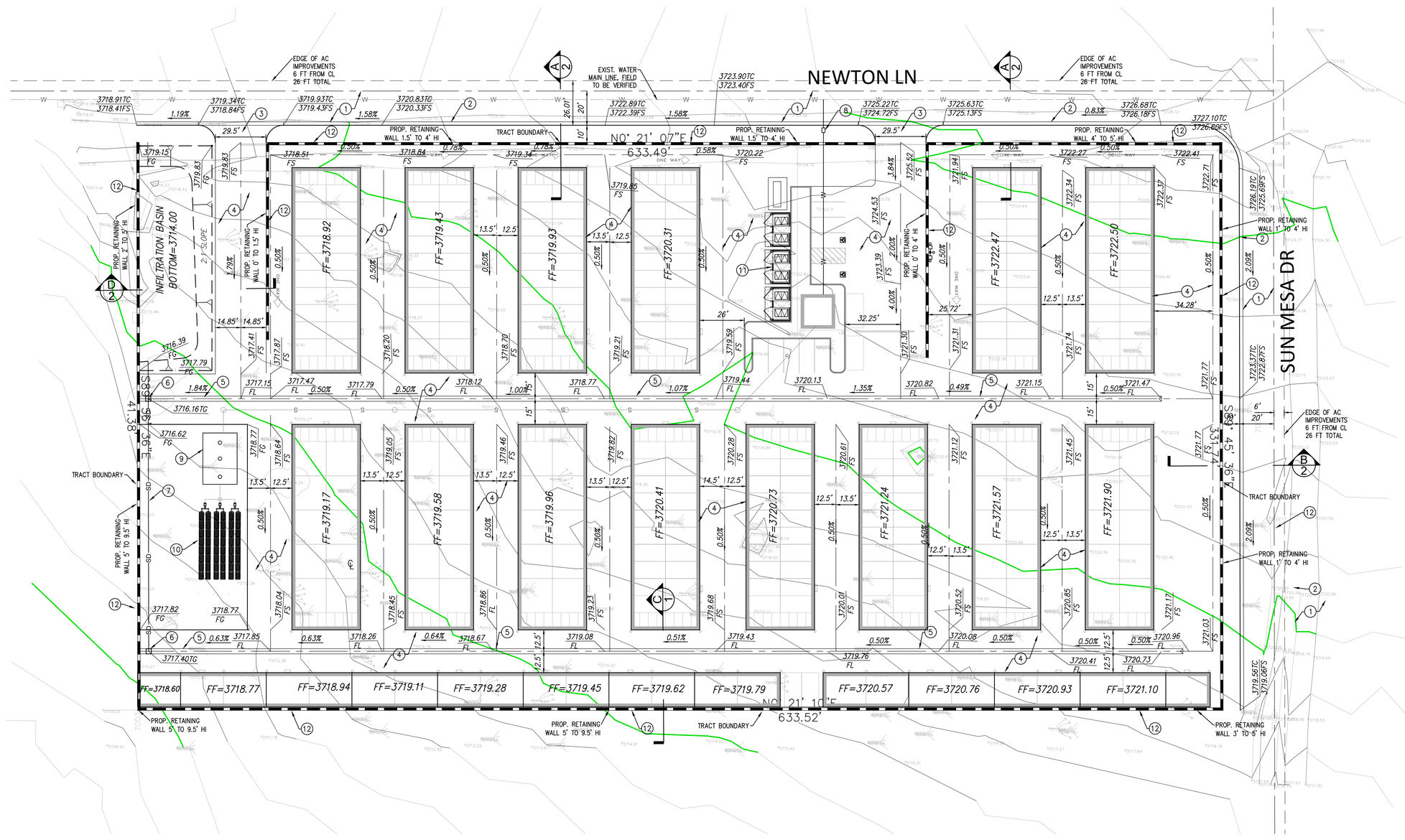
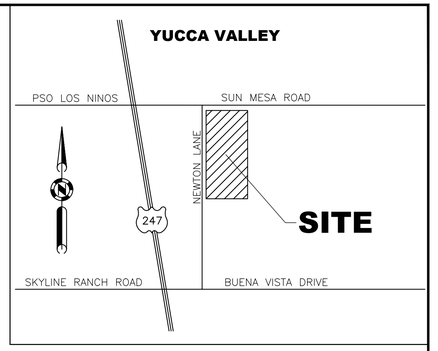
(760) 288-2232
SURVEY@LSAPCONSULTANTS.COM
DATE OF SURVEY JAN 2022





VICINITY MAP

NTS

LEGEND:

	CENTERLINE	EP	EDGE OF PAVEMENT
	PROPERTY LINE	FF	FINISHED FLOOR
W	WATER LINE	FG	FINISHED GROUND
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	EXIST. POWER POLE		
	EXIST. SEWER MANHOLE		
WM	EXIST. WATER METER		
	EXIST. WATER VALVE		
	EXIST. TREE		

CONSTRUCTION NOTE:

1. PROPOSED AC PAVEMENT
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TOTAL FILL - 4485 CY

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0 15' 30' 60'

SCALE: 1"=30'

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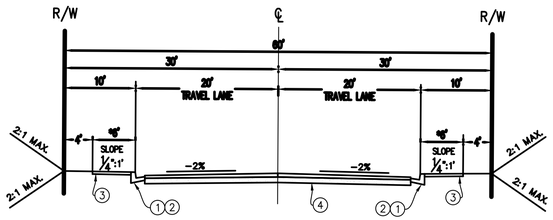
3-18-2026

PRELIMINARY GRADING PLAN

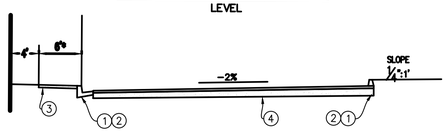
SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67



TYPICAL SECTION

LEVEL



TYPICAL SECTION

TILT

NOTES:

1. CURB AND GUTTER STD. DWG. NO. 200
2. A.C. DIKE PER STD DWG. 202 **
3. SIDEWALK PER STD. DWG. NO. 220
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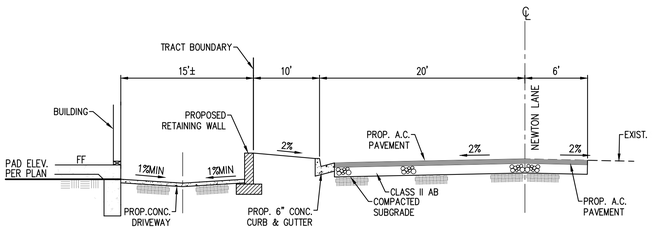
**LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

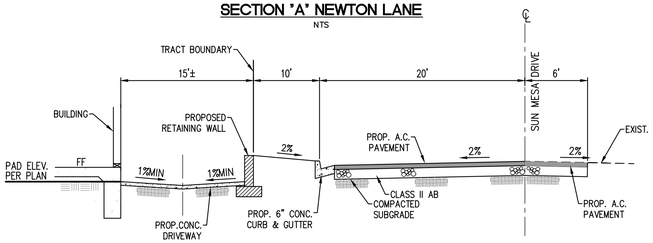
LOCAL STREET SECTION SUN MESA-NEWTON LN

NOT TO SCALE



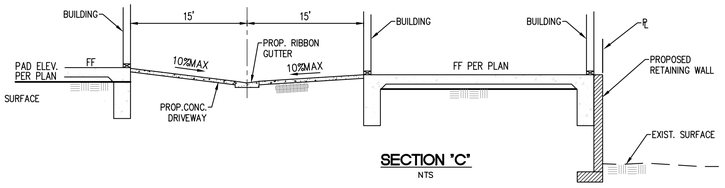
SECTION "A" NEWTON LANE

NTS



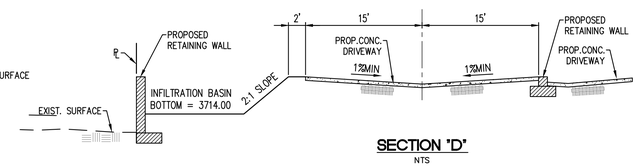
SECTION "B" SUN MESA DRIVE

NTS



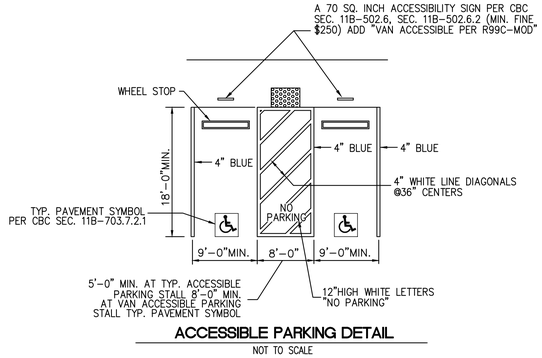
SECTION "C"

NTS



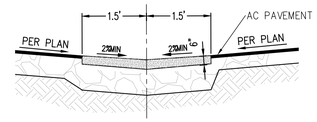
SECTION "D"

NTS



ACCESSIBLE PARKING DETAIL

NOT TO SCALE



RIBBON GUTTER DETAIL

N.T.S.

SHEET 2 OF 2

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Joanne C. Singer RCE 26900
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SUN MESA SELF-STORAGE FACILITY
(APN 0597-111-67-0000)

INITIAL STUDY AND MITIGATED NEGATIVE DECLARATION (IS/MND)

CEQA Analysis Prepared for:

Jared Jerome, Associate Planner

Town of Yucca Valley

Community Development Department
58928 Business Center Drive
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Telephone: 760-369-6579 X317
FAX: 760/228-0084

Prepared by:

UltraSystems Environmental Inc.
16431 Scientific Way
Irvine, CA 92618-4355
Telephone: 949-788-4900
FAX: 949/788-4901

December 2025

Project No. 7335

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PROJECT INFORMATION SHEET

1. Project Title	Sun Mesa Self-Storage Facility
2. CEQA Lead Agency	**Town of Yucca Valley** Community Development Department 58928 Business Center Drive Yucca Valley, CA 92284 Jared Jerome, Associate Planner (760) 369-6579 x317 jjerome@yucca-valley.org
3. Project Applicant	Rob Billings 5024 Wallaby Street Yucca Valley, CA (760) 686-4171 billingstransfer@yahoo.com
4. Project Location	S/E Corner of Sun Mesa Drive and Newton Lane Yucca Valley, California
5. Assessor's Parcel Numbers	APN 0597-111-67
6. Project Site General Plan Designation(s)	Current: Industrial (I)
7. Project Site Zoning Designation(s)	Current: Industrial (I)
8. Surrounding Land Uses and Setting	Residential property and auto repair facility located to the south of the project site. To the west, there is a debris storage and vacant gravel lot by Newton Lane. There is undeveloped land located north and east of the project site.
9. Description of Project	The proposed project entails the construction and operation of a self-storage facility, consisting of 16 detached storage structures, totaling approximately 89,700 square feet, plus a 400 square foot manager's office. Public infrastructure improvements as part of project implementation would include paving 26 feet wide(approximately half width) along Sun Mesa Drive and Newton Lane with curb, gutter, and sidewalk, from the proposed project site south to Buena Vista Drive. Refer to **Section 3.0** of this document for additional information. The project applicant is requesting the following discretionary actions, which are discussed in detail in **Section 3.0** of this document: • Site Plan Review • Design Review

10. Selected Agencies whose Approval is Required	Town of Yucca Valley
11. Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code § 21080.3.1? If so, has consultation begun?	Letters were sent by the Town of Yucca Valley (the Lead Agency), to local Native American tribes asking if they wished to participate in AB 52 consultation concerning the proposed project in the Town of Yucca Valley. Tribes had up to 30 days in which to respond to notification of the project. For the proposed project, those tribe(s) that requested consultation were contacted by the Town per Public Resources Code § 21074. The Twenty-Nine Palms Band of Mission Indians indicated that the project is within the Tribes Traditional Use Area, but no known cultural resources are located within the project's APE and there exists the possibility of surface or buried materials on the site and asks that the specific conditions for all cultural resources on any development plans be included. The Yuhaaviatam of San Manuel Nation requested consultation and provided a series of measures that are included as Mitigation Measures in this document. The Agua Caliente Band of Cahuilla Indians indicated that the project area is not located within the boundaries of the ACBCI Reservation, but it is within the Tribe's Traditional Use Area and due to this provided Mitigation Measures for the project that are included in this document. The Morongo Band of Mission Indians indicated that the project is within the ancestral territory of the tribe and request consultation and indicated that tribal monitoring is recommended. No consultation occurred. Consultation has been concluded.
12. Other Public Agencies	Agencies that will review the proposed project include the following: • Regional Water Quality Control Board, Colorado River Basin Region • California Department of Fish and Wildlife • U.S. Environmental Protection Agency • U.S. Army Corps of Engineers • Mojave Desert Air Quality Management District

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Appendix G2 Drainage Study
Appendix H Noise and Vibration Assessment
Appendix I Trip Generation and VMT Analysis

ACRONYMS AND ABBREVIATIONS

Acronym/ Abbreviation	Term
AAQS	Ambient Air Quality Standards
ACM(S)	Asbestos-Containing Material(s)
AFY	Acre-Feet per Year
AIA	Airport Influence Area
AMI	Area Median Income
AMSL	Above Mean Sea Level
APN	Assessor's Parcel Number
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
BAU	Business As Usual
BIOS	Biogeographic Information and Observation System
BWh	Dry-Hot Desert
BWhh	Dry-Very Hot Desert
CAAQS	California Ambient Air Quality Standards
CAO(S)	Cleanup And Abatement Order(s)
CASGEM	California Statewide Groundwater Elevation Monitoring
CCAA	California Clean Air Act
CDFW	California Department Of Fish and Wildlife
CDO(S)	Cease And Desist Order(s)
CFGC	California Fish and Game Code
CFS	Cubic Feet per Second
CMP	Corrugated Metal Pipe
CMPHS	CMP Highway System
CMVGWB	Copper Mountain Valley groundwater basin
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CO	Carbon Monoxide
CWA	Clean Water Act
DAMP	Drainage Area Management Plan
DCP	Dust Control Plan
DOSH	California Division of Safety And Health
DU/AC	Dwellling Units Per Acre
EMS	Emergency Medical Services
EO	Executive Order
ESA	Endangered Species Act
ESRL	Earth System Research Laboratory
EV	Electric Vehicle
EVCS	Electric Vehicle Charging Station
FAR	Floor Area Ratio
FCAA	Federal Clean Air Act
FEMA	Federal Emergency Management Agency
GIS	Geographic Information System
GPCD	Gallons Per Capita per Day

Acronym/ Abbreviation	Term
GPD	Gallons Per Day
HABS	Historic American Building Survey
HCP	Habitat Conservation Plan
HDWD	Hi-Desert Water District
HU	Hydrologic Unit
HVAC	Heating, Ventiliation and Air Conditioning
ISA	International Society of Arboriculture
ITE	Institute Of Transportation Engineers
L_{90}	Noise level that exceeded 90% of the time
LBP	Lead-Based Paint
L_{eq}	Equivalent Noise Level
LID	Low Impact Development
L_{max}	Root Mean Square Maximum Noise Level
LST(s)	Localized Significance Thresholds
LUST	Leaking Underground Storage Tank
MBTA	Migratory Bird Treaty Act
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MGD	Million Gallons per Day
MPAH	Master Plan of Arterial Highways
MS4	Municiple Separate Storm Sewer Permit
MT	Metric Tons
NAAQS	National Ambient Air Quality Standards
NAAQS	National Ambient Air Quality Standards
National Core	National Community Renaissance
NCCP	Natural Communities Conservation Plan
NO	Nitric Oxide
NO_2	Nitrogen Dioxide
No_x	Nitrogen Oxides
NPDES	National Pollutant Discharge Elimination System
O_3	Ozone
Pb	Lead
PCB	Polychlorinated Biphenyl
PM	Particulate Matter
PM_{10}	Respirable Particulate Matter
$PM_{2.5}$	Fine Particulate Matter
PPM	Parts Per Million
RCRA	Resource Conservation and Recovery Act
RHNA	Regional Housing Needs Allocation
ROG	Reactive Organic Gases
SCAB	South Coast Air Basin
SCE	Southern California Edison Company
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
SoCal Gas	Southern California Gas Company

Acronym/ Abbreviation	Term
SRA(s)	Source Receptor Area(s)
SRRE	Source Reduction and Recycling Element
STIP	Statewide Transportation Improvement Program
SUSMP	Standard Urban Stormwater Mitigation Plan
SWRCB	State Water Resources Control Board
Taps	Transportation Assembly Points
TMP	Traffic Management Plan
UFPO	Urban Forest Protection Ordinance
USDA	United States Department Of Agriculture
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	U.S. Geological Survey
VCP	Vitrified Clay Pipe
VOC	Volatile Organic Compound
WEG	Wind Erodibility Group
Ybp	Years Before Present

Executive Summary

ES.1 Introduction

This Initial Study (IS) is intended to analyze potential impacts posed by the proposed project. The Town of Yucca Valley (Town) is the Lead Agency under the California Environmental Quality Act (CEQA) and is responsible for preparing the Initial Study for the Sun Mesa Self-Storage Facility (hereby referred to as the "proposed project" or the "project").

ES.2 Overview of the Proposed Project

The Town of Yucca Valley (Town) is processing a request to implement discretionary actions that would ultimately allow for the development of a self-storage facility, consisting of 16 detached storage structures totaling approximately 89,700 square feet plus a 400 square foot manager's office. Public infrastructure improvements would include requiring paving twenty-six (26') half width of a sixty-foot (60') wide local road along Newton Lane with curb, gutter, and sidewalk, from the proposed project site south to Buena Vista Drive (APN 0597-111-67).

ES.3 CEQA Purpose and Need

The purpose of this IS is to evaluate the potential impacts resulting from the implementation of the proposed project, including the construction and operation of the proposed self-storge facility. All "projects" within the State of California are required to undergo an environmental review to determine the environmental impacts associated with implementation of the project in accordance with the requirements of the *California Environmental Quality Act of 1970 (CEQA).* Some projects are determined to be statutorily and categorically exempt from CEQA and no further environmental documentation is needed to be prepared for them. However, if the proposed project may create significant impacts on the environment an environmental analysis (IS/MND or EIR) must be prepared for the project.

ES.4 Project Synopsis

Location

The project site is located southeast of the intersection of Newton Lane and Sun Mesa Drive in the Town of Yucca Valley in San Bernardino County (APN: 0597-111-67).

Project Characteristics

The proposed self-storage facility is located on a parcel designated Industrial (I) in the Town of Yucca Valley General Plan and is zoned Industrial. The project does not require a General Plan Amendment or Zone Change and is subject to approval of a Site Plan Review (SPR).

ES.5 Summary of Significant Effects

As detailed in this document, after the implementation of mitigation, the project would result in less than significant environmental impacts.

ES.6 Project Objectives

Below is a list of objectives for the proposed project:

To provide construction of self-storage units and a manager's office, parking, landscaping, utility improvements, and improvement of half of Newton Lane along the project's west boundary.

ES.7 Areas of Controversy Known to the Lead Agency

The proposed project includes the removal of multiple western Joshua trees, which are currently under consideration by the California Fish & Game Commission as a candidate species under the California Endangered Species Act (CESA). The biological assessment prepared for the proposed project identifies the site as marginally suitable for desert tortoise; however, no desert tortoises were observed. The biological assessment identifies the site as habitat suitable for nesting birds. There are numerous Western Joshua Trees located on the project site and along Lomita Lane.

ES.10 Summary of Environmental Impacts and Mitigation Measures

Refer to **Section 7.0**, Mitigation Monitoring and Reporting Program (MMRP), for a MMRP table that lists impacts, mitigation measures adopted by the Town of Yucca Valley in connection with approval of the proposed project, level of significance after mitigation, responsible and monitoring parties, and the project phase in which the measures are to be implemented.

1.0 INTRODUCTION

1.1 Proposed Project

The Town of Yucca Valley (Town) is processing an application for discretionary actions that would ultimately allow for the approval and development of a proposed self-storage facility southeast of the intersection of Newton Lane and Sun Mesa Drive in the Town of Yucca Valley in San Bernardino County. Project implementation includes public infrastructure improvements from the proposed self-storage site to Buena Vista Drive, south of the project site.

1.1.1 Project Components

The proposed project would consist of:

Proposed Buildings

- Construction of 16 multi-unit metal storage structures, totaling approximately 89,700 square feet including a 400 square foot manager's office

1.1.2 Pavement of half width (26 feet) of local roads along Newton Lane and Sun Mesa Drive with curb, gutter, and sidewalk as delineated in Figure 3.2-1. Estimated Construction Schedule

Project construction would be in two phases and is estimated to start in First Quarter 2026. Phase 1, which includes half the units as well as the manager's office, would take approximately 3 to 4 months. Phase 2, which also includes offsite improvements, would take 3 to 4 months - but timing of construction start would be dependent on sales in Phase 1.

Refer to **Section 3.0 Project Description** for details.

1.2 Lead Agencies – Environmental Review Implementation

The Town of Yucca Valley is the Lead Agency for the proposed project. Pursuant to the California Environmental Quality Act (CEQA) and its implementing regulations,[1] the Lead Agency has the principal responsibility for implementing and approving a project that may have a significant effect on the environment.

1.3 CEQA Overview

1.3.1 Purpose of CEQA

All discretionary projects within California are required to undergo environmental review under CEQA. A Project is defined in CEQA Guidelines § 15378 as the whole of the action having the potential to result in a direct physical change or a reasonably foreseeable indirect change to the environment and is any of the following:

- An activity directly undertaken by any public agency including but not limited to public works construction and related activities, clearing or grading of land, improvements to existing

1 Public Resources Code §§ 21000 - 21177 and California Code of Regulations Title 14, Division 6, Chapter 3.

public structures, enactment and amendment of zoning ordinances, and the adoption and amendment of local General Plans or elements.

- An activity undertaken by a person which is supported in whole or in part through public agency contracts, grants, subsidies, loans, or other forms of assistance from one or more public agencies.

- An activity involving the issuance to a person of a lease, permit, license, certificate, or other entitlement for use by one or more public agencies.

CEQA Guidelines § 15002 lists the basic purposes of CEQA as follows:

- Inform governmental decision makers and the public about the potential significant environmental effects of proposed activities.

- Identify the ways that environmental damage can be avoided or significantly reduced.

- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures (MMs) when the governmental agency finds the changes to be feasible.

- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

1.3.2 Authority to Mitigate under CEQA

CEQA establishes a duty for public agencies to avoid or minimize environmental damage where feasible. Under CEQA Guidelines § 15041 a Lead Agency for a project has authority to require feasible changes in any or all activities involved in the project in order to substantially lessen or avoid significant effects on the environment, consistent with applicable constitutional requirements such as the "nexus"[2] and "rough proportionality"[3] standards.

CEQA allows a Lead Agency to approve a project even though the project would cause a significant effect on the environment if the agency makes a fully informed and publicly disclosed decision that there is no feasible way to lessen or avoid the significant effect. In such cases, the Lead Agency must specifically identify expected benefits and other overriding considerations from the project that outweigh the policy of reducing or avoiding significant environmental impacts of the project.

1.4 Purpose of Initial Study

The CEQA process begins with a public agency making a determination as to whether the project is subject to CEQA at all. If the project is exempt, the process does not need to proceed any farther. If the project is not exempt, the Lead Agency takes the second step and conducts an Initial Study to determine whether the project may have a significant effect on the environment.

2 A nexus (i.e., connection) must be established between the mitigation measure and a legitimate governmental interest.

3 The mitigation measure must be "roughly proportional" to the impacts of the Project.

The purposes of an Initial Study as listed in § 15063(c) of the CEQA Guidelines are to:

- Provide the Lead Agency with information necessary to decide if an Environmental Impact Report (EIR), Negative Declaration (ND), or Mitigated Negative Declaration (MND) should be prepared.
- Enable a Lead Agency to modify a project to mitigate adverse impacts before an EIR is prepared, thereby enabling the project to qualify for a ND or MND.
- Assist in the preparation of an EIR, if required, by focusing the EIR on adverse effects determined to be significant, identifying the adverse effects determined not to be significant, explaining the reasons for determining that potentially significant adverse effects would not be significant, and identifying whether a program EIR, or other process, can be used to analyze adverse environmental effects of the project.
- Facilitate an environmental assessment early during project design.
- Provide documentation in the ND or MND that a project would not have a significant effect on the environment.
- Eliminate unnecessary EIRs.
- Determine if a previously prepared EIR could be used for the Project.

In cases where no potentially significant impacts are identified, the Lead Agency may issue a ND, and no MMs would be needed. Where potentially significant impacts are identified, the Lead Agency may determine that MMs would adequately reduce these impacts to less than significant levels. The Lead Agency would then prepare an MND for the proposed project. If the Lead Agency determines that individual or cumulative effects of the proposed project would cause a significant adverse environmental effect that cannot be mitigated to less than significant levels, then the Lead Agency would require an EIR to further analyze these impacts.

1.5 Review and Comment by Other Agencies

Other public agencies are provided the opportunity to review and comment on the IS/MND. Each of these agencies is described briefly below.

- A Responsible Agency (14 CCR § 15381) is a public agency, other than the Lead Agency, that has discretionary approval power over the Project, such as permit issuance or plan approval authority.
- A Trustee Agency[4] (14 CCR § 15386) is a state agency having jurisdiction by law over natural resources affected by a project that are held in trust for the people of the State of California.
- Agencies with Jurisdiction by Law (14 CCR § 15366) are any public agencies who have authority (1) to grant a permit or other entitlement for use; (2) to provide funding for the project in question; or (3) to exercise authority over resources which may be affected by the

4 The four Trustee Agencies in California listed in CEQA Guidelines § 15386 are California Department of Fish and Wildlife, State Lands Commission, State Department of Parks and Recreation, and University of California.

project. Furthermore, a city or county will have jurisdiction by law with respect to a project when the city or county having primary jurisdiction over the area involved is: (1) the site of the project; (2) the area in which the major environmental effects will occur; and/or (3) the area in which reside those citizens most directly concerned by any such environmental effects.

1.6 Impact Terminology

The following terminology is used to describe the level of significance of potential impacts:

- A finding of ***no impact*** is appropriate if the analysis concludes that the project would not affect the particular environmental threshold in any way.

- An impact is considered ***less than significant*** if the analysis concludes that the project would cause no substantial adverse change to the environment and requires no mitigation.

- An impact is considered ***less than significant with mitigation incorporated*** if the analysis concludes that the project would cause no substantial adverse change to the environment with the inclusion of environmental commitments, or other enforceable measures, that would be adopted by the lead agency.

- An impact is considered ***significant and unavoidable*** if the analysis concludes that the project could have a substantial adverse effect on the environment and cannot be mitigated to a less than significant level..

1.7 Organization of Initial Study

This document is organized to be consistent with the requirements under CEQA Guidelines § 15063(d), and includes the following sections:

- **Section 1.0 - Introduction**, which identifies the purpose and scope of the IS/MND.

- **Section 2.0 - Environmental Setting**, which describes location, existing site conditions, land uses, zoning designations, topography, and vegetation associated with the project site and surroundings.

- **Section 3.0 - Project Description**, which provides an overview of the project, a description of the proposed development, project phasing during construction, and discretionary actions for project approval.

- **Section 4.0 - Environmental Checklist**, which presents checklist responses for each resource topic to identify and assess impacts associated with the proposed project, and proposes MMs, as needed, to reduce potential environmental impacts to less than significant.

- **Section 5.0 - References**, which includes a list of documents cited in the IS/MND.

- **Section 6.0 - List of Preparers**, which identifies the primary authors and technical experts that prepared the IS/MND.

Technical studies and other documents, which include supporting information or analyses used to prepare the IS/MND, are included in the following appendices:

Appendix A	Project Plans and Drawings
Appendix B	Air Quality, Energy, and Greenhouse Gas Emissions Assessment
Appendix C1	Biological Resources Assessment
Appendix C2	Western Joshuia Tree Census
Appendix C3	Rare Plant Survey Report
Appendix D	Cultural Resources Report
Appendix E	Geotechnical Report
Appendix F	Phase I ESA
Appendix G1	Percolation Testing Report
Appendix G2	Drainage Study
Appendix H	Noise and Vibration Assessment

1.8 Findings from the Initial Study

1.8.1 No Impact or Impacts Considered Less than Significant

Based on IS findings, the project would have no impact or a less than significant impact on the following environmental categories listed from Appendix G of the CEQA Guidelines.

- Aesthetics
- Agriculture and Forestry Resources
- Air Quality
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Mineral Resources
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation and Traffic
- Utilities and Service Systems
- Wildfire

1.8.2 Impacts Considered Less than Significant with Mitigation Measures

Based on IS findings, the project would have a less than significant impact on the following environmental categories listed in Appendix G of the CEQA Guidelines when proposed MMs are implemented.

- Biological Resources
- Cultural Resources
- Geology and Soils
- Tribal Cultural Resources
- Mandatory Findings of Significance

2.0 ENVIRONMENTAL SETTING

2.1 Project Location

The approximately 4.34-acre project site is located at the southeast corner of Sun Mesa Drive and Newton Lane within the northern portion of the Town of Yucca Valley in San Bernardino County. The site lies in a transitional area between established commercial and industrial uses along Old Woman Springs Road (SR-247), and largely undeveloped parcels to the north and east. The project's location provides convenient access to the regional roadway network, including SR-247 approximately 0.15 mile to the west and State Route 62 (SR-62) located approximately 3.11 miles south, both of which function as primary regional corridors through the Morongo Basin.

Refer to **Figure 2.1-1**, which illustrates the project's position within the broader regional context, including nearby transportation routes, community boundaries, and major natural features such as the San Bernardino Mountains to the southwest and the Mojave Desert to the north and east. **Figure 2.1-2** provides an aerial view of the project site and surrounding lands. As shown, the site is vacant with sparse desert vegetation and is bordered by existing commercial development to the south and west, with undeveloped residential -zoned parcels immediately north and east. The aerial photo also highlights the site's rectangular configuration, its frontage along Newton Lane and Sun Mesa Drive, and the absence of existing structures or utilities on the property.

2.2 Project Setting

The project site consists of one legal parcel, identified as Assessor's Parcel Number (APN) 0597-111-67. The entire 4.34-acre property is currently undeveloped and contains no existing structures, utilities, or previous site improvements. Vegetation includes 98 western Joshua trees – both living and dead – (LSA, 2023) and sparse desert scrub typical of the High Desert region. There is evidence of prior disturbance that appears to be limited to fault trenching that may have been conducted in January 2006, for which results were not recorded with the County (Google Earth Pro, 2025).

Figure 2.2-1 illustrates the topography of the project site and the surrounding area. As shown, site elevations vary only slightly, and the property is generally characterized by a flat to gently sloping surface that drains toward the southwest. According to 2025 Google Earth elevation data, the terrain exhibits minimal relief, reflecting the broader geomorphology of the Morongo Basin, where broad alluvial plains transition into upland desert foothills.

Site photographs included in **Figure 2.2-2** provide visual confirmation of existing onsite conditions, including the undeveloped character of the parcel, the absence of structural development, the surrounding roadway network, and the adjacent vacant land and commercial uses. These photographs also illustrate the site's desert setting, surface soils, and existing access from Newton Lane and Sun Mesa Drive, which define the northern and western boundaries of the parcel.

2.2.1 Land Use and Zoning

The land use pattern surrounding the project site consists of a mix of vacant parcels, low-intensity commercial uses, and industrial operations that reflect the transitional character of this portion of the Town of Yucca Valley. The project site itself is designated Industrial (I) under both the Town of Yucca Valley General Plan and Zoning Map (Town of Yucca Valley, 2014). This designation is intended to accommodate a broad range of light industrial, storage, and service-oriented uses that require larger parcels and separation from residential neighborhoods.

Figure 2.2-1
REGIONAL LOCATION

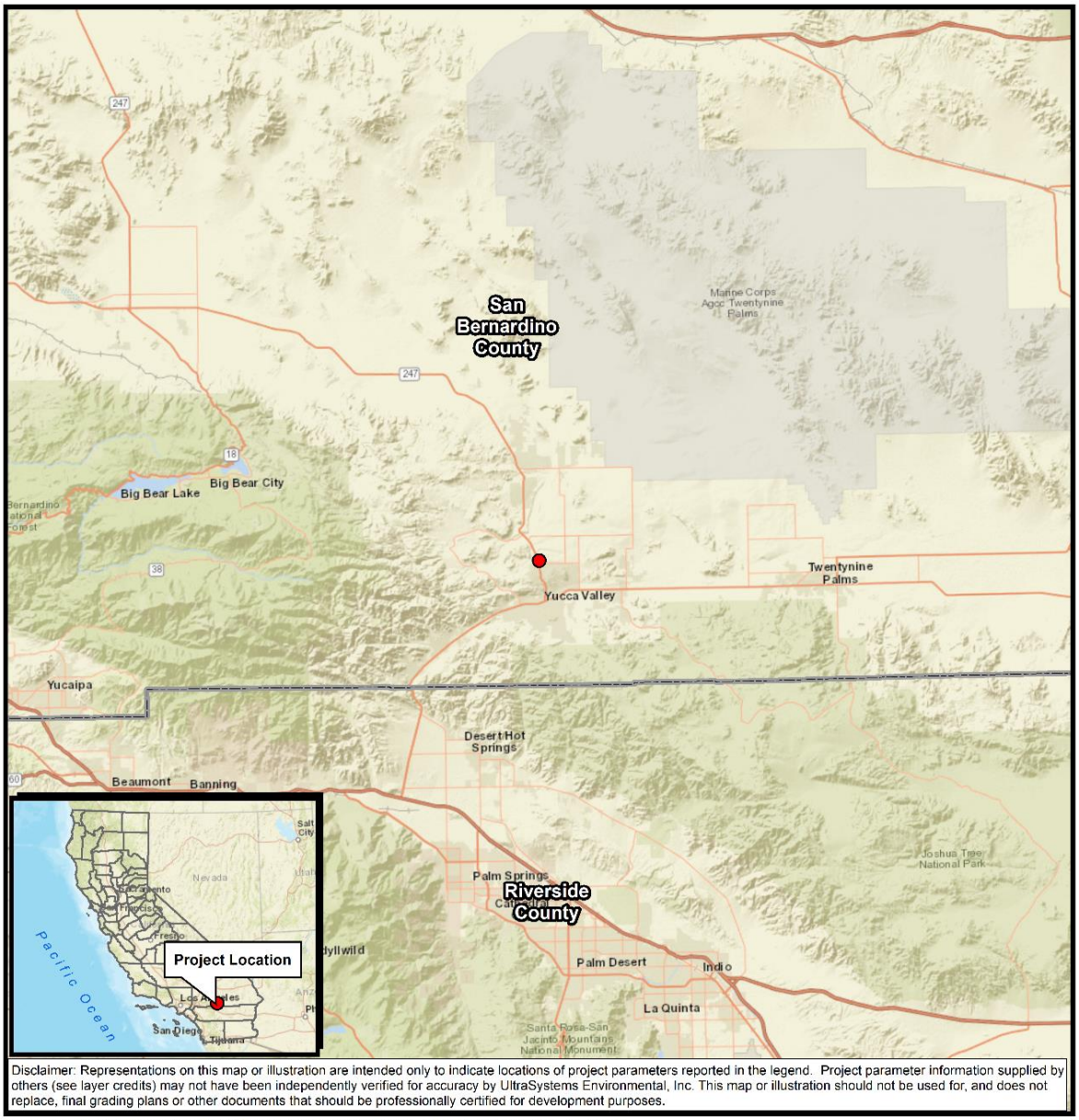


Figure 2.2-2
PROJECT LOCATION

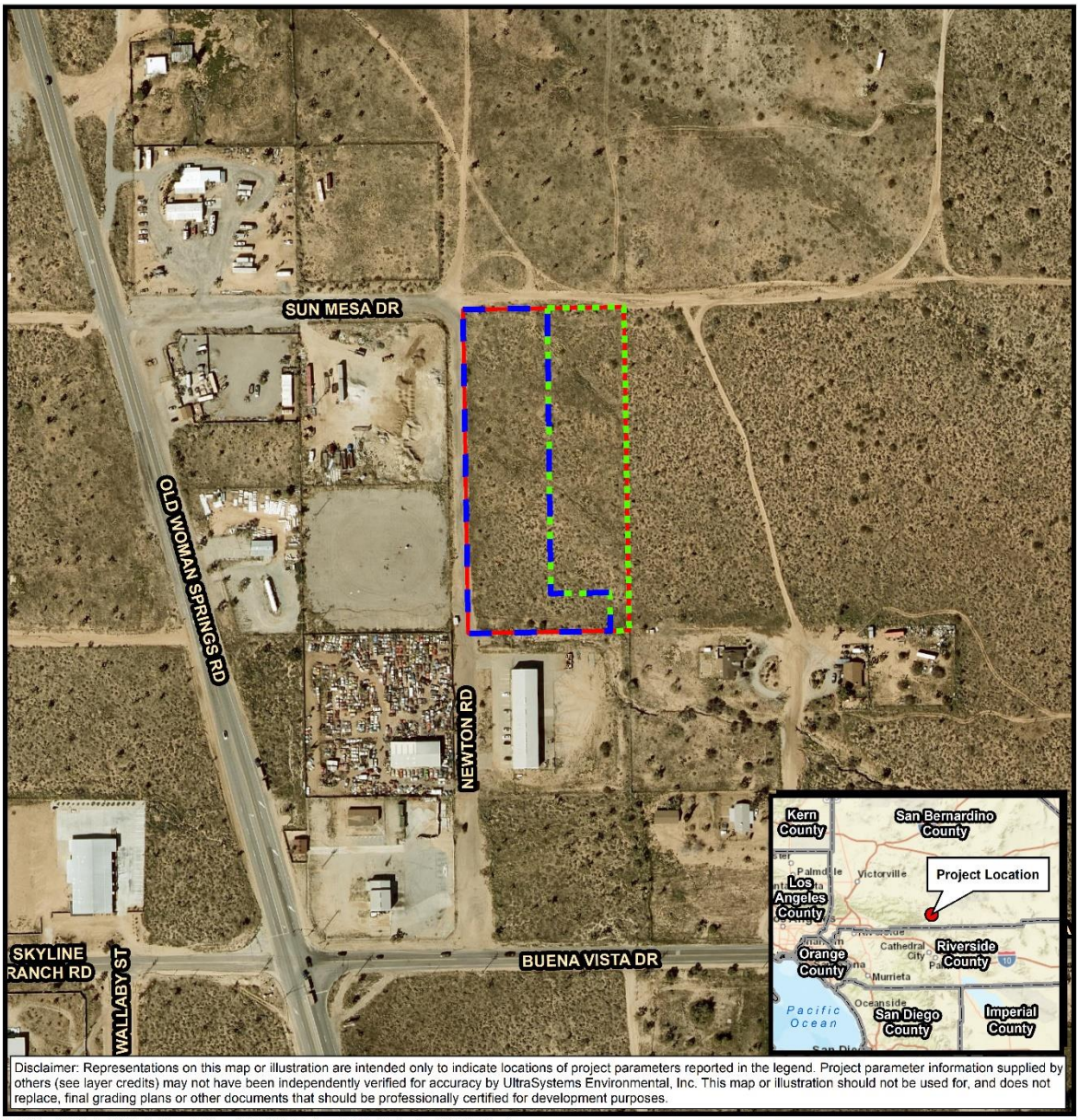
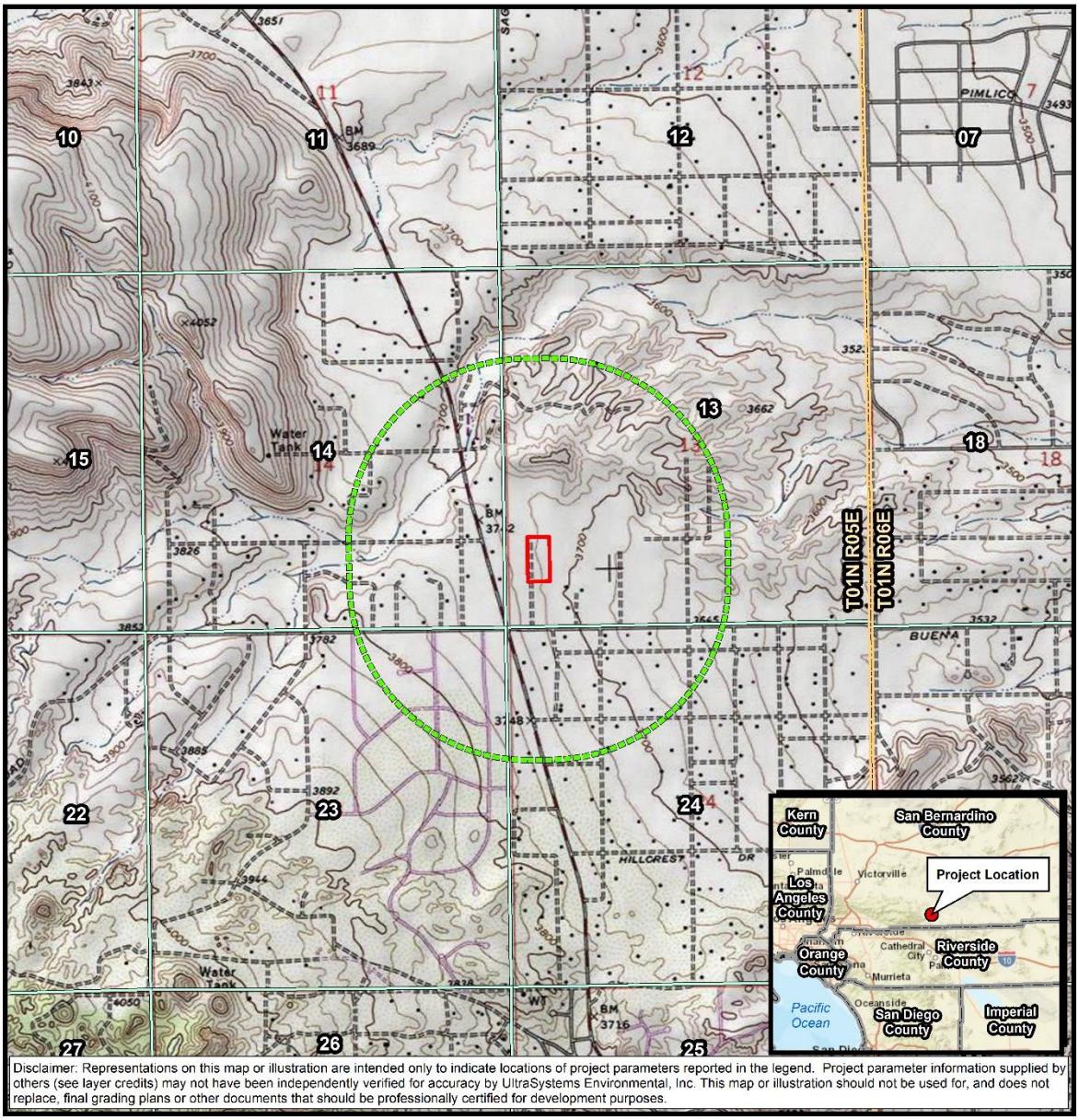


Figure 2.2-3
TOPOGRAPHIC MAP



Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others (see layer credits) may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

Path: \\Gissvr\GIS\Projects\7335_SunMesa_SelfStorage\MXDs\7335_SunMesa_4_5_Topo_2025_07_28.mxd
July 28, 2025
Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, Copyright:© 2013 National Geographic Society, i-cubed California Department of Conservation, 2019; CALAtlas, 2022; UltraSystems Environmental, Inc., 2025.

Scale: 1:24,000

N

0 625 1,250 Feet

0 250 500 Meters

Legend

- Project Boundary
- Half-Mile Radius
- Quadrangle Boundary
- Township Boundary
- Section Boundary

Sun Mesa Self-Storage Facility
Topographic Map
Quadrangle: Yucca Valley North
Township: 1N Range: 5E
Section:13

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Figure 2.2-4
PROJECT SITE PHOTOGRAPHS

Photo 1: View looking south at Joshua tree woodland from the northwest corner of the project site.

Photo 2: View looking south at Joshua tree woodland from the northeast corner of the project site.

Photo 3: View looking west at Joshua tree woodland from the southeast corner of the project site.

Photo 4: View looking north at Joshua tree woodland from the southwest corner of the project site.

Existing land uses immediately surrounding the project site are summarized in **Table 2.2-1**. As shown, the northern and eastern areas consist primarily of vacant land with Rural Living (RL) designations, allowing for large-lot rural residential development consistent with the area's low-density pattern. The parcel to the west is zoned Industrial (I) and is developed with natural gas truck storage, a use compatible with the proposed project. South of the project site lies a Neighborhood Commercial (C-N) zone that supports small-scale commercial services, developed with an existing manufacturing company (Full Circle) adjacent to the project site.

This land use context reflects a logical transition from more intensive commercial and industrial activities along Old Woman Springs Road (SR-247) to lower-density rural residential lands to the north and east. The proposed self-storage facility is consistent with the industrial character along Newton Lane and would not introduce land use conflicts with surrounding zoning districts.

Table 2.2-1
SUMMARY OF EXISTING LAND USE, ZONING AND EXISTING DEVELOPMENT

Location	General Plan Designation	Zoning Designation	Existing Development
Project Site	Industrial (I)	Industrial (I)	Vacant land
North	Rural Living (RL-5)	Rural Living (R-L-5)	Vacant land
South	Commercial (C)	Neighborhood Commercial (C-N)	Manufacturing
East	Rural Living (RL)	Homestead Valley/Rural Living (HV/RL)	Vacant land
West	Industrial (I)	Industrial (I)	Natural gas truck storage

Source: Town of Yucca Valley, 2025c; County of San Bernardino, 2025b

2.3 Existing Characteristics of the Site

The project site consists of an approximately 4.34-acre undeveloped parcel located at the southeast corner of Sun Mesa Drive and Newton Lane in the Town of Yucca Valley. The site contains no existing structures, paved surfaces, utilities, or signs of prior development. Surface conditions are typical of the high desert environment, with exposed sandy soils, limited vegetation, and evidence of informal vehicle access. Surrounding land uses include commercial and industrial development to the south and west, and vacant rural residential land to the north and east. Existing access is provided by the unimproved roadway edges along Sun Mesa Drive and Newton Lane, with stormwater draining naturally across the parcel in a southwest direction.

2.3.1 Climate and Air Quality

The project site is located within the Mojave Desert Air Basin (MDAB), which is characterized by an arid desert climate with hot, dry summers, cool winters, and low annual precipitation. Average summer temperatures frequently exceed 100 degrees Fahrenheit, while winter temperatures commonly range from the mid 30s to mid 60s. Annual precipitation averages approximately four to six inches, most of which occurs during winter frontal storms and occasional late summer monsoonal events (WRCC, 2025).

The region experiences persistent high-pressure systems that limit cloud cover and promote high solar radiation levels. Winds are typically moderate but can become strong during seasonal Santa Ana wind events or monsoonal thunderstorms. These wind patterns influence the dispersion of air pollutants and contribute to the potential for elevated particulate matter levels due to windblown dust.

Air quality in the Yucca Valley area is regulated by the Mojave Desert Air Quality Management District (MDAQMD), which is responsible for setting and enforcing air quality rules, reviewing project emissions, and maintaining attainment planning documents. The MDAB is currently designated nonattainment for ozone (O_3) and particulate matter (PM10) under state and federal standards, and attainment for most other criteria of pollutants (ARB, 2025). Local air quality conditions are influenced by both regional transport from the South Coast Air Basin and locally generated emissions from vehicle travel, commercial activities, and fugitive dust from disturbed soils.

Because the project site is undeveloped, existing onsite emissions are limited to naturally occurring fugitive dust, sparse biological activity, and intermittent vehicle trips associated with surrounding uses. No stationary sources of emissions exist on the property.

2.3.2 Geology and Soils

The project site is located within the Morongo Basin, an area underlain primarily by Quaternary age alluvial deposits consisting of unconsolidated sands, silts, gravels, and cobbles derived from adjacent upland drainages. These valley floor deposits exhibit loose to moderately compacted soil conditions typical of young alluvial fan environments found throughout the high desert region. No bedrock is exposed at the surface, and consolidated formations are expected only at depth beneath the alluvium. The site's topography is relatively flat, with surface elevations between approximately 3,280 and 3,290 feet above mean sea level, gently sloping from northeast to southwest consistent with natural sheet flow drainage patterns. The surrounding landscape exhibits minimal relief, and no steep slopes, landslide hazards, or erosional scarps occur within or adjacent to the property (Sladden, 2025a).

The project site is located within an Alquist-Priolo Earthquake Fault Zone and in a mapped trace of the Johnson Valley Fault Zone traverses the project site as further analyzed in **Section 4.7**. The project geotechnical investigation recommends subsurface fault-rupture studies to evaluate active surface-rupture potential and notes that habitable structures are not permitted across active fault zones. The geotechnical report further states that, based on the proposed project description, the self-storage units and offices are not intended for human occupancy or to exceed 2,000 person hours per year. The applicant anticipates that one part-time employee would be present onsite. Self-storage customer visits would be intermittent and typically short in duration; therefore, estimating total annual customer occupancy time would be speculative. Given the limited on-site occupancy and the absence of habitable structures, the potential for exposure to surface-rupture hazards is reduced; impact significance is addressed in Section **4.7** of this Initial Study.

2.3.3 Hydrology

The project site is located within the Mojave Desert region, which is characterized by arid climatic conditions, low annual precipitation, and episodic stormwater runoff. The site drains generally from the northeast toward the southwest in shallow sheet flow, consistent with the flat alluvial topography of the area. No natural drainage, blue line streams, jurisdictional waters, or defined channels exist onsite. The site is not located within a 100 year or 500-year Federal Emergency Management Agency (FEMA) flood hazard zone and is mapped within Flood Zone X, indicating areas of minimal flood risk. Surface soils consist primarily of sandy alluvium with moderate infiltration capacity, and stormwater currently infiltrates directly into onsite soils or disperses as sheet flows across the undeveloped parcel during storm events.

Groundwater in the region typically occurs at depths greater than 200 feet below ground surface, reflecting the deep basin characteristics of the Morongo groundwater system. As a result, shallow

groundwater does not influence surface hydrologic conditions at the project site, and there is no evidence of perched water, springs, or saturated soil conditions onsite. The Hi Desert Water District manages regional groundwater resources for municipal supply, but no groundwater extraction occurs on the project parcel. The site is not located near a dam inundation zone, alluvial fan flood hazard area, or natural watercourse that would pose elevated hydrologic risk.

Stormwater conveyance in the surrounding area consists primarily of natural sheet flow supported by roadside swales and limited curb and gutter improvements along developed frontage. Because the project site is undeveloped, no existing stormwater infrastructure is present. Future project development will be required to comply with the Town of Yucca Valley Municipal Code Municipal § 9.37.060: Erosion Control, Runoff Control, and Enforcement and the San Bernardino County requirements for onsite stormwater management, including implementation of best management practices to ensure post construction runoff volumes and water quality conditions meet local and regional standards.

2.3.4 Biology

As detailed in **Section 4.4** of this Initial Study, the project site and Biological Study Area (BSA) occur in the Mojave Basin and Range region and are characterized by generally flat topography (approximately 3,710 to 3,726 feet amsl) within a developed setting bordered by industrial, commercial, and largely vacant residential lands. Vegetation within the site is best characterized as disturbed Joshua tree woodland, with dominant species including western Joshua tree and Mojave yucca with common desert scrub and nonnative annual grasses/forbs. LSA documented western Joshua tree onsite, including a census of 98 individuals within the project site and immediate census buffer, and did not observe additional special-status plant species during focused rare plant surveys. Wildlife observed during field surveys included common desert birds and reptiles/mammals, and a special-status bird species (loggerhead shrike) was recorded. No wetlands or other jurisdictional waters were identified on the site, and no USFWS-designated critical habitat was mapped within the BSA. Regional mapping indicates the BSA does not overlap designated habitat connectivity linkages; however, surrounding open lands can provide local movement opportunities for desert wildlife. Applicable biological regulatory considerations in the area include protections for nesting birds (MBTA and California Fish and Game Code), and local/state controls on take or removal of desert native plants and Joshua trees (e.g., California Desert Native Plants Act, Western Joshua Tree Conservation Act, and the Town's native plant/tree permitting requirements).

2.3.5 Public Services

The project site is located within the Town of Yucca Valley and is served by a range of local and regional public service providers. Fire protection and emergency response services are provided by the San Bernardino County Fire Protection District, which operates several stations within the Morongo Basin. Response capabilities in the project area are supported by an established roadway network, including Old Woman Springs Road (SR 247) and State Route 62, which allow personnel and equipment to reach the site within standard response times. The project site is currently undeveloped and does not contain structures or activities that generate demand for fire suppression, emergency medical response, or hazardous materials services.

Law enforcement services are provided by the San Bernardino County Sheriff's Department through the Morongo Basin Station. The surrounding area consists of a mix of commercial, industrial, and

rural residential uses that generate relatively low levels of service demand. The undeveloped condition of the project site results in minimal existing law enforcement needs.

Parks, recreational services, and community facilities are administered by the Town of Yucca Valley Department of Community Services. Several public parks, open space areas, and recreational amenities are located throughout the community; however, no park or recreational facility occurs adjacent to or within the project site. As a vacant parcel, the site does not generate recreational demand or contribute to the use of existing parkland or community facilities.

Public education services in the region are provided by the Morongo Unified School District. Because the project site does not contain residential development, it does not contribute to school enrollment or require educational services. Similarly, library services, public health services, and other general municipal functions experience no measurable demand associated with the existing condition of the property.

The current undeveloped status of the site results in negligible or no demand for public services, and service providers in the area maintain the capacity and infrastructure needed to support existing land uses surrounding the project area.

2.3.6 Utilities

The project site is currently undeveloped and does not contain existing utility connections or built infrastructure. Water service in the area is provided by the Hi-Desert Water District, which maintains groundwater supply wells, storage facilities, and distribution lines throughout the Town of Yucca Valley. Potable water lines are present within adjacent public roadways, although no active service connections extend into the project parcel. Wastewater treatment services are not available in this portion of Yucca Valley, and properties in the vicinity rely on individual septic systems for wastewater disposal. The project site does not contain an existing septic system, leach field, sewer connection, or wastewater conveyance facilities.

Electricity is supplied by Southern California Edison through an established regional distribution network with overhead and underground service lines located in surrounding rights of way. Telecommunications services, including telephone and broadband, are available through local providers operating within the Town; however, the project site lacks direct service extensions or equipment. Solid waste collection and disposal in Yucca Valley is provided by Burrtec Waste and Recycling, and the nearest permitted disposal facility is the Landers Sanitary Landfill.

Stormwater at the site drains as natural sheet flow to the southwest, and no storm drain pipes, inlets, culverts, or engineered drainage improvements exist on the parcel. The absence of development results in minimal utility demand, and the site currently relies on natural hydrologic processes for drainage. Roadway access is limited to the adjacent unimproved edges of Sun Mesa Drive and Newton Lane, with no internal pavement, curbs, or driveways present.

The existing utility and infrastructure conditions reflect the vacant nature of the parcel and do not present constraints that would impede extension of standard municipal services in conjunction with future development consistent with Town requirements.

3.0 PROJECT DESCRIPTION

3.1 Project Background

The Town of Yucca Valley (Town) is processing a request to implement discretionary actions that would allow for the development of a self-storage facility (project) southeast of the intersection of Newton Lane and Sun Mesa Drive in the Town of Yucca Valley in San Bernardino County (APN: 0597-111-67). The proposed project includes the development of approximately 541 storage units, a manager's office, parking, internal roads, and landscaping on an approximately 4.34-acre site. In addition, offsite improvements (including partial pavement of adjacent roads) would be provided. The Town is the Lead Agency for the purposes of the CEQA.

The Town's General Plan Land Use and zoning designation for the site is Industrial. The proposed project requires a Site Plan Review.

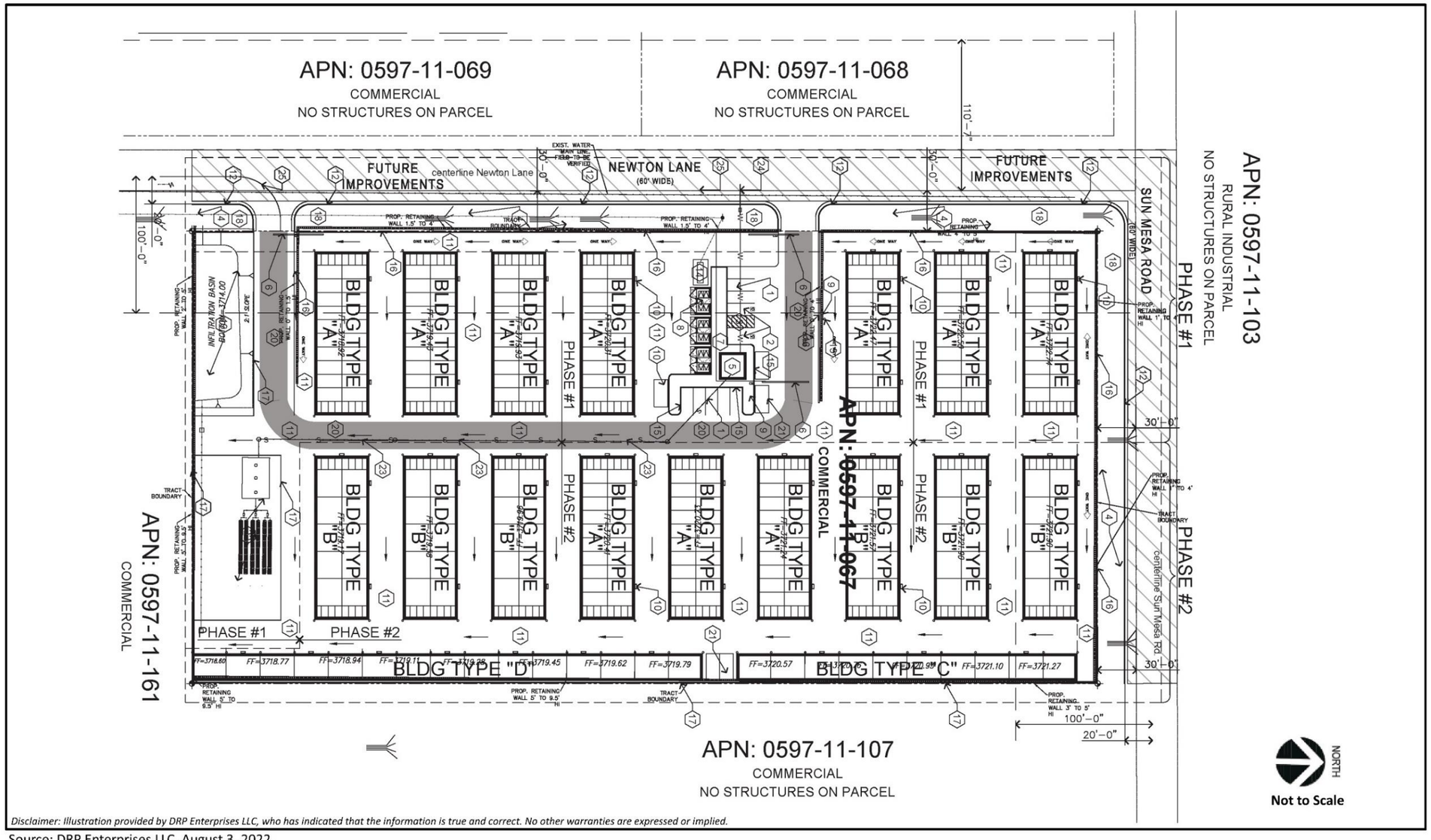
3.2 Project Overview

The project would consist of: (1) utilities improvements; (2) construction of self-storage units and a manager's office; (4) parking; (5) landscaping; and (6) improvement of half of Newton Lane along the project's west boundary and Sun Mesa Drive along the north boundary. **Figure 3.2-1** is a site plan depicting the layout of the proposed project buildings and onsite amenities. **Table 3.2-1** summarizes the proposed project features. Project site plans are included as **Appendix A**.

Table 3.2-1
PROJECT SUMMARY

New Construction	Proposed Uses/Features	Area (sf)	No. of Stories	Building Height
Self-Storage Units and Manager's Office	541 self-storage units in 16 buildings (89,300 sf), plus one manager's office (400 sf)	89,700	1	9 ft. 6 in. (storage) 12 ft. (office)
Parking Spaces	10 parking spaces and five loading zones	83,972	N/A	N/A
Landscaping	Variety of trees, shrubs/native plants, and decorative rocks	15,378	N/A	N/A
Improvements of Newton Lane and Sun Mesa Drive	20 feet width of pavement plus 6 feet of curb, gutter and sidewalk on each street (Town of Yucca Valley, 2014).	N/A	N/A	N/A

Figure 3.2-1
SITE PLAN



Disclaimer: Illustration provided by DRP Enterprises LLC, who has indicated that the information is true and correct. No other warranties are expressed or implied.

Source: DRP Enterprises LLC, August 3, 2022.

Sun Mesa Self-Storage Facility

Overall Site Plan

3.3 Proposed Project Features

3.3.1 Self-Storage Units and Manager's Office

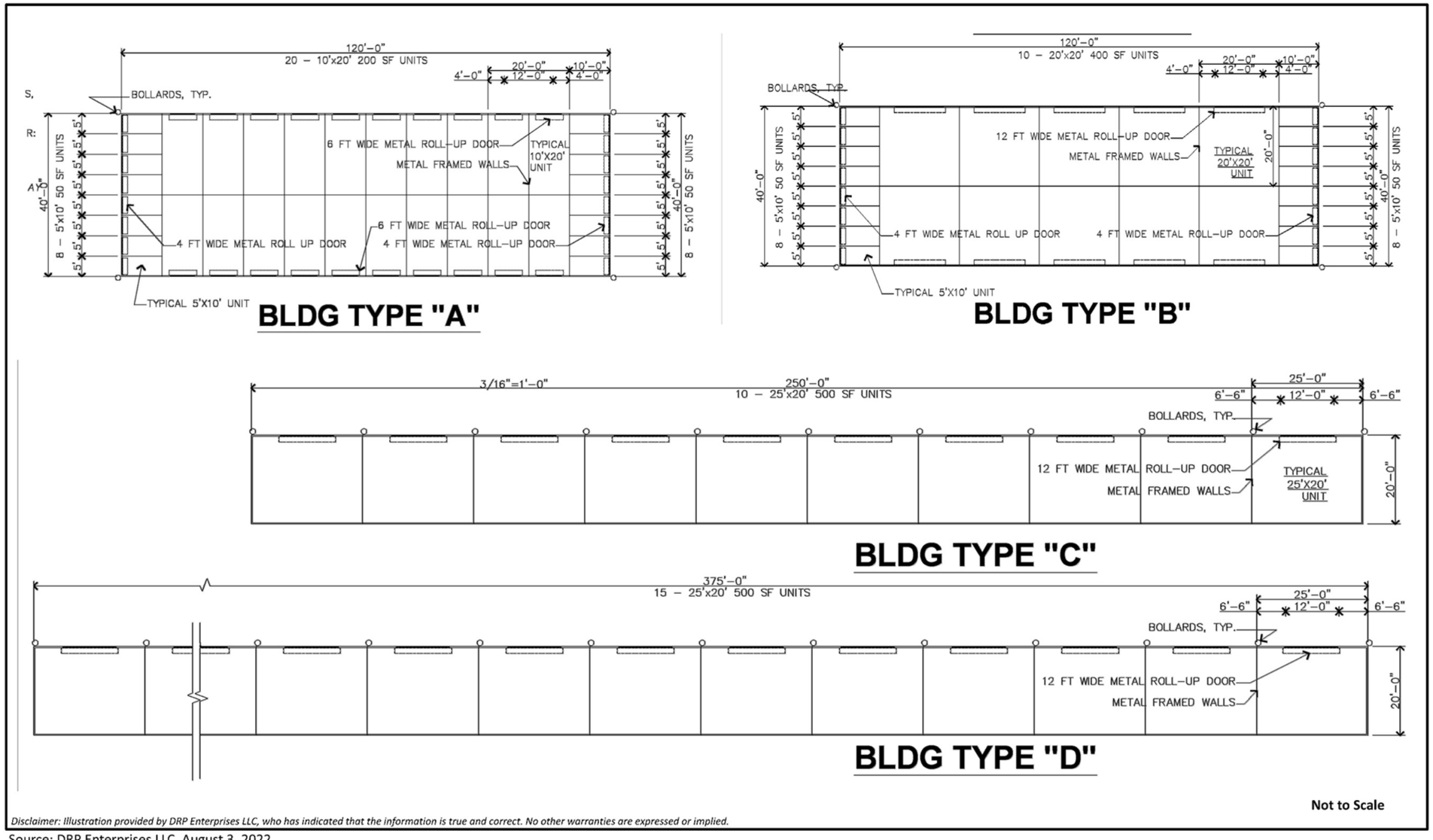
Implementation of the proposed project would develop approximately 541 self-storage units within four types of buildings referred to as Type A, Type B, Type C, and Type D. One manager's office would be referred to as Type E. Each type of building would consist of varying storage unit sizes. A breakdown of the units is shown below in **Table 3.3-1**. **Figures 3.3-1 to 3.3-3** depict the project's floor plan, elevations, and perspective. The proposed project includes an architectural style that would complement the surrounding desert development with brown, tan, and white colors. The color board of the project is depicted in **Figure 3.3-4**.

Table 3.3-1
BUILDING TYPE BREAKDOWN

Types	Unit Count				Area per Building (sf)	Number of Buildings	Area per Building Type (sf)
	5 x 10 (50 sf)	10 x 20 (200 sf)	20 x 20 (400 sf)	25 x 20 (500 sf)			
Type A	16	20			4,800	10	48,000
Type B	16		10		4,800	6	28,800
Type C				10	5,000	1	5,000
Type D				15	7,500	1	7,500
Type E[1]			1		400	1	400
Total Units	**256**	**200**	**60[2]**	**25**		**19**	**89,700**

1. Managers Office
2. Managers Office not included

Figure 3.3-1
FLOOR PLAN



Disclaimer: Illustration provided by DRP Enterprises LLC, who has indicated that the information is true and correct. No other warranties are expressed or implied.

Source: DRP Enterprises LLC, August 3, 2022.

Sun Mesa Self-Storage Facility

Floor Plans

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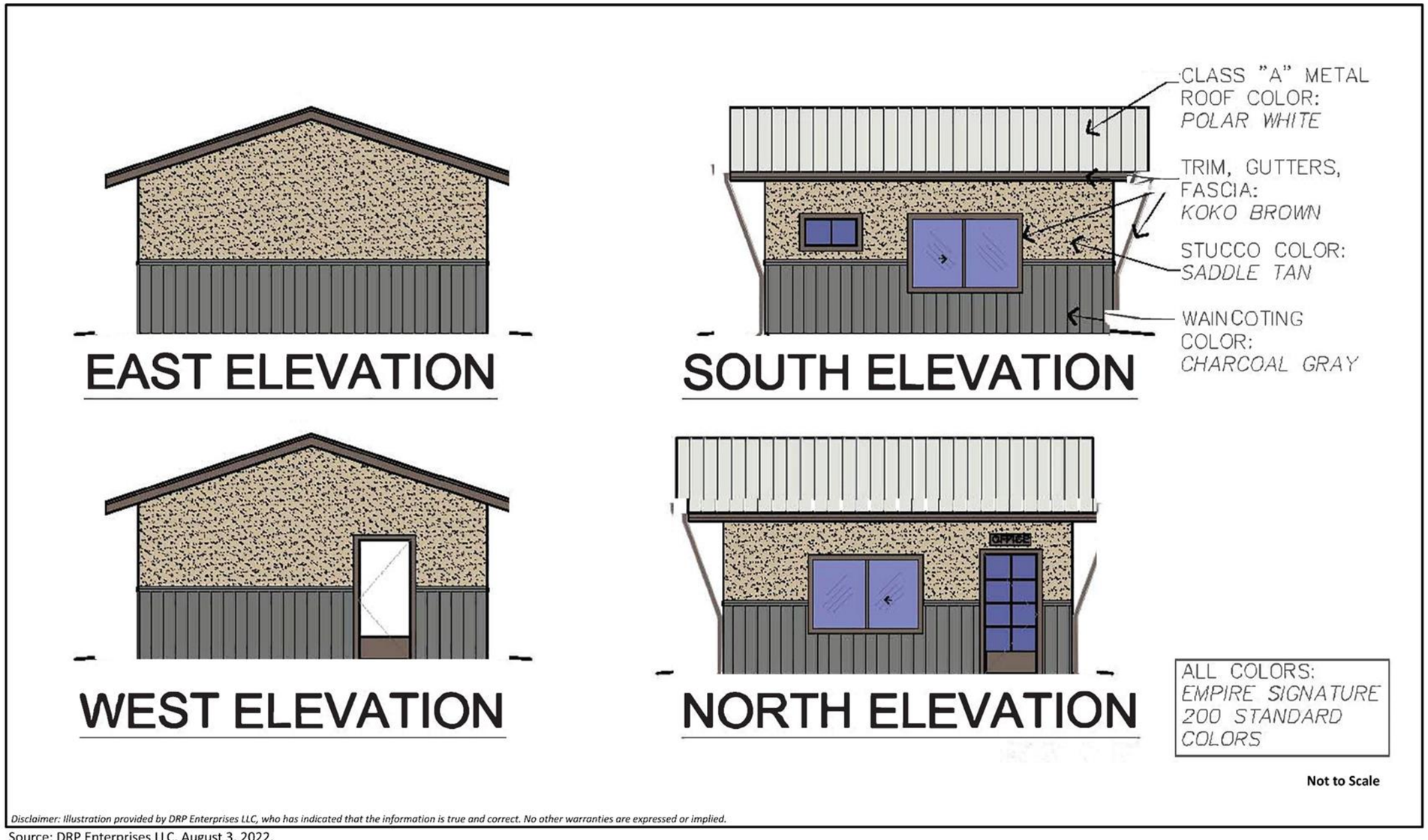
Figure 3.3-2
ELEVATIONS



Disclaimer: Illustration provided by DRP Enterprises LLC, who has indicated that the information is true and correct. No other warranties are expressed or implied.

Source: DRP Enterprises LLC, August 3, 2022.

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Elevation Plans

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Figure 3.3-3
PERSPECTIVE

NOTE: THESE PERSPECTIVE ELEVATIONS ARE REPRESENTATIVE ONLY, TO ILLUSTRATE THE TYPE OF METAL BUILDING PROPOSED.

Disclaimer: Illustration provided by DRP Enterprises LLC, who has indicated that the information is true and correct. No other warranties are expressed or implied.

Source: DRP Enterprises LLC, August 3, 2022.

Sun Mesa Self-Storage Facility

Sample Perspective Elevations

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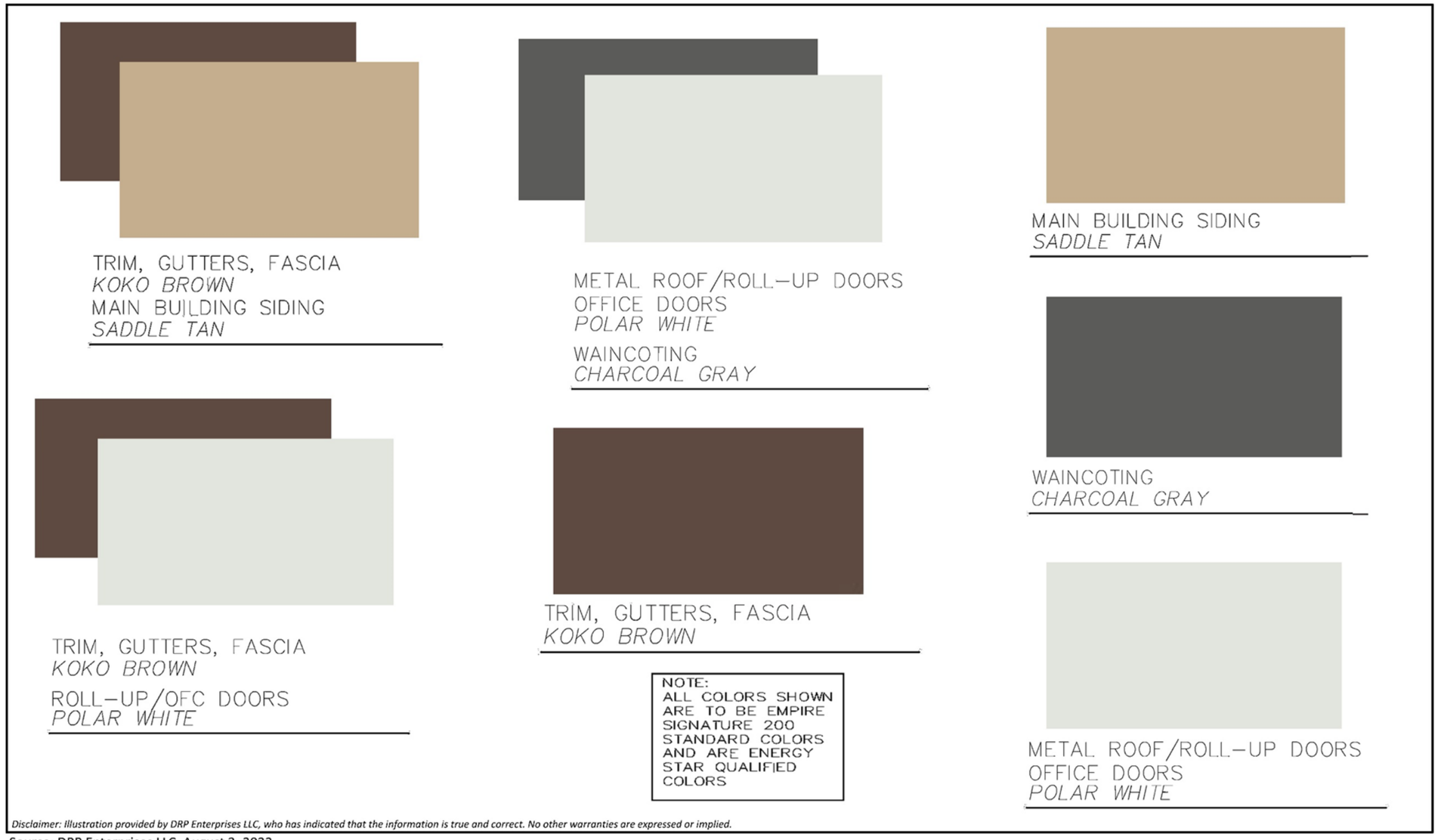
Figure 3.3-4
COLOR BOARDS



Source: DRP Enterprises LLC, August 3, 2022.

Sun Mesa Self-Storage Facility

Color Board

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Landscaping

The proposed project includes several landscaped areas along the perimeter and the manager's office as shown in **Figure 3.3-5;** the total landscaped area is approximately 15,378 square feet (eight percent of total site area). Landscaping would consist of several deciduous trees, drought tolerant shrubs/native plants and decorative rocks.

3.3.2 Site Access, Circulation and Parking

Site ingress and egress would be provided by two 30-foot-wide driveways located on Newton Lane. Access to storage units would be provided through several internal lanes that vary from 15 to 30 feet in width. Parking would be at the manager's office area at the western portion of the site. Access to parking would be via a main driveway running north/south through the middle of the site. Sidewalks and pedestrian travel paths are proposed throughout.

The proposed project includes 10 parking spaces, consisting of eight standard parking spots, one standard American Disability Act (ADA) parking spot and one van ADA spot. Additionally, there would be five loading spots.

3.3.3 Exterior Lighting

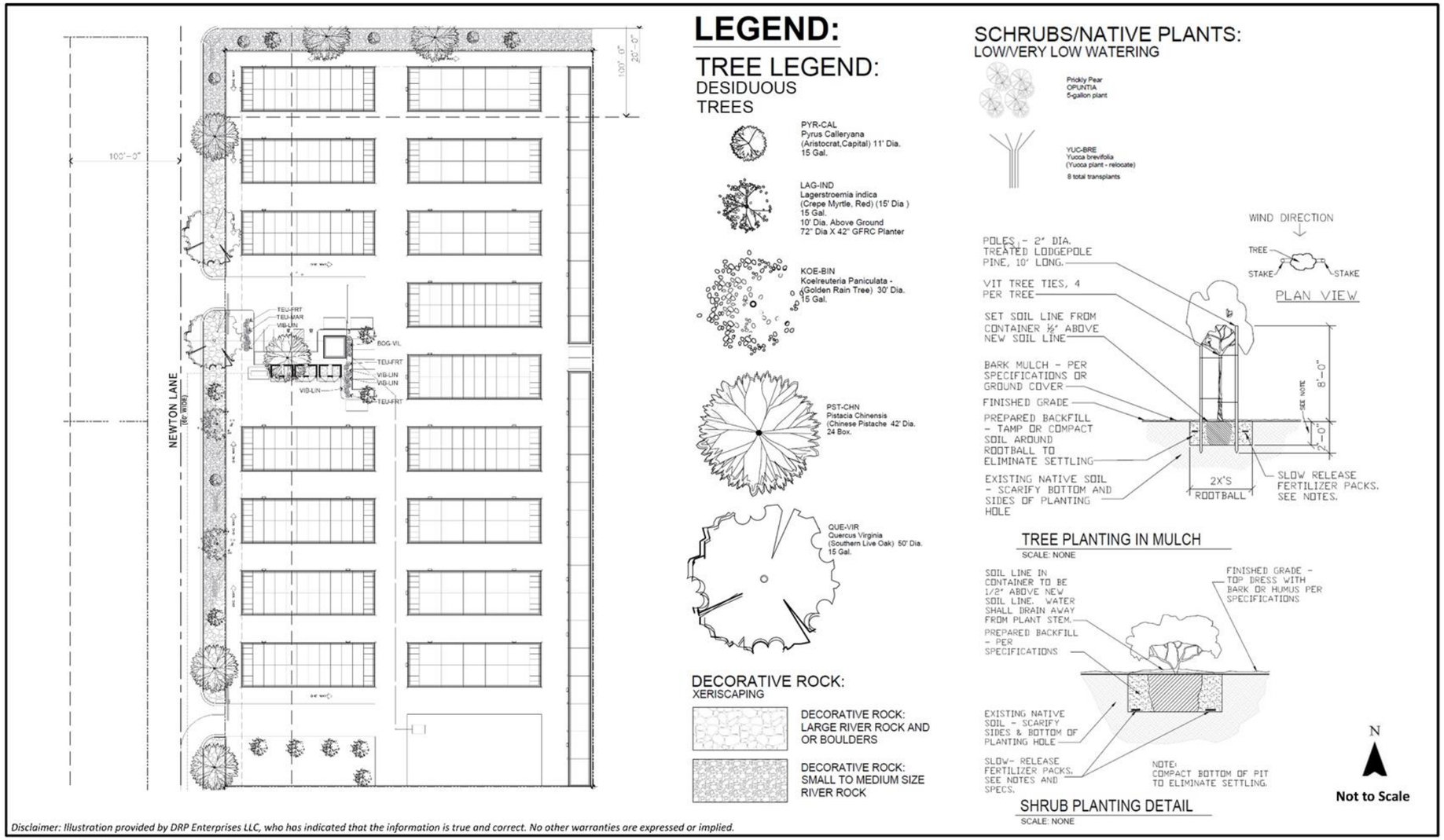
The proposed project includes area lighting throughout the project site. Lighting for the project would comply with the requirements of the Town's Municipal Code Chapter 8.70. Specifically, the project would be required to comply with Town of Yucca Valley Municipal Code § 8.70.020, "*Any outdoor lighting fixtures shielded or constructed so that light rays are only emitted by the installed fixtures at angles below a horizontal plane passing through the lowest point of the light source and so not to direct light or light trespass onto adjacent property*.."

The proposed project would include installation of exterior lighting fixtures, as necessary, for safety and security. LED exterior fixtures would be mounted on the walls of the buildings. The latest LED lighting fixtures with photosensors and motion sensors would be provided. Cut off shield would be provided as necessary to prevent light spillage beyond the project boundary. Parking lot lighting would also utilize LED technology. Photometric analysis would be conducted to ensure that the exterior lighting provided on site meets the minimum lighting levels required.

3.3.4 Perimeter Fencing and Exterior Walls

A six-foot-tall concreate masonry wall would surround the project site, except at the two driveways on Newton Lane that would have rolling security gates.

Figure 3.3-5



Disclaimer: Illustration provided by DRP Enterprises LLC, who has indicated that the information is true and correct. No other warranties are expressed or implied.

Source: DRP Enterprises LLC, August 3, 2022.

Sun Mesa Self-Storage Facility

Landscape Plan

LANDSCAPE PLAN

3.3.5 Utilities

Water supply to the project site is provided by High Desert Water District, and wastewater services are provided by a private septic disposal company. In addition, electricity supply is provided by Southern California Edison, telephone services are provided by Verizon, cable service is provided by Time Warner Cable, and solid waste disposal services are provided by Burrtec. The project would require domestic water, fire water, irrigation and dry utilities connections to existing utility infrastructure in Newton Lane. A septic system, including a leach field at the south end of the project, will handle wastewater.

3.3.6 Offsite Improvements

Construction would need to occur in Newton Lane and Sun Mesa Drive, which would be paved to half-width (26 feet) along the western and northern project boundaries (along with sidewalk and gutters), respectively, and to connect the electric lines and water supply for the proposed project to the existing underground lines in Newton Lane.

3.4 Construction Activities

For safety reasons, temporary barricades would be used to limit access to the site during project construction and maintain safe access for construction workers. Construction would occur during daylight and during regular business hours. Lighting for the construction site would be limited to the minimum amount of light needed for safety and security.

Site grading would involve a cut of 4,970 cubic yards (cy) and fill of 4,485 cy of soil. After site preparation is completed, infrastructure such as sewer laterals and storm drains would be installed and/or connected to existing facilities. The building foundations would be poured and assembly of prefabricated metal panels of the buildings would begin. The final steps of construction would involve interior furnishings, detailed work, and completion of common areas and outside landscaping.

The only offsite improvements would be street-related improvements and installation of utility laterals and connections of laterals to the mains. The construction contractor would use heavy equipment during grading. Construction staging would be limited to the project site; no offsite areas would be used.

Construction Schedule

Construction activities will be conducted in two phases,-. Phase 1 will include construction of seven storage buildings (252 storage units totaling 33,600 sf) plus the 400-sf manager's unit, and Phase 2 will include construction of 11 buildings (290 storage units totaling 29,688 sf).

Construction would start in January 2026. Construction of Phase 1 will take three to four months. Start of Phase 2, which includes the offsite improvements, will be dependent on the lease-up of units in Phase 1. Construction of Phase 2 will take an additional three to four months to complete.

3.5 Discretionary Actions

The proposed project includes an application for a Site Plan Review. No other discretionary actions are required.

3.6 Other Permits and Approvals

Following the Town's approval of the Initial Study/Mitigated Negative Declaration, the following permits/approvals, as shown in **Table 3.6-1,** would be required prior to construction.

Table 3.6-1
PERMITS AND APPROVALS

Agency	Permit or Approval
Town of Yucca Valley Building & Safety Division	Building Permits
Town of Yucca Valley Public Works/Engineering Department	Grading Permit, Street Improvement Plan, and Encroachment Permit
Town of Yucca Valley Planning Division	Site Plan Review and Environmental Assessment
San Bernardino County Fire Protection District	Building plan check and approval. Review for compliance with the current California Fire Code, current California Building Code, California Health & Safety Code and Town of Fontana Municipal Code. Plans for fire detection and alarm systems, and automatic sprinklers.

4.0 ENVIRONMENTAL CHECKLIST

Environmental Factors Potentially Affected

The environmental factors checked below would be potentially affected by this project, involving at least one impact that is a "Potentially Significant Impact" or as a "Potentially Significant Unless Mitigation Incorporated," as indicated by the checklist on the following pages.

☐ Aesthetics	☐ Agricultural and Forest Resources	☐ Air Quality
☒ Biological Resources	☒ Cultural Resources	☐ Energy
☒ Geology / Soils	☐ Greenhouse Gas Emissions	☐ Hazards & Hazardous Materials
☐ Hydrology / Water Quality	☐ Land Use / Planning	☐ Mineral Resources
☒ Noise	☐ Population / Housing	☐ Public Services
☐ Recreation	☐ Transportation	☒ Tribal Cultural Resources
☐ Utilities/Service Systems	☐ Wildfire	☒ Mandatory Findings of Significance

Determination (To Be Completed by the Lead Agency)

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☒ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect (1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and (2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☐ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature	Date
Printed Name	Town of Yucca Valley

Evaluation of Environmental Impacts

(1) A brief explanation is required for all answers except "No Impact" answers that are adequately supported by the information sources a lead agency cites in the parentheses following each question. A "No Impact" answer is adequately supported if the referenced information sources show that the impact simply does not apply to projects like the one involved (e.g., the project falls outside a fault rupture zone). A "No Impact" answer should be explained where it is based on project-specific factors, as well as general standards (e.g., the project would not expose sensitive receptors to pollutants, based on a project-specific screening analysis).

(2) All answers must take into account the whole action involved, including offsite as well as onsite, cumulative as well as project-level, indirect as well as direct, and construction as well as operational impacts.

(3) Once the lead agency has determined that a particular physical impact may occur then the checklist answers must indicate whether the impact is potentially significant, less than significant with mitigation, or less than significant. "Potentially Significant Impact" is appropriate if there is substantial evidence that an effect may be significant. If there are one or more "Potentially Significant Impact" entries when the determination is made, an EIR is required.

(4) "Negative Declaration: Less than Significant with Mitigation Incorporated" applies where the incorporation of mitigation measures has reduced an effect from "Potentially Significant Impact" to a "Less than Significant Impact." The lead agency must describe the mitigation measures and briefly explain how they reduce the effect to less than significant level.

(5) Earlier analyses may be use where, pursuant to the tiering, Program EIR, or other CEQA process, an affect has been adequately analyzed in an earlier EIR or negative declaration. (See Section 15063(c)(3)(D) of the CEQA Guidelines. In this case, a brief discussion should identify the following:

(a) Earlier Analyses Used. Identify and state where the earlier analysis available for review.

(b) Impacts Adequately Addressed. Identify which effects from the above checklist were within the scope of and adequately analyzed in an earlier document pursuant to applicable legal standards, and state whether such effects were addressed by mitigation measures based on the earlier analysis.

(c) Mitigation Measures. For effects that are "Less than Significant with Mitigation Measures Incorporated," describe the mitigation measures that were incorporated or refined from the earlier document and the extent to which they address site-specific conditions for the project.

(6) Lead agencies are encouraged to incorporate into the checklist references to information sources for potential impacts (e.g., general plans, zoning ordinances). Reference to a previously prepared or outside document should, where appropriate, include a reference to the page or pages where the statement is substantiated. A source list should be attached and other sources used or individuals contacted should be cited in the discussion.

(7) Supporting Information Sources: A source list should be attached, and other sources used or individuals contacted should be cited in the discussion.

(8) This is only a suggested form, and lead agencies are free to use different formats; however, lead agencies should normally address the questions from this checklist that are relevant to a project's environmental effects in whatever format is selected.

(9) The explanation of each issue should identify:

(a) The significance criteria or threshold, if any, used to evaluate each question; and
(b) The mitigation measure identified, if any, to reduce the impact to less than significant.

4.1 Aesthetics

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Have a substantial adverse effect on a scenic vista?			**X**	
b) Substantially damage scenic resources, including, but not limited to, trees, outcroppings, and historic buildings within a state scenic highway?				**X**
c) In non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?			**X**	
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?			**X**	

a) Would the project have a substantial adverse effect on a scenic vista?

Less than Significant Impact

The Town's General Plan does not specify specific scenic vistas. However, Yucca Valley's scenic resources are a valued local asset. The natural setting of the Town is characterized by the ridges and hillsides north, west, and south of the Town and the desert valley lands to the east. The desert environment, natural resources, and active open space opportunities are a core aspect of Yucca Valley's character and are a significant attraction for visitors seeking recreation. Views from the Town situate the community in its local environment and landscape and are an important element of the Town's quality of life. Many of the scenic resources that are valued by Yucca Valley residents and visitors are outside the Town limits and beyond the planning area boundary. Such areas include the views of the Little San Bernardino Mountains of the Peninsular Ranges, the San Bernardino Mountains on the easternmost of the Transverse ranges surrounding the Town, and Yucca Valley's hillside areas (Town of Yucca Valley, 2014, p. 5-34).

There are distant views of surrounding mountains and ridgelines from the project site. The project would develop a storage facility with associated office, parking and landscaping. The height of the proposed buildings would range from nine to 12 feet tall, similar to the height of the surrounding commercial, industrial and residential buildings. Therefore, development would not significantly affect the distant views of the mountains as the proposed project would be of similar height, mass

and scale consistent with the existing land uses in the surrounding area, resulting in less than significant impacts.

b) Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

No Impact

The California Department of Transportation (Caltrans) provides information regarding officially designated or eligible state scenic highways, designated as part of the California Scenic Highway Program. As shown in **Figure 4.1-1**, the nearest officially designated state scenic highway to the project site is the State Route 62 (SR 62) freeway approximately 13.2 miles southwest. Due to the large distance between the project site and SR 62, construction and implementation of the project would have no impacts on state scenic highways. Therefore, the project would have no impacts on trees, rock outcroppings and historic buildings within a state scenic highway.

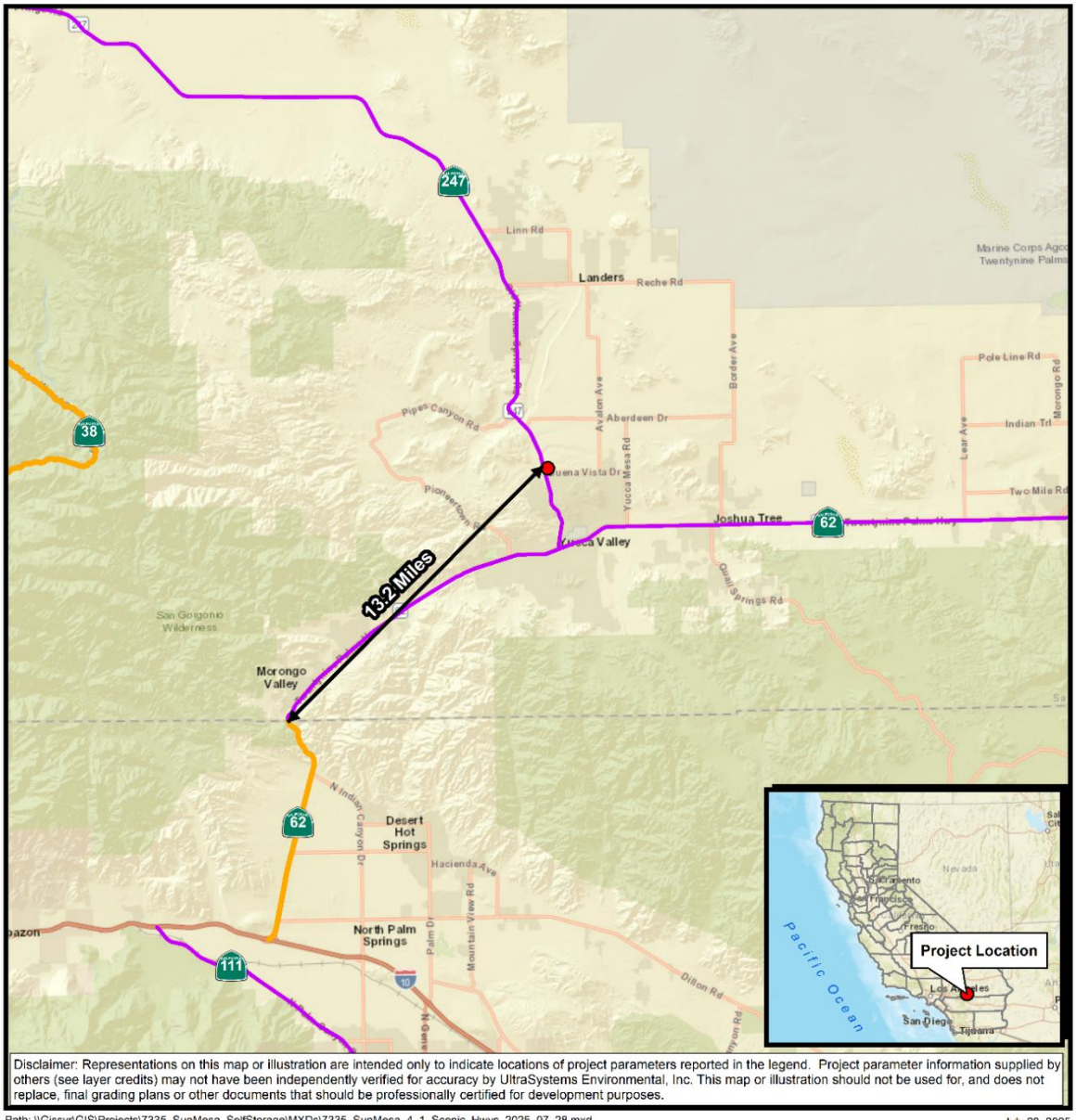
c) In non-urbanized areas, would the project substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Less than Significant Impact

The Town of Yucca Valley is an incorporated municipality with a population of 21,740 as of the 2020 U.S. Census (U.S. Census Bureau, 2020). Because the Town's population is below 100,000 and its density is less than 1,000 persons per square mile, Yucca Valley is considered a non-urbanized area under Public Resources Code § 21071 and, accordingly, the project site is located in a non-urbanized setting. Therefore, the analysis below determines if the project would substantially degrade the existing visual character or quality of the site and its surroundings.

As shown in **Section 2.0 Environmental Setting**, the project site is located in a rural setting characterized by a mix of commercial, industrial and residential land uses and vacant land. Specific land uses include a truck storage yard, natural gas truck storage, gas station, convenience store, and single-family residences. Views of the existing streetscape are characterized by low height (one-story) buildings, utilities (including utility lines, poles, and street lights) and landscaping. The project would develop a commercial mini storage facility with one-story buildings that would be similar in height, mass and scale to the surrounding development. Therefore, impacts under this category would be less than significant.

Figure 4.1-1
STATE SCENIC HIGHWAYS



Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others (see layer credits) may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

Path: \\Gissvr\GIS\Projects\7335_SunMesa_SelfStorage\MXDs\7335_SunMesa_4_1_Scenic_Hwys_2025_07_28.mxd
July 28, 2025
Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community; Caltrans, 2021; UltraSystems Environmental, Inc., 2025.

Scale: 1:316,800
N
0 2.5 5 Miles
0 2.5 5 Kilometers

Legend
- Project Location
- Officially Designated State Scenic Highway
- Eligible State Scenic Highway

Sun Mesa Self-Storage Facility
Scenic Highways and National Byways

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d) Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Less Than Significant Impact

Yucca Valley benefits from its proximity to land uses that emit little or no light pollution. The limited lighting in the Morongo Basin and surrounding region preserves the natural night environment and allows for views of astronomical features. The glow of lights in urbanized areas brightens the night sky, and excessive light at night can interrupt natural cycles and behavior of both humans and wildlife. Focusing lights where they are needed for public safety and direction reduces light pollution and glare, allowing the sky to be observed and enjoyed in a more natural state. Preservation of dark skies continues to be a priority for the Town and will be a consideration in future project design as the community grows (Town of Yucca Valley, 2014, p. 5-34).

The project would introduce interior building lights and exterior lights for security and visibility purposes. However, the project lighting would adhere to Chapter 8.70 Outdoor Lighting of the Town's Municipal Code, which ensures less than significant light, glare and views of the night sky. Therefore, with adherence to the Municipal Code, impacts regarding light and glare would be less than significant.

4.2 Agriculture and Forestry Resources

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?				**X**
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?				**X**
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code § 12220(g)), timberland (as defined by Public Resources Codes § 4526), or timberland zoned Timberland Production (as defined by Government Code § 51104(g))?				**X**
d) Result in the loss of forest land or conversion of forest land to non-forest use?				**X**
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?				**X**

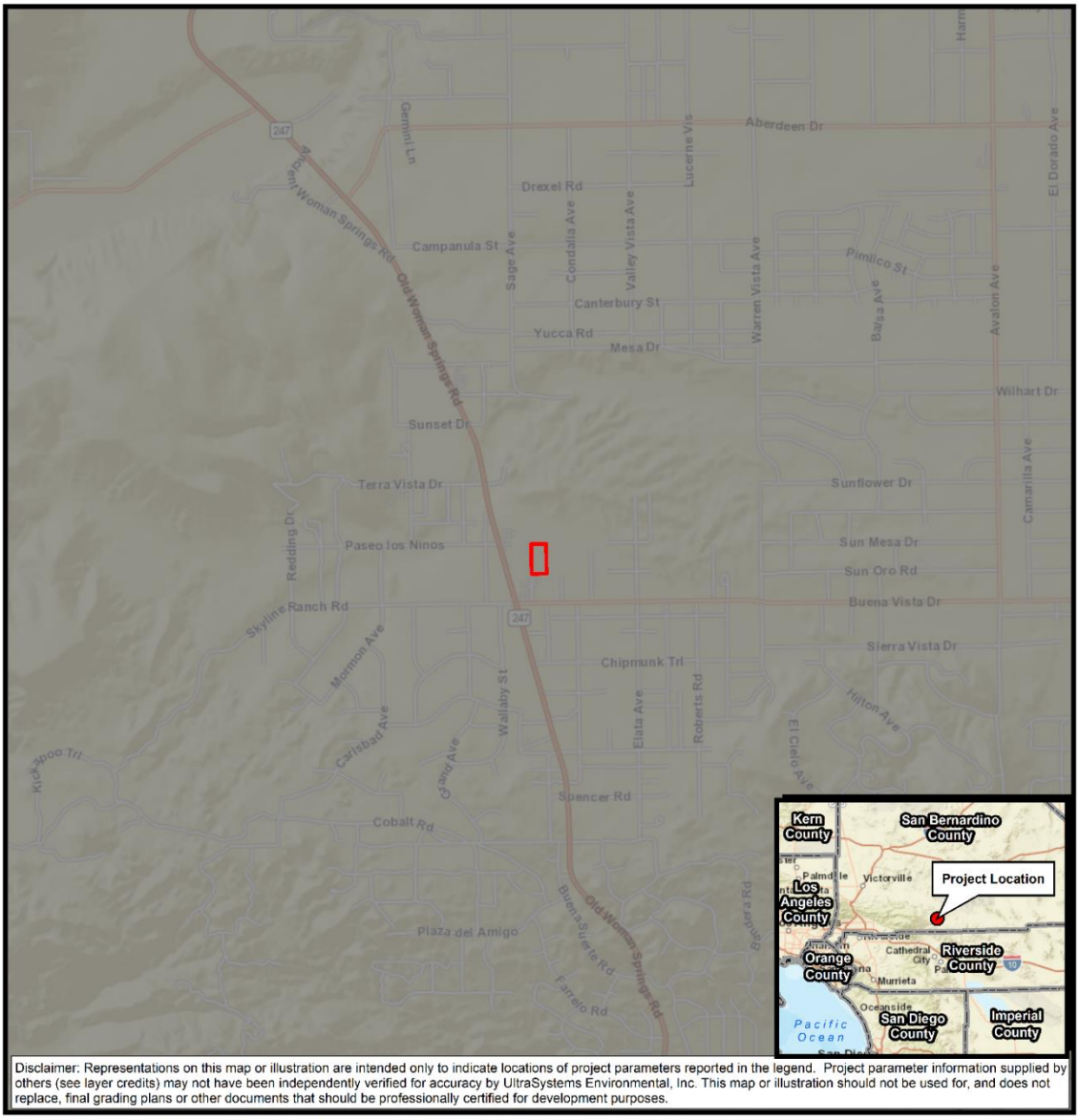
a) Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

No Impact

The project site and surrounding uses are designated by the Division of Land Resource Protection (DLRP) as "Out of Survey Area" (see **Figure 4.2-1** below), which is land that falls outside of the Natural Resources Conservation Service (NRCS) soil survey. Out of Survey Area is not mapped by the Farmland Mapping & Monitoring Program (FMMP).

Therefore, no farmland shown on the maps prepared pursuant to the FMMP would be converted to non-agricultural use and no impacts would occur.

Figure 4.2-1
IMPORTANT FARMLAND CATEGORIES



b) Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?

No Impact

The project site is zoned Industrial (I) and is not zoned for agricultural use. Williamson Act contracts restrict the use of privately-owned land to agriculture and compatible open space uses under contract with local governments; in exchange, the land is taxed based on actual use rather than potential market value. Williamson Act contracts are made only on land within agricultural reserves; the project site is not within an agricultural reserve. Therefore, the project would not conflict with existing zoning for agricultural use or a Williamson Act contract, and no impact would occur.

c) Would the project (c) conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code § 12220(g)), timberland (as defined by Public Resources Codes § 4526), or timberland zoned Timberland Production (as defined by Government Code § 51104(g))?

No Impact

The project site is zoned Industrial (I); the site is not zoned for forest, timberland, or timberland production use. Therefore, project development would not conflict with zoning for forest land or timberland, and no impact would occur.

d) Would the project result in the loss of forest land or conversion of forest land to non-forest use?

No Impact

The project site and surroundings are not cultivated for forest resources. Therefore, project development would not result in the loss of forest land or conversion of forest land to non-forest use, and no impact would occur.

e) Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

No Impact

The project site is vacant, and there are no residences surrounding the project site. No important farmland is near the project site, and no forest land is on or near the site. Therefore, project development would not indirectly cause conversion of farmland to non-agricultural use or conversion of forest land to non-forest use, and no impacts would occur.

4.3 Air Quality

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Conflict with or obstruct implementation of the applicable air quality plan?			**X**	
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard?			**X**	
c) Expose sensitive receptors to substantial pollutant concentrations?			**X**	
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?			**X**	

The following analysis of the proposed project's Air Quality impacts is based substantially on a memorandum prepared by LSA Associates, Inc (LSA) on September 16, 2025: *Air Quality, Energy, and Greenhouse Gas Technical Memorandum for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California* (LSA., 2025a). This memorandum is included as **Appendix B**. Attachment B to the memorandum includes results of the model (CalEEMod 2022.1.1.28) that LSA used to estimate the proposed project's air pollutant emissions.[5]

4.3.1 Pollutants of Concern

Criteria pollutants are air pollutants for which acceptable levels of exposure can be determined and an ambient air quality standard has been established by the U.S. Environmental Protection Agency (USEPA) and/or the California Air Resources Board (ARB). The criteria air pollutants of concern are nitrogen dioxide (NO_2), carbon monoxide (CO), particulate matter (PM_{10} and $PM_{2.5}$), sulfur dioxide (SO_2), lead (Pb), and ozone, and their precursors, such as reactive organic gases (ROG) (which are ozone precursors). Since the Yucca Valley Sun Mesa Self-Storage Facility Project (project) would not generate appreciable SO_2 or Pb emissions,[6] the analysis doesn't need to include those two pollutants. The following is a description of the air pollutants of concern and their associated health effects.

The project is in the southwestern San Bernardino County portion of the Mojave Desert Air Basin (MDAB), for which the Mojave Desert Air Quality Management District (MDAQMD) is substantially responsible for air pollution control. **Table 4.3-1** shows the attainment status of the MDAB for each criteria pollutant for both the National Ambient Air Quality Standards (NAAQS) and California

5 See **Section 4.8.6**.
6 Sulfur dioxide emissions will be below 0.05 pound per day during construction and operations.

Ambient Air Quality Standards (CAAQS). Presented below is a description of the air pollutants of concern and their known health effects.

Nitrogen oxides (NO_X) serve as integral participants in the process of photochemical smog production and are precursors for certain particulate compounds that are formed in the atmosphere and for ozone. A precursor is a directly emitted air contaminant that, when released into the atmosphere, forms, causes to be formed, or contributes to the formation of a secondary air contaminant for which an ambient air quality standard (AAQS) has been adopted, or whose presence in the atmosphere will contribute to the violation of one or more AAQSs. When NO_X and ROG are released in the atmosphere, they can chemically react with one another in the presence of sunlight to form ozone. The two major forms of NO_X are nitric oxide (NO) and NO_2. NO is a colorless, odorless gas formed from atmospheric nitrogen and oxygen when combustion takes place under high temperature and/or high pressure. NO_2 is a reddish-brown, pungent gas formed by the combination of NO and oxygen. NO_2 acts as an acute respiratory irritant and eye irritant and increases susceptibility to respiratory pathogens (USEPA, 2025a).

Table 4.3-1
FEDERAL AND STATE ATTAINMENT STATUS

Pollutants	Federal Classification	State Classification
Ozone (O_3)	Nonattainment[a]	Nonattainment
Particulate Matter (PM_{10})	Nonattainment[b]	Nonattainment
Fine Particulate Matter ($PM_{2.5}$)	Attainment/Unclassified	Nonattainment[a]
Carbon Monoxide (CO)	Attainment/Unclassified	Attainment
Nitrogen Dioxide (NO_2)	Attainment/Unclassified	Attainment
Sulfur Dioxide (SO_2)	Attainment/Unclassified	Attainment
Lead (Pb)[a]	Attainment/Unclassified	Attainment
All Others	N/A	Attainment/Unclassified

Source: MDAQMD, 2024.
[a] Only the southwest corner of the desert portion of San Bernardino County is Nonattainment.
[b] Only the San Bernardino County portion is Nonattainment.

Carbon monoxide (CO) is a colorless, odorless, non-reactive pollutant produced by the incomplete combustion of fossil fuels. CO is emitted almost exclusively from motor vehicles, power plants, refineries, industrial boilers, ships, aircraft, and trains. In urban areas, such as the project location, automobile exhaust accounts for most CO emissions. CO is a non-reactive air pollutant that dissipates relatively quickly; therefore, ambient CO concentrations generally follow the spatial and temporal distributions of vehicular traffic. CO concentrations are influenced by local meteorological conditions, primarily wind speed, topography, and atmospheric stability. CO from motor vehicle exhaust can become locally concentrated when surface-based temperature inversions are combined with calm atmospheric conditions, a typical situation at dusk in urban areas between November and February. The highest levels of CO typically occur during the colder months of the year when inversion conditions are more frequent. In terms of health, CO competes with oxygen, often replacing it in the blood, thus reducing the blood's ability to transport oxygen to vital organs. The results of

excess CO exposure can be dizziness, fatigue, and impairment of central nervous system functions. High concentrations are lethal (USEPA, 2025c).

Particulate matter (PM) consists of finely divided solids or liquids, such as soot, dust, aerosols, fumes, and mists. Primary PM is emitted directly into the atmosphere from activities such as agricultural operations, industrial processes, construction and demolition activities, and entrainment of road dust into the air. Secondary PM is formed in the atmosphere from predominantly gaseous combustion by-product precursors, such as sulfur oxides, NO_X, and ROGs.

Particle size is a critical characteristic of PM that primarily determines the location of PM deposition along the respiratory system (and associated health effects) as well as the degradation of visibility through light scattering. In the United States, federal and state agencies have focused on two types of PM. PM_{10} corresponds to the fraction of PM no greater than 10 micrometers in aerodynamic diameter and is commonly called respirable particulate matter, while $PM_{2.5}$ refers to the subset of PM_{10} of aerodynamic diameter smaller than 2.5 micrometers, which is commonly called fine particulate matter.

PM_{10} and $PM_{2.5}$ deposition in the lungs results in irritation that triggers a range of inflammation responses, such as mucus secretion and bronchoconstriction, and exacerbates pulmonary dysfunctions, such as asthma, emphysema, and chronic bronchitis. Sufficiently small particles may penetrate the bloodstream and impact functions such as blood coagulation, cardiac autonomic control, and mobilization of inflammatory cells from the bone marrow. Individuals susceptible to higher health risks from exposure to PM_{10} airborne pollution include children, the elderly, smokers, and people of all ages with low pulmonary/cardiovascular function. For these individuals, adverse health effects of PM_{10} pollution include coughing, wheezing, shortness of breath, phlegm, bronchitis, and aggravation of lung or heart disease, leading, for example, to increased risks of hospitalization and mortality from asthma attacks and heart attacks (USEPA, 2025d).

Reactive organic gases (ROG) are defined as any compound of carbon, excluding CO, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. It should be noted that there are no state or national ambient air quality standards for ROG because ROGs are not classified as criteria pollutants. They are regulated, however, because a reduction in ROG emissions reduces certain chemical reactions that contribute to the formation of ozone. ROGs are also transformed into organic aerosols in the atmosphere, which contribute to higher PM_{10} and lower visibility. The term "ROG" is used by the ARB for this air quality analysis and is defined the same as the federal term "volatile organic compound" (VOC).

Ozone is a secondary pollutant produced through a series of photochemical reactions involving ROG and NO_X. Ozone creation requires ROG and NO_X to be available for approximately three hours in a stable atmosphere with strong sunlight. Because of the long reaction time, peak ozone concentrations frequently occur downwind of the sites where the precursor pollutants are emitted. Thus, ozone is considered a regional, rather than a local, pollutant. The health effects of ozone include eye and respiratory irritation, reduction of resistance to lung infection and possible aggravation of pulmonary conditions in persons with lung disease. Ozone is also damaging to vegetation and untreated rubber (USEPA, 2025e).

4.3.2 Climate/Meteorology

Air quality is affected by both the rate and location of pollutant emissions, and by meteorological conditions that influence the movement and dispersal of pollutants. Atmospheric conditions such as wind speed, wind direction, and air temperature gradients, along with local topography, provide the link between air pollutant emissions and air quality.

The MDAB is an assemblage of mountain ranges interspersed with long, broad valleys that often contain dry lakes. Many of the lower mountains that dot the vast terrain rise from 1,000 to 4,000 feet above the valley floor. The Basin encompasses desert portions of Kern, Los Angeles, Riverside, and San Bernardino counties. It is surrounded by national forests to the south and west and desert to the north and east.

The MDAB is classified as a dry-hot desert (BWh), with portions classified as dry-very hot desert (BWhh), to indicate that at least three months have maximum average temperatures over 100.4 degrees Fahrenheit (°F) (MDAQMD, 2020a, p. 6-7).

The nearest meteorological station is the Joshua Tree station (#044405, latitude 34.1333°, longitude: -116.3166°) (WRCC, 2016), which is approximately 6.35 miles southeast of the project site, with a period of record from June 1, 1959, to June 10, 2016. The average high and low temperatures recorded there are 79.6°F and 51.2°F, respectively. Average winter (December, January, and February) high and low temperatures are 60.63°F and 37.07°F, respectively, and average summer (June, July, and August) high and low temperatures are 98.47°F and 66.97°F, respectively. The annual average of total precipitation is 4.69 inches, which occurs mostly during the winter and relatively infrequently during the summer. Monthly precipitation averages 0.63 inch during the winter (December, January, and February), 0.23 inch during the spring (March, April, and May), 0.42 inch during the fall (September, October, and November), and 0.28 inch during the summer (June, July, and August).

4.3.3 Local Air Quality

The project site is served by four MDAQMD monitoring stations. The nearest station that monitors ozone is the Hesperia-Olive Street air monitoring site (ARB Number 36201), 50 miles west at 17288 Olive Street in Hesperia. The nearest station that monitors PM_{10} is the Lucerne Valley-Middle School air monitoring site (ARB No. 36208), at 33233 Rabbit Springs Road in Lucerne Valley, about 35 miles northwest of the project. The nearest station that monitors $PM_{2.5}$ is the Big Bear City air monitoring site (ARB No. 36001), 501 West Valley Boulevard, in Big Bear, about 25 miles northwest of the project. The nearest station that monitors NO_2 is the Victorville air monitoring site (ARB No. 36306), at 14306 Park Avenue in Victorville, about 56 miles northwest of the project (ARB, 2025).

This was updated using the LSA AQ Memorandum (August 2025) and iADAM Air Resource Board (ARB, 2025).

The ambient air quality data in the project vicinity, as recorded from 2022 through 2024, along with applicable standards, are shown in **Table 4.3-2**. The data in the table were updated from those reported in the LSA Air Quality, Energy, and Greenhouse Gas Technical Memorandum (LSA, 2025a).

Table 4.3-2
AMBIENT AIR QUALITY MONITORING DATA

Air Pollutant	Standard/Exceedance	2022	2023	2024
Ozone – Hesperia-Olive Street	Max. 1-hour Concentration (ppm)	0.108	0.110	0.121
	Max. 8-hour Concentration (ppm)	0.090	0.098	0.106
	# Days > Federal 8-hour Std. of 0.070 ppm	49	53	66
	# Days > California 1-hour Std. of 0.09 ppm	11	11	14
	# Days > California 8-hour Std. of 0.070 ppm	52	54	70
PM_{10} – Lucerne Valley-Middle School	Max. 24-hour Concentration (µg/m^3)	60.2	112	105
	Est. # Days > Fed. 24-hour Std. of 150 µg/m^3	ND	0	0
	Federal Annual Arithmetic Mean (12 µg/m^3)	21.4	19.2	20.9
$PM_{2.5}$ - Big Bear City-501 W. Valley Blvd	Max. 24-hour Concentration (µg/m^3)	31.6	21	372.1
	# Days > Fed. 24-hour Std. of 35 µg/m^3	0	0	8.7
	State Annual Average (12 µg/m^3)	8.3	ND	ND
NO_2 – Victorville-14306 Park Avenue	Max. 1-hour Concentration (ppm)	0.060	0.060	0.050
	State Annual Average (0.030 ppm)	0.012	0.010	0.010
	# Days > California 1-hour Std. of 0.18 ppm	0	0	0

Source: ARB, 2025.
ND - There was insufficient (or no) data available to determine the value.

4.3.4 Regulatory Setting

Under the Federal Clean Air Act and the California Clean Air Act (CCAA),[7] the MDAQMD has adopted a variety of attainment plans for a variety of nonattainment pollutants. The District has primary responsibility for regulating stationary sources of air pollution located within its jurisdictional boundaries. It implements air quality programs required by state and federal mandates, enforces rules and regulations based on air pollution laws and educates businesses and residents about their role in protecting air quality and the risks of air pollution (MDAQMD, 2022).

The 1995 Final Mojave Desert Planning Area, Federal Particulate Matter (PM_{10}) Attainment Plan (MDAQMD, 1995) was adopted by the MDAQMD board on July 31, 1995. A Certification of District Measures to Reduce PM Pursuant to Former Health & Safety Code § 39614(d) was received and filed by the ARB on January 27, 2020 (MDAQMD, 2020b). The 2008 MDAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area) was adopted by the MDAQMD Board. The USEPA designated the Western Mojave Desert area as non-attainment for the 8-hour ozone National Ambient Air Quality Standard (NAAQS) pursuant to the provisions of the Federal Clean Air Act (FCAA). A portion of the MDAQMD is included in the Western Mojave Desert non-attainment area. The most recent attainment plan that was approved by USEPA is the MDAQMD 2008 Ozone Attainment Plan adopted in 2008 (MDAQMD, 2008). The most recently adopted State plan is the 1996 Triennial Revision to the 1991 Air Quality Attainment Plan.

4.3.5 Sensitive Receptors

Some people, such as individuals with respiratory illnesses or impaired lung function because of other illnesses, persons over 65 years of age, and children under 14, are particularly sensitive to

7 CCAA of 1988.

certain pollutants. Facilities and structures where these sensitive people live or spend considerable amounts of time are known as sensitive receptors. For the purposes of a CEQA analysis, the MDAQMD considers a sensitive receptor to be a receptor such as a residence, schools, daycare centers, playgrounds and medical facilities.

The nearest sensitive receptors include a single-family home located southeast of the project site, approximately 200 feet from the project site boundary.

4.3.6 Applicable Mojave Desert Air Quality Management District Rules

Rule 403 (Fugitive Dust Control Rule)

During construction, the project would be subject to the MDAQMD Rule 403 (fugitive dust control) (MDAQMD, 2020c). The purpose of Rule 403 is to reduce the amount of PM_{10} entrained in the ambient air from anthropogenic fugitive dust sources by requiring the implementation of dust prevention, reduction, and mitigation measures. The rule applies to construction and demolition activities that disturb at least five acres of non-residential land or 10 acres of residential land, or that involve the handling or relocation of more than 2,500 cubic yards of bulk material on three consecutive days. Since the proposed project is an approximately 4.34-acre non-residential site, Rule 403 applies.

The rule prohibits any person from causing or allowing visible fugitive dust emissions to remain airborne beyond the property line of the emission source, except during high wind conditions (i.e., sustained wind speeds exceeding 25 miles per hour or average wind speeds over 15 miles per hour). It also prohibits construction-related activities from causing incremental PM_{10} concentrations to exceed 100 micrograms per cubic meter, based on a minimum of five hours of sampling using federal reference method samplers located upwind and downwind at the property boundary.

Rule 403 requires the project owner/operator to obtain and maintain a District-approved Dust Control Plan (DCP) before the start of any active operations. This plan must outline specific measures to prevent visible dust emissions, such as periodic watering of disturbed areas, use of chemical dust suppressants, timely stabilization of inactive surfaces, coverage of haul trucks, prevention and cleanup of track out onto paved roads, and reduced grading activity during high wind conditions.

Rule 1113 (Architectural Coatings)

Construction of this project will include the application of architectural coatings and be subject to MDAQMD Rule 1113 (Architectural Coatings). Rule 1113 requires anyone who supplies, sells, offers for sale, manufactures, blends or repackages any architectural coating for use within the MDAQMD, as well as any person who applies or solicits the application of any architectural coating within the District, to use coatings that contain VOC less than or equal to the VOC limits specified in Table 1 of the rule.

4.3.7 Impact Analysis

a) Would the project conflict with or obstruct implementation of the applicable air quality plan?

Less than significant Impact

The project is compatible with the general plan land use and zoning discussed in detail in **Section 4.11**. The air quality plans are based upon existing and projected land uses in the planning area. The most recent air quality plan is the MDAQMD Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-attainment Area), which was adopted on June 9, 2008. The project is compatible with that plan.

The MDAQMD has developed criteria in the form of emissions thresholds for determining whether emissions from a project are regionally significant. They are useful for estimating whether a project is likely to result in a violation of the NAAQS and/or whether the project is in conformity with plans to achieve attainment. **Table 4.3-3** shows MDAQMD CEQA significance thresholds for both construction and operation. A project is considered to have a regional air quality impact if emissions from its construction and/or operational activities exceed the corresponding MDAQMD significance thresholds.

Table 4.3-3
MDAQMD THRESHOLDS OF SIGNIFICANCE FOR CRITERIA POLLUTANTS

Pollutant	Emission Threshold (lbs/day)	Emission Threshold (short tons/year)
Volatile Organic Compounds (VOC)	137	25
Nitrogen Oxides (NO_x)	137	25
Carbon Monoxide (CO)	548	100
Sulfur Oxides (SO_x)	137	25
Particulate Matter (PM_{10})	82	15
Fine Particulate Matter ($PM_{2.5}$)	65	12

Source: MDAQMD, 2020a, Table 6.

Regional Construction Emissions

These construction activities would temporarily create emissions of dusts, fumes, equipment exhaust, and other air contaminants. Mobile sources (such as diesel-fueled equipment onsite and traveling to and from the project site) would primarily generate NO_X emissions. The quantity of emissions generated daily would vary, depending on the amount and types of construction activities occurring at the same time.

Estimated criteria pollutant emissions from the project's onsite and offsite project construction activities were calculated by LSA (September 2025) using the California Emissions Estimator Model (CalEEMod), Version 2022.1.1.28. CalEEMod is a planning tool for estimating emissions related to land use projects. Model-predicted project emissions are compared with applicable thresholds to

assess regional air quality impacts. Offroad construction equipment information was supplied by the client, but CalEEMod defaults were used for onroad construction traffic inputs.

As shown in **Table 4.3-5**, the project's annual emissions and daily emissions would not exceed Mojave Desert Air Quality Management District significance thresholds for any criteria pollutant during construction.

Table 4.3-5
MAXIMUM ANNUAL REGIONAL CONSTRUCTION EMISSIONS

Construction Year	Maximum Regional Pollutant Emissions					
	VOCs	NO_X	CO	SO_X	Total PM_{10}	Total $PM_{2.5}$
Pounds Per Day						
Site Preparation	3.7	36.1	34.0	<0.1	6.9	4.2
Grading	2.0	18.3	19.7	<0.1	2.9	1.7
Trenching	0.4	2.6	3.8	<0.1	0.2	0.1
Building Construction	1.3	11.1	16.6	<0.1	1.1	0.6
Paving	0.8	6.6	10.5	<0.1	0.5	0.3
Architectural Coating	9.7	0.9	2.4	<0.1	0.2	0.1
Maximum (lbs/day)	11.0	36.1	34.0	<0.1	6.9	4.2
MDAQMD Thresholds	137.0	137.0	548.0	137.0	82.0	65.0
Exceeds?	No	No	No	No	No	No
Tons Per Year						
2024	0.1	0.5	0.5	<0.1	0.1	<0.1
2025	0.1	0.9	1.3	<0.1	0.1	<0.1
2026	0.3	0.7	1.1	<0.1	0.1	<0.1
Maximum (tons/year)	0.3	0.9	1.3	<0.1	0.1	<0.1
MDAQMD Thresholds	25	25	100	25	15	12
Significant?	No	No	No	No	No	No

Source: Calculated by LSA (September 2025) with CalEEMod (Version 2022.1.1.28).

Regional Operational Emissions

The proposed project will develop approximately 541 self-storage units within four types of buildings, referred to as Type A, Type B, Type C, and Type D. A manager's office would be designated as Type E. Each type of building would consist of varying storage unit sizes. Operational emissions generated by area sources, motor vehicles, and energy demand would result from the normal day-to-day activities of the project. The results of these calculations are presented in **Table 4.3-6**. As seen in the table, for each criteria pollutant, operational emissions would be below the pollutant's MDAQMD significance threshold. Therefore, regional operational emissions would be less than significant.

Table 4.3-6
MAXIMUM ANNUAL PROJECT OPERATIONAL EMISSIONS

Emission Type	Pollutant Emissions					
	VOCs	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Pounds Per Day						
Mobile Sources	0.8	0.9	7.9	<0.1	1.5	0.4
Area Sources	2.8	<0.1	4.1	<0.1	<0.1	<0.1
Energy Sources	0.0	0.0	0.0	0.0	0.0	0.0
Total Project Emissions	3.6	0.9	12.0	<0.1	1.5	0.4
MDAQMD Thresholds	137.0	137.0	548.0	137.0	82.0	65.0
Significant?	No	No	No	No	No	No
Tons Per Year						
Mobile Sources	0.1	0.2	1.2	<0.1	0.3	0.1
Area Sources	0.5	<0.1	0.4	<0.1	<0.1	<0.1
Energy Sources	0.0	0.0	0.0	0.0	0.0	0.0
Total Project Emissions	0.6	0.2	1.6	<0.1	0.3	0.1
MDAQMD Thresholds	25	25	100	25	15	12
Significant?	No	No	No	No	No	No

Source: Calculated by LSA (September 2025) with CalEEMod (Version 2022.1.1.28).

b) Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Less Than Significant Impact

Since the MDAB is currently in federal nonattainment for ozone and $PM_{2.5}$ and state nonattainment for ozone and PM_{10}, related projects may exceed an air quality standard or contribute to an existing or projected air quality exceedance. However, as discussed above, the mass daily and annual construction and operational emissions generated by the project would not exceed any of the MDAQMD's significance thresholds. Therefore, the project would not result in a cumulatively considerable net increase in emissions of the pollutants for which the MDAB is in nonattainment. Thus, cumulative air quality impacts associated with the project would be less than significant.

c) Would the project expose sensitive receptors to substantial pollutant concentrations?

Less than Significant Impact

Construction of the project would generate short-term and intermittent emissions. Following the MDAQMD's CEQA Guidelines (MDAQMD, 2020a), residences, schools, daycare centers, playgrounds, and medical facilities are considered sensitive land uses.

The following project types proposed for sites within the specified distance to an existing or planned (zoned) sensitive receptor land use must be evaluated (MDAQMD, 2020a):

- Any industrial project within 1,000 feet.
- A distribution center (40 or more trucks per day) within 1,000 feet.

- A major transportation project (50,000 or more vehicles per day) within 1,000 feet.
- A dry cleaner using perchloroethylene within 500 feet.
- A gasoline dispensing facility within 300 feet.

The proposed project entails the development of self-storage units; it does not meet the criteria listed above. Thus, the impacts on sensitive receptors would be less than significant.

d) Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Less than Significant Impact

A project-related significant adverse effect could occur if the construction or operation of the proposed project would result in the generation of odors that would be perceptible in adjacent sensitive areas. Potential odor sources associated with the Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction associated with the proposed project's long-term operational uses. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the construction and are thus considered less than significant. Therefore, the project would not create substantial objectionable odors and this impact would be less than significant.

4.4 Biological Resources

Would the project:	Potentially Significant Impact	Less than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?		**X**		
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or US Fish and Wildlife Service?		**X**		
c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				**X**
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native nursery sites?			**X**	
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?		**X**		
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				**X**

4.4.1 Methodology

This section is based on the results of a desktop analysis using USGS topographic maps, current aerial imagery, as well as the following sources:

- Biological Resources Assessment for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California *(APN 0597-111-67-0000)* prepared by LSA, October 24, 2025 (LSA, 2025b). See **Appendix C1**.

- Western Joshua Tree Census for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California (LSA Project No. 20231230), September 26, 20525 (LSA, 2025c). See **Appendix C2**.

- Rare Plant Survey for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California (LSA Project No. 20231230), September 26, 2025 (LSA, 2025d). See **Appendix C3**.

UltraSystems biologists researched readily available information, including relevant literature, databases, agency websites, previously completed reports and management plans, in-house records, and public domain GIS data, maps, and aerial imagery to identify the following: 1) special-status plant and wildlife species, jurisdictional waters, critical habitats, and wildlife corridors that may occur in and near the project site; and 2) local or regional plans, policies, and regulations that may apply to the project. Sources accessed by UltraSystems for analysis of potential impacts within this Initial Study include:

- California Natural Diversity Database (CNDDB, 2025).

- California Native Plant Society's (CNPS) Manual of California Vegetation (MCV) Online Edition (CNPS, 2025).

- USFWS Critical Habitat Portal (USFWS, 2025a).

- CDFW BIOS Habitat Connectivity Viewer (CDFW, 2025a).

- Other sources as cited in the text.

A Biological Study Area (BSA) was defined for the project to include the project site and a 500-foot buffer zone around its perimeter (see **Figure 4.4-1**). UltraSystems biologists did not visit the project site, but the BSA was studied during UltraSystems' desktop analysis to augment the field surveys conducted by LSA.

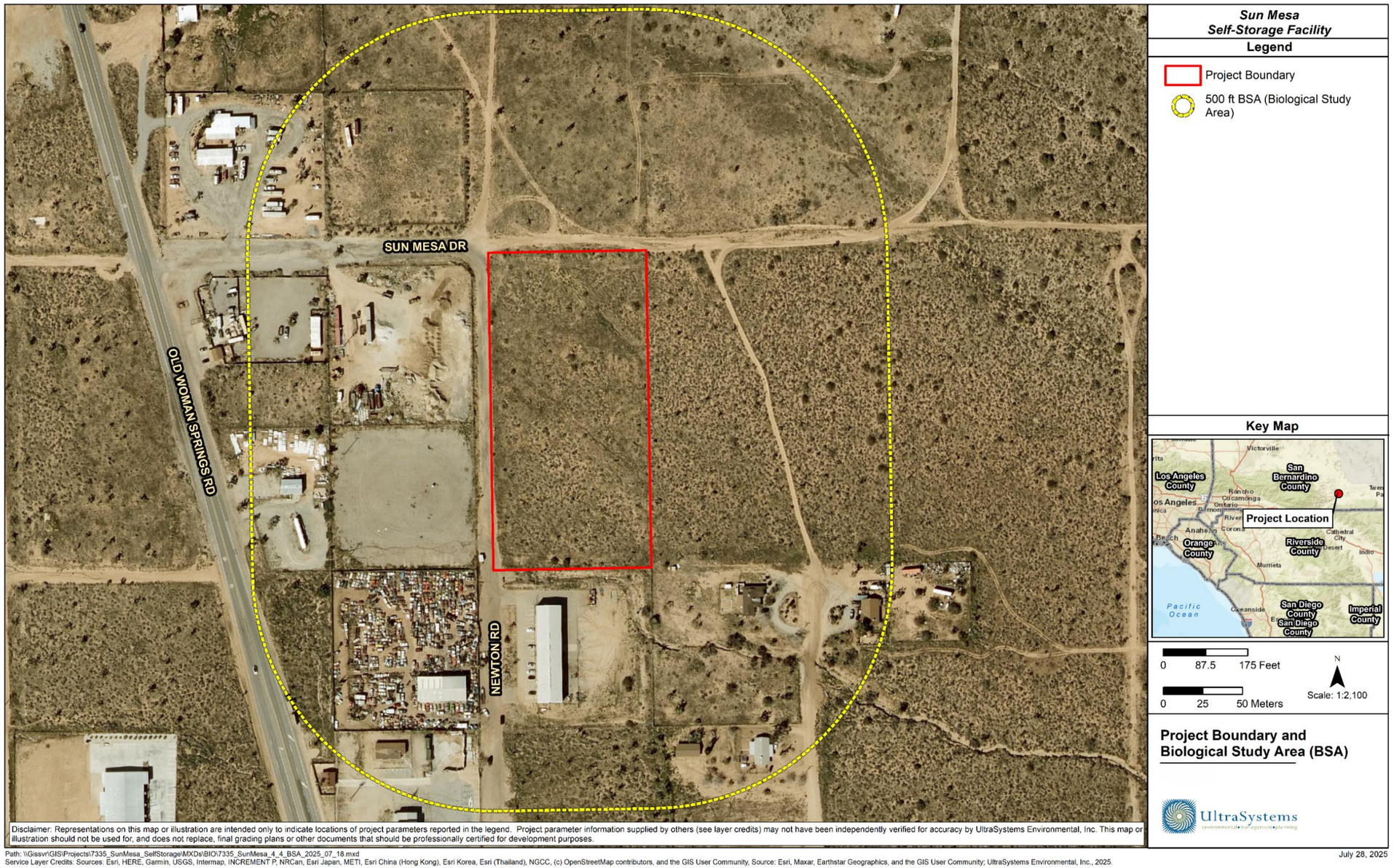
Plant and wildlife species protected by the federal Endangered Species Act (ESA) or by the California Endangered Species Act (CESA) are referred to as *listed species* in this section. Plant and wildlife species not protected under ESA or CESA but still protected by federal agencies, state agencies, local or regional plans and/or nonprofit resource organizations, such as the California Native Plant Society (CNPS), are referred to as *sensitive species* in this section. The term *special-status species* is used when collectively referring to both listed and sensitive species.

4.4.1.1 Environmental Setting

The topography of the biological study area (BSA) and project site are relatively flat, with slight inclines on the north to south plane. The north end of the BSA reaches approximately 3,726 feet above mean sea level (amsl), whereas the southern portion of the BSA reaches approximately 3,710 feet amsl. The project is situated on the southeast corner of Newton Lane and Sun Mesa Drive; it is surrounded by industrial, commercial, and mostly vacant residential areas.

The project site is in the *Yucca Valley North, California* 7.5-minute series topographic quadrangle map in Section 13 of Township 1 North, Range 5 East, San Bernardino Baseline and Meridian (USGS, 2025).

Figure 4.4–1
PROJECT LOCATION AND BIOLOGICAL STUDY AREA (BSA)



The project site and BSA are in the Mojave Basin and Range Major Land Resource Area (MLRA) of the Western Range and Irrigated Region of the U.S. The Mojave Basin and Rangle MLRA is the transition from the hot Sonoran Desert in the south to the cool Great Basin Desert in the north. This area contains both high and low deserts, often within short distances of one another (USDA NRCS, 2022). A strong orographic effect limits the amount of coastal humidity and precipitation entering the Mojave Basin. Precipitation occurs primarily in winter and early spring. Drought years are common, and high amounts of annual precipitation often occur in single storm events. Summers are hot and dry with irregular and sparse, high-intensity, convective thunderstorms (USDA NRCS, 2022).

4.4.1.2 Discussion of Impacts

a) Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Less Than Significant with Mitigation Incorporated

Special Status Plants

LSA identified eight special-status plant species with potential to occur within the project vicinity. One species, triple-ribbed milk-vetch (*Astragalus tricarinatus),* is federally protected, whereas another species, western Joshua tree (*Yucca brevifolia),* is state candidate threatened, and the remaining species are sensitive (not federally or state-listed). LSA's analysis is based on CNDDB data from the *Yucca Valley North, Yucca Valley South, Joshua Tree North, Joshua Tree South, Rimrock, Goat Mountain,* and *Landers, California* quadrangles (LSA, 2025b).

Of these eight species, western Joshua tree (*Yucca brevifolia)* was present onsite in November 2023, and the other seven species were not observed in a focused rare plant survey conducted in May 2024. The Joshua tree census conducted by LSA biologists on November 1, 2023, determined 98 Joshua trees were : 87 Joshua trees were on the project site and there were 11 in the buffer area.(**Figure 4.4-2**; LSA, 2023). LSA biologists surveyed for the presence/absence of San Bernardino milk-vetch (*Astragalus bernardinus*), triple-ribbed milk-vetch (*Astragalus tricarinatus*), Pinyon rock cress (*Boechera dispar*), Pioneertown linanthus (*Linanthus bernardinus*), little San Bernardino mountains linanthus (*Linanthus maculatus* ssp*. maculatus*), Robinson's monardella (*Monardella robisonii*), Latimer's woodland gilia (*Saltugilia latimeri*), and any other special-status species detectable during the time of the surveys (LSA, 2025b). The only special-status species LSA found at the time of either survey (November 2023 or May 2024) is western Joshua tree; no additional special-status species (i.e., species beyond the eight listed) were observed onsite (LSA, 2025b; LSA, 2025c).

Five special-status species were determined to occur within two miles of the BSA by UltraSystems (**Figure 4.4-3**). These five species (i.e., little San Bernardino mountains, Pioneertown linanthus, Robinson's monardella, San Bernardino milk-vetch, and Pinyon rock cress) were considered within LSA's analysis.

It is important to note that the 2024 focused rare plant surveys followed an above average rainfall season (UltraSystems 2025a, 2025c). Therefore, the focused rare plant survey results may be limited by lack of data concerning certain plant taxa, especially for annual or biennial plant species. Although surveys were conducted during the general peak bloom period for the species of interest, the lack of precipitation preceding the 2025 survey season precludes an optimal floristic inventory.

Western Joshua Tree

The western Joshua tree is a State Candidate Threatened species native to California. Tree size and growth form vary with site and climate conditions. In California, the western Joshua tree is an evergreen tree that is present in discontinuous populations within the western Mojave Desert and extends north and east into the southwestern Great Basin. The western Joshua tree typically grows between heights of 16.4 to 66 feet, rarely exceeding 33 feet. Western Joshua trees typically have one main stout stem or trunk that measures 3.3 to 10 feet in diameter and have an expanded base (CDFW, 2025b).

Western Joshua trees are typically found within the Mojave Desert and Great Basin ecoregions on landforms such as alluvial fans, bajadas, flats, ridges, mesas, and gentle to moderate slopes. They benefit from soils with bimodal textures with coarse sand and fine silts that are able to retain soil moisture. Additionally, western Joshua trees are sensitive to temperature and precipitation, which are factors that can determine whether or not the tree or juvenile sprout will be able to survive in a landscape. Important climate factors for these trees are annual heat/moisture index, winter minimum temperature, and mean annual precipitation (CDFW, 2025b)

LSA conducted a Joshua Tree Census on November 1, 2023 (see **Appendix C2**, *Western Joshua Tree Census for the Sun Mesa (Billings) Mini Storage Project*; LSA 2023). The study area for the census includes the 4.34-acre project site plus a 49-foot buffer area around the site (see **Figure 4.4-2**). Each living or dead Joshua tree in the study area was assigned a unique identification number, tagged, photographed, and mapped using Global Positioning System (GPS) technology (datum WGS 84). Each Joshua tree stem or trunk arising from the ground was considered an individual tree. For each Joshua tree, the arborist recorded size class, maturity, and flowering/fruiting status.

The census recorded 98 Joshua trees onsite; 87 Joshua trees on the project site and 11 in the buffer area. Construction of the project would result in the removal of all 98 Joshua trees on the project site and in the buffer area. Impacts to Joshua tree would be potentially significant.

Mitigation Measures

Unless otherwise noted, the project applicant does not plan to transplant or retain any of the 98 Joshua trees on the project site and in the buffer area. All impacts to this parcel will be permanent, as no remaining undeveloped land is proposed by this project. The implementation of the following measures would reduce impacts to less than significant levels.

BIO-1: Biological Monitor

(a) A biological monitor will be onsite to monitor activities that result in the clearing or grading of areas known to contain sensitive biological resources, such as western Joshua tree habitat, as well as ground-disturbing activities that impacts do not exceed the limits of construction and minimize the likelihood of inadvertent impacts to special-status plant and wildlife species.

(b) The biological monitor will ensure that all biological mitigation measures, best management practices (BMPs), avoidance and protection measures described in the relevant project permits and reports are in place and are adhered to. Monitoring will cease when the sensitive habitats and jurisdictional areas have been cleared or impacted. The biological monitor will take photographs

throughout the construction process. Observations of special-status species will be recorded in monitoring logs, mapped, and special-status species records will be submitted to the California Natural Diversity Database (CNDDB) within five working days of the sightings, and CDFW will be provided with copies of the CNDDB forms and survey maps. Monitoring logs will be completed for each day of monitoring.

(c) The biological monitor will have the authority to halt all construction activities and all non-emergency actions if listed species are identified on the project site and will be directly impacted. The monitor will notify the appropriate resource agency and consult if needed. If needed, and if authorized by the resource agencies, the monitoring biologist will relocate the individual outside of the work area where it will not be harmed. Work can continue at the location if CDFW and/or the USFWS determine that the activity will not result in impacts to the species.

(d) If sensitive biological resources are detected in an area to be impacted, then appropriate measures will be implemented by the biological monitor to avoid impacts (i.e., flag and avoid, erect orange snow fencing, biological monitor present during work, etc.). However, if avoidance is not possible and the sensitive biological resources will be directly impacted by project activities, the biological monitor will mark and/or stake the site(s) and map the individuals on an aerial map and with a GPS unit. The biologist will then contact the appropriate resource agencies to develop additional mitigation measures prior to commencing project activities.

(e) The construction crew will inspect excavated areas daily to detect the presence of trapped wildlife.

BIO-2: Project Limits and Designated Areas

To avoid impacts to sensitive biological resources, the following measures will be implemented by the project proponent, contractors, and biological monitor prior to project staging, and commencement of any ground-disturbing activities or vegetation removal.

a) Project boundary would be set at the minimum size to accomplish necessary work, resulting in minimal impacts to sensitive biological resources and jurisdictional areas.

b) Specifications for the project boundary, limits of construction, project-related parking, storage areas, laydown sites, and equipment storage areas will be mapped and clearly marked in the field with temporary fencing, signs, stakes, flags, rope, cord, or other appropriate markers. All markers will be maintained until the completion of activities in that area.

c) To minimize the amount of disturbance, the construction/laydown areas, parking areas, staging areas, storage areas, spoil areas, and equipment access areas will be restricted to designated areas. To the extent possible, designated

areas will comprise existing disturbed areas (parking lots, access roads, graded areas, etc.).

d) Project-related work limits will be defined, and work crews will be restricted to designated work areas. Disturbance beyond the actual construction zone is prohibited without site-specific surveys.

e) Project related vehicle traffic will be restricted to established roads, staging areas, and parking areas. Travel outside construction zones will be prohibited. If sensitive biological resources are detected in an area to be impacted, then appropriate measures will be implemented to avoid impacts (i.e., flag and avoid, erect orange snow fencing, biological monitor present during work, etc.). However, if avoidance is not possible and the sensitive biological resources will be directly impacted by project activities, the biological monitor will mark and/or stake the site(s) and map the individuals on an aerial map and with a GPS unit. The biologist will then contact the appropriate resources agencies to develop additional avoidance, minimization and/or mitigation measures prior to commencing project activities.

BIO-3: Western Joshua Tree Conservation Act

Prior to the initiation of Joshua trees encroachment, trimming, pruning, or any activity that may result in take of Joshua trees (including removal of live and dead Joshua trees), the project proponent should obtain a California Endangered Species Act (CESA) Incidental Take Permits (ITP) under the western Joshua Tree Conservation Act (WJTCA) of Fish and Game Code (§§ 1927.3 and 1927.8). California Fish and Game Code § 86 defines "take" as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill". Mitigation will occur per the stem count per the WJTCA census in lieu fee, or as required by the ITP and WJTCA.

BIO-4: California Desert Native Plants Act

a) Because species of the family Agavaceae (e.g., western Joshua Tree), which have been observed throughout the project site, are covered under § 80073(b) of the California Desert Native Plants Act (CDNPA), any impacts will require a permit issued by the commissioner of the sheriff in San Bernardino County pursuant to Chapter 3 § 80073. Prior to commencement of construction activities, including but not limited to mobilization, fencing, staging, vegetation trimming or removal, or ground-disturbing activities, the project proponent will acquire a permit pursuant to Chapter 3 § 80101 and § 80073 of the California Desert Native Plants Act if any of the following species are observed on the project site:

   a. All species of the family Agavaceae (century plants, nolinas, yuccas)

   b. All species of the family Cactaceae (cacti), except for the plants listed in subdivisions (b) and (c) of Section 80072 which may be harvested under a permit obtained pursuant to that section.

   c. All species of the family Fouquieriaceae (ocotillo, candlewood)

d. All species of the genus Prosopis (mesquites)

e. All species of the genus Cercidium (palos verdes)

f. *Acacia greggii* (catclaw)

g. *Atriplex hymenelytra* (desert-holly)

h. *Dalea spinosa* (smoke tree)

i. *Olneya tesota* (desert ironwood), including both dead and live desert ironwood.

Figure 4.4-2
JOSHUA TREE CENSUS

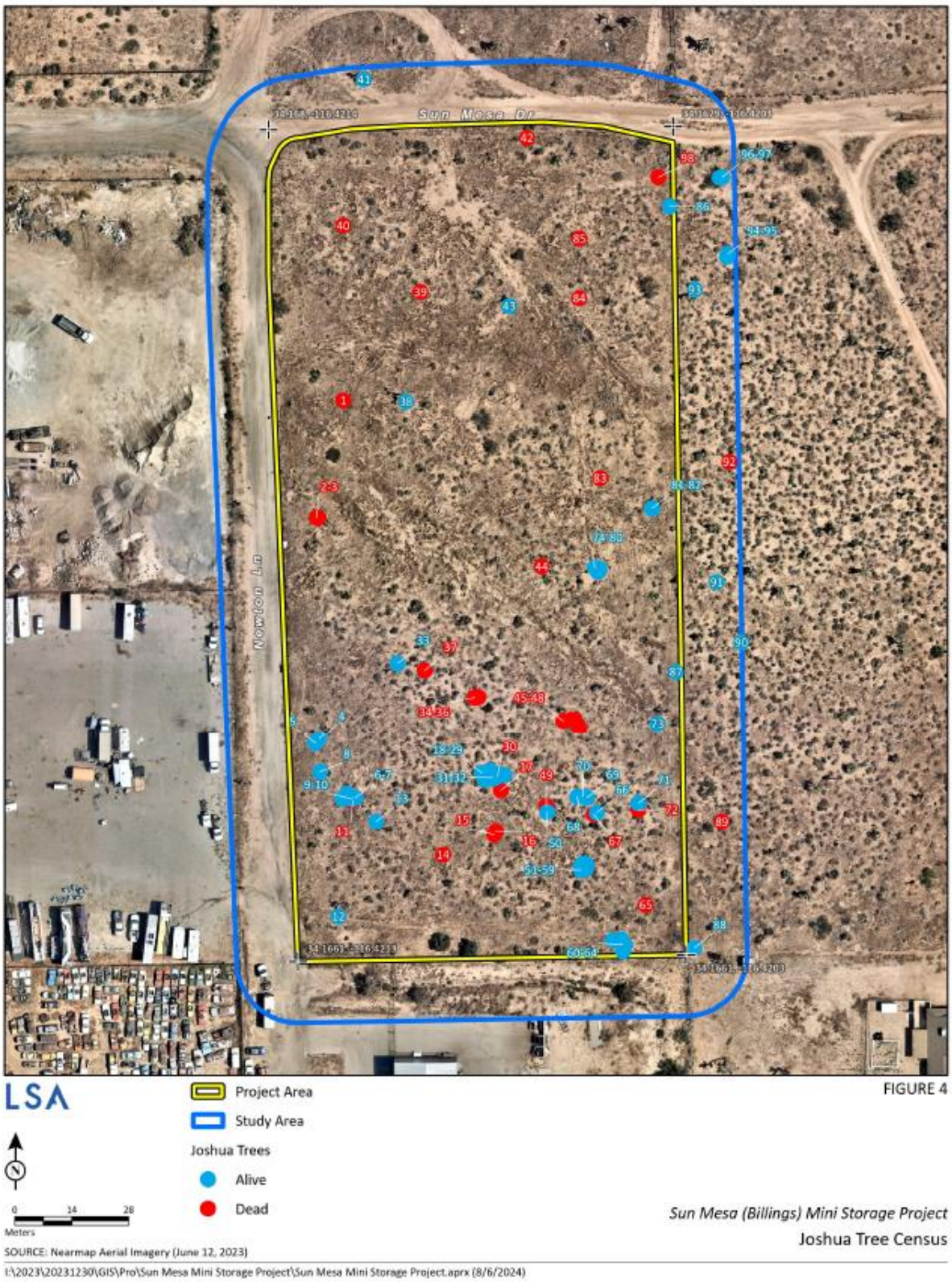
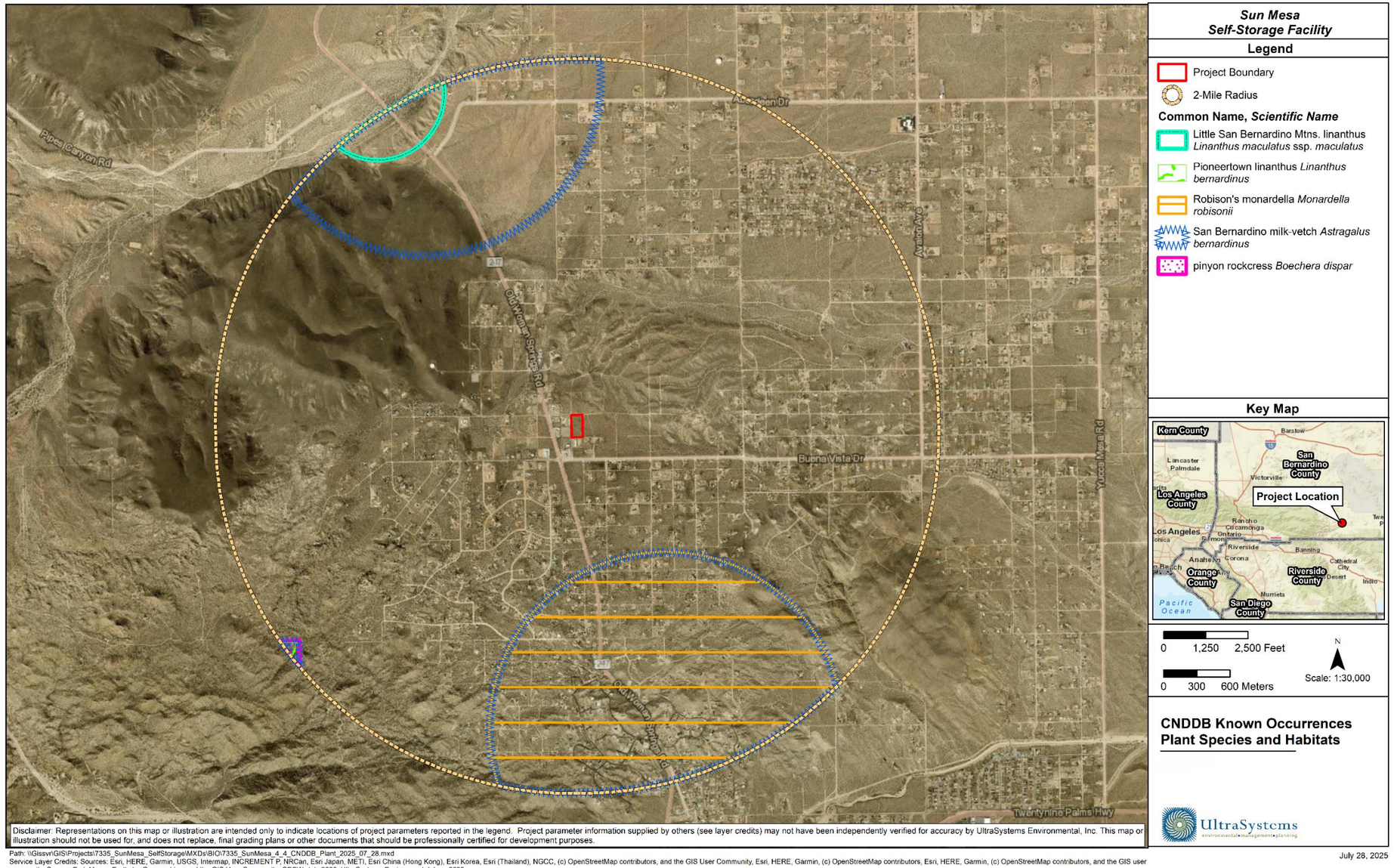


Figure 4.4-3
CNDDB KNOWN OCCURRENCES: PLANT SPECIES AND HABITATS



Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others (see layer credits) may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

Path: \\Glssvr\GIS\Projects\7335_SunMesa_SelfStorage\MXDs\BIO\7335_SunMesa_4_4_CNDDB_Plant_2025_07_28.mxd
Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; CDFW, July 2025; UltraSystems Environmental, Inc., 2025.

Special-Status Wildlife

LSA identified five special-status wildlife species with potential to occur within the vicinity of the project. Of these species, one is federal and state threatened (Desert tortoise, *Gopherus agassizii),* and one is state candidate threatened/endangered (burrowing owl, *Athene cunicularia*). The remaining three species are special-status and include the loggerhead shrike (*Lanius ludovicianus),* San Joaquin Valley population of Le Conte's thrasher *(Toxostoma lecontei),* and American badger *(Taxidea taxus).* LSA biologists confirmed presence of the loggerhead shrike during the May 2024 field survey and anticipate the remaining species are either not expected to occur or have low potential to occur (LSA, 2025b).

LSA biologists observed California quail *(Callipepla californica),* mourning dove *(Zenaida macroura),* turkey vulture *(Cathartes aura),* loggerhead shrike*,* common raven *(Corvus corax),* house sparrow *(Passer domesticus),* house finch *(Haemorhous mexicanus),* San Diegan tiger whiptail *(Aspidoscelis tigris stejnegeri),* and desert cottontail *(Sylvilagus audubonii)* during the May 2024 survey. LSA adds that the abundant Joshua trees and yucca within the project site may significantly contribute to nesting for native wildlife species, especially birds (LSA, 2025b).

UltraSystems identified two wildlife species within a two-mile radius of the project site (**Figure 4.4- 5**). One of these species, desert tortoise, was considered in LSA's investigations. However, the pallid San Diego pocket mouse (*Chaetodipus fallax pallidus*) was not mentioned in LSA's Biological Resource Assessment LSA, 2025b). UltraSystems biologists determined the pallid San Diego pocket mouse has a moderate potential to occur within the BSA. The pallid San Diego pocket mouse is not a federally or state-listed species, although is ranked by CDFW as either vulnerable (S3) and apparently secure ((S4; combined State rank is S3S4) state-wide (USFWS, 2025b; CDFW, 2025c)).

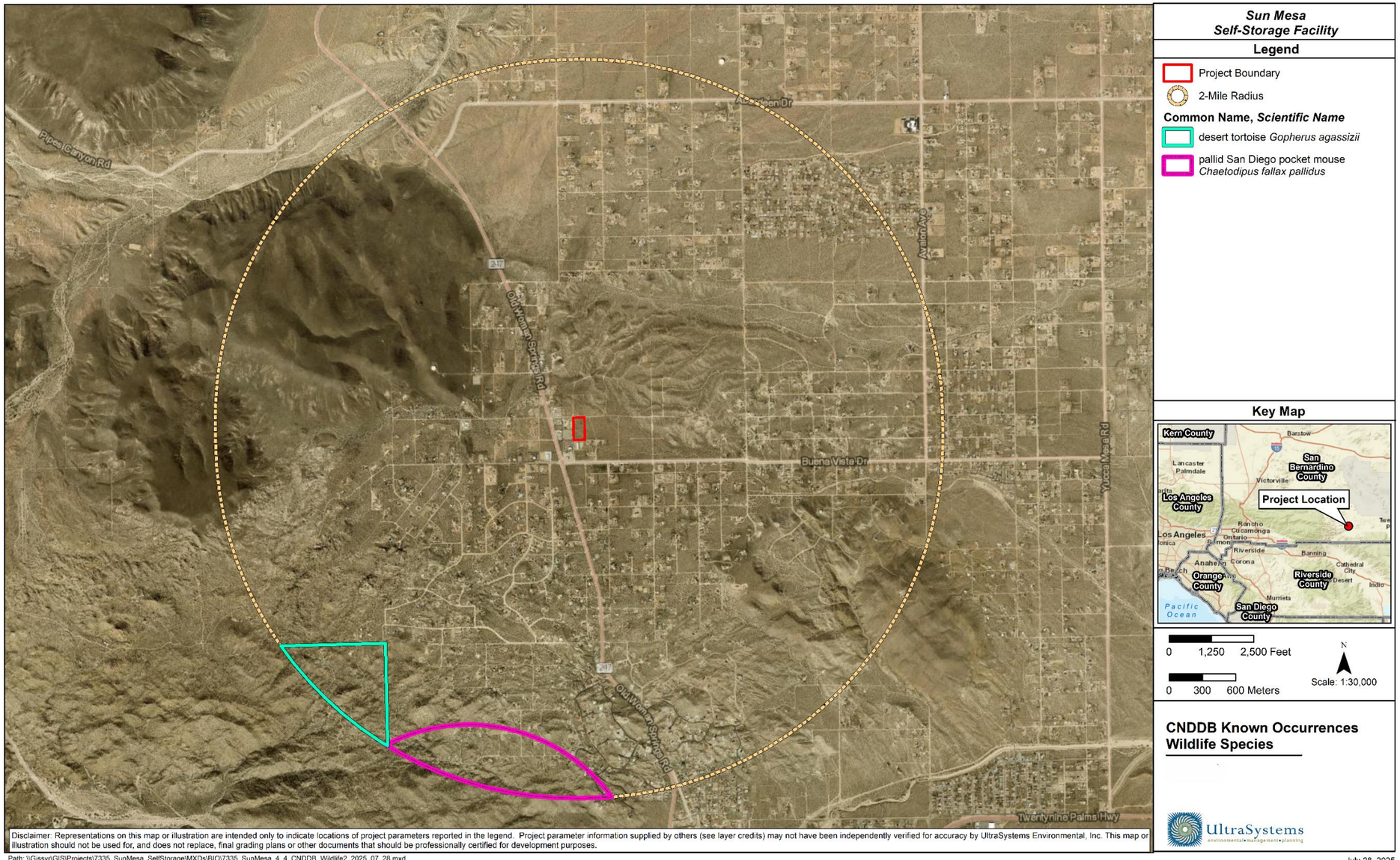
Desert tortoise (Gopherus agassizii)

The desert tortoise occurs in the Mojave, Sonoran, and Colorado deserts in the southwestern United States and the Sonora and northern Sinaloa in Mexico. The designated Mojave population of the desert tortoise is listed as federally and State Threatened and includes those animals living north and west of the Colorado River in the Mojave Desert of California, Nevada, Arizona, and southwestern Utah, and in the Colorado Desert in California (USFWS, 1994 and USFWS, 2011).

Desert tortoises typically occur in desert scrub, desert wash, and Joshua tree habitats below sea level to 7220 feet. Tortoises typically excavate burrows under bushes, and overhanging soil or rock formations (CDFW, 2000). Soils must be friable (easily crumbled) enough for digging burrows, but firm enough so that burrows do not collapse. During the winter, tortoises will opportunistically use burrows of various lengths, deep caves, rock and caliche crevices, or overhangs for cover (USFWS, 2011).

No observations of desert tortoise were made by LSA in the November 2023 or May 2024 surveys. However, desert tortoise is a mobile species, and direct impacts may result from project activities, including (but not limited to) staging, vegetation removal, and grading, Desert tortoises may also seek shelter in the shade of parked construction vehicles and equipment. For these reasons, mitigation is recommended (**BIO-1**, *Biological Monitor*, **BIO-5**, *Worker Environmental Awareness Program*, **BIO-7**, *Pre-Construction Desert Tortoise Survey*).

Figure 4.4-5
CNDDB KNOWN OCCURRENCES: WILDLIFE SPECIES



Burrowing Owl (Athene cunicularia)

The burrowing owl (BUOW) is a small, crepuscular (active at dusk and dawn), ground-inhabiting owl that is found largely throughout the United States (Wilkerson, and Siegel, 2011). Its overall length is about seven to ten inches. Its coloring is sandy brown on its head, back and upper wings, with noticeable white spotting on its back and upper wings (Sibley, 2000). Adults are barred on their breast, while juveniles are buffy with a white collar. The brown and white mottling helps to provide camouflage in their dry habitat. BUOWs have yellow eyes, long legs, a short tail, with relatively long, narrow wings and a flat, round head (Sibley, 2000). Their long legs help them to see over grasses and short vegetation and aid them in catching their prey.

Burrowing owls are the only North American owl species that lives underground; typical BUOW habitat is open, dry, on level to mildly sloping topography with short and sparse vegetation structure and available burrows for nesting and roosting (Gallagher, 1997; Haug et al., 1993; Shuford et al., 2008; Center for Biological Diversity et al., 2024). BUOWs spend most of their time on the ground or on low perch sites such as fence posts and dirt mounds. Typical habitat includes prairies, grasslands, shrub steppe, deserts, and some agricultural areas (Haug et al., 1993). Nesting habitat also includes rolling hills, and occasionally on steep slopes or cliffs (Center for Biological Diversity, 2024). BUOW nesting habitat also occurs in urban landscaped areas and includes ruderal grassy fields, roadsides, airport infields, rural parks, college campuses, golf courses, athletic fields, and other similar areas (Center for Biological Diversity et al., 2024). In California, BUOW nesting habitat also includes fallow agricultural fields, the edges of cultivated fields (e.g., along roads or agricultural canals; Rosenberg and Haley, 2004). They are the only small owls likely to be seen perched in the open daylight (Sibley, 2000).

Though no sign, direct observation, or suitable burrow was observed in the November 2023 or May 2024 surveys, LSA determined burrowing owl are known to commonly occur within the project vicinity. Therefore, LSA recommended a Pre-Construction Presence/Absence Survey for burrowing owl (LSA, 2025b). UltraSystems biologists agree in recommending burrowing owl surveys presented under mitigation measures (**BIO-10,** *Pre-Construction Burrowing Owl Surveys*).

Loggerhead shrike

The loggerhead shrike is a large, predatory songbird. They are known to inhabit and forage over open country within areas of short vegetation and well-spaced shrubs or low trees, particularly those with spines or thorns. They frequent agricultural fields, pastures with fence rows, old orchards, savannas, prairies mowed roadsides, cemeteries, golf courses, riparian areas, open woodland, agricultural fields, desert washes, desert scrub, grassland, broken chaparral and beach with scattered shrubs. They prefer tall shrubs or trees (also fences or power lines) for hunting perches and territorial advertisement; open areas of short grasses, forbs, or bare ground for hunting; and large shrubs or trees for nest placement. Human disturbance does not seem to be a major concern to this species. The shrike is often seen next to well-traveled roads and near houses built in suitable habitat. In California, loggerhead shrikes breed mainly in shrublands or open woodlands with a fair amount of grass cover and areas of bare ground. They often nest in isolated trees or large shrubs.

Le Conte's thrasher

LeConte's thrasher is a passerine in the family Mimidae. This species occurs in the deserts of southeastern California, southern Nevada, extreme southwestern Utah south into west-central and southwestern Arizona, northeastern Baja California, and northwestern Sonora, with recent range

extensions into the Carrizo Plain and Cuyama Valley, much of the San Joaquin Valley, and the Panoche Hills. Occupied habitats are generally moderately to sparsely vegetated by saltbush scrub with bare ground or patches of sparse grasses. Habitat loss and degradation, particularly conversion of habitat to agriculture, are the major threats to populations. They are considered a Species of Special Concern by the CDFW and a Bird of Conservation Concern by the USFWS. Their nests are protected by the MBTA and Fish and Game codes pertaining to native nesting avian species.

American badger

The California Department of Fish and Wildlife (CDFW) considers American badger (*Taxidea taxus*) to be a Species of Special Concern (SSC). The American badger is found in a dry, open stages of a variety of habitats throughout California including woodlands, shrublands, and grasslands. The American badger is a fossorial carnivore and feeds primarily on small fossorial mammals including mice, chipmunks, rats, and particularly ground squirrels and pocket gophers. This species is fossorial and digs its dens in loose, friable soil. American badger is active year-round and has been observed to be diurnal at times or nocturnal.

Breeding and Nesting Birds (Migratory Bird Treaty Act)

The BSA supports trees, shrubs, and other vegetation (including landscaping/ornamental vegetation) that could potentially provide foraging, nesting, and cover habitats to support a diverse assortment of bird species (yearround residents, seasonal residents, and migrants). LSA biologists observed loggerhead shrike during the May 2024 field visits (LSA, 2025b). A majority of the birds observed during the field surveys and those birds that could potentially breed and nest within the project site and BSA are protected by the MBTA, and by Fish and Game Code § 3503, § 3503.5, and § 3513.

Activities which are most likely to result in take of migratory birds during the breeding bird season and when eggs or young are likely to be present include, but are not limited to, clearing or grubbing of bird nesting habitat; excavations and ground movement; or vegetation trimming or clearing. The project has the potential to directly take individual breeding birds, their nests, young, or eggs; therefore, avoidance and minimization are required. Indirect impacts to breeding birds could occur from increased noise, vibration, lighting and dust during construction, which could adversely affect the breeding behavior of some birds and lead to the loss (take) of eggs and chicks, or nest abandonment.

It is anticipated that the project may cause direct and indirect impacts to breeding birds, their nests, young, or eggs. Implementing the recommended avoidance and minimization **BIO-1** through **BIO-4** and **BIO-5** through **BIO-13**, described below, will minimize or avoid potential impacts to breeding birds, their nests, young, or eggs to less than significant levels. Impacts would then be less than significant.

Mitigation Measures

It is possible that impacts, such as unauthorized take or burrow collapse, occur to special-status species due to project activity. With the implementation of **BIO-1** through **BIO-4**, and the following mitigation measures (**BIO-5** through **BIO-12**), impacts are anticipated to be less than significant.

BIO-5: Worker Environmental Awareness Program

Worker Environmental Awareness Program (WEAP) for construction personnel shall be conducted and documented prior to onsite disturbances. The training shall include a discussion of the sensitive biological resources within the project site and the potential presence of special-status species. The WEAP shall also include a discussion of special-status species' habitats, protection measures to ensure species are not impacted by project activities, project boundaries, penalties for non-compliance, and biological conditions outlined in the project permits. All new employees shall be trained before they access the work site. New employees shall be trained and certified by the Construction Supervisor with the approval of the Project Biologist as approved by CDFW. Each trained individual shall be given a distinctive helmet sticker that will identify those who have received training, signed the training log, and demonstrated the required level of environmental awareness.

BIO-6: Construction Best Management Practices

Project work crews will use CASQA (or similar) stormwater BMPs as directed by the project's Storm Water Pollution Prevention Plan (SWPPP). These measures will be identified prior to construction and incorporated into construction operations. The project's Qualified SWPPP Practitioner shall ensure that construction activities will incorporate all applicable BMPs specified in the SWPPP to prevent erosion from water or wind, sedimentation of receiving waters, and introduction of other pollutants, including non-stormwater pollutants, into drainages crossed by or adjacent to the project site, accidental spills in the project site, including laydown yards and parking areas. BMPs will be maintained on a regular basis pursuant to the requirements of the SWPPP.

Bio-7: Pre-Construction Desert Tortoise Survey

Prior to the commencement of project activities, including but not limited to ground disturbance, pre-construction surveys following guidance in the U.S. Fish and Wildlife's (USFWS) 2018 *Preparing for Any Action That May Occur Within the Range of the Mojave Desert Tortoise* (*Gopherus agassizii;* "Guidelines") shall be conducted by an authorized biologist in possession of an active §.10(a)(1)(B) Incidental Take Permit from the USFWS. The Guidelines recommend the applicant contact USFWS prior to surveys. Qualified biologists shall conduct pre-construction surveys for desert tortoise no more than 48 hours prior to initiation of Project activities and after any pause in Project activities lasting 30 days or more. The qualified biologists shall follow USFWS's Desert Tortoise (Mojave Population) Field Manual (*Gopherus agassizii; "*Field Manual"). The qualified biologist shall record all signs of desert tortoise, such as scat, burrows, carcasses, courtship rings, drinking depressions, and live sightings, as described in the Field Manual. The qualified biologist shall provide a report with a map of the surveyed area (including transects, desert tortoises, and sign) and description of habitat conditions. Should positive survey results occur, the project applicant shall secure an incidental take permit under Section 10 of FESA and State incidental take permit under Section 2081 of the Fish and Game Code.

BIO-8: Pre-construction Wildlife Surveys

Prior to issuance of grading permits, a qualified biologist shall conduct pre-construction surveys within areas of suitable habitat for special-status terrestrial wildlife species identified as having moderate or greater potential to occur onsite. Pre-construction surveys shall be conducted three days before the commencement of construction activities. If construction activities onsite lapse for one week or more, approved work areas will be re-surveyed by the biologist for new occurrences of

the special-status wildlife species. Further consultation with wildlife agencies will be necessary if special-status species are observed onsite and prior to commencing construction activities.

BIO-9: General Wildlife Avoidance and Protection Measures

The project proponent shall implement the following general avoidance and protection measures to protect wildlife.

a) To minimize construction-related mortalities of nocturnally active wildlife species, it is recommended that all non-emergency work be conducted during daylight hours. All unnecessary lights shall be turned off at night to avoid attracting wildlife. Nighttime work (and use of artificial lighting) would not be permitted unless specifically authorized.

b) If any wildlife is encountered during project activities, it will be allowed to freely leave the area unharmed or the biological monitor shall capture the animal, if authorized, and relocate it outside of the construction work limits out of harm's way.

c) Listed wildlife species shall not be captured, handled, or relocated without specific written authorization from CDFW and/or USFWS.

d) Wildlife shall not be disturbed, captured, harassed, or handled, unless to relocate the animal out of imminent threat of injury or death. Animal nests, burrows and dens shall not be disturbed without prior survey and authorization from the biological monitor.

e) Active and inactive nests cannot be removed or disturbed.

f) Contractors, subcontractors, employees, and site visitors shall be prohibited from feeding or collecting wildlife.

g) To avoid the potential for mortality and harassment of wildlife, all non-security related firearms, weapons, and domestic dogs would be prohibited from the project site.

h) Contractors, subcontractors, employees, and site visitors shall inspect their vehicles and equipment for the presence of wildlife prior to moving their vehicles and equipment. The biological monitor shall be contacted if a special-status species is detected and is in danger of being harmed.

i) All steep-walled pitfalls (trenches, holes, bores, and other excavations) greater than two feet deep used during the project would be completely covered at all times except when being actively used, to prevent wildlife entrapment (i.e. reptiles and small mammals). If trenches cannot be covered, escape ramps (maximum slope of 2:1) shall be provided to allow trapped animals to escape. Exclusion fencing shall be installed around the trench or excavation. Trenches shall be inspected and wildlife removed immediately before backfilling.

j) All onsite project workers shall look under their vehicles and equipment before movement. If wildlife is observed, no vehicles or equipment shall be moved until the animal has left the area voluntarily or can be legally relocated.

k) Equipment maintenance, lighting, and staging shall occur only in designated areas, and shall not block or impede wildlife movement.

BIO-10: Pre-Construction Burrowing Owl Surveys

A qualified biologist shall conduct a pre-construction BUOW survey in accordance with the *Staff Report on Burrowing Owl Mitigation* (CDFW, 2012) or current CDFW guidance/protocol if changes to the aforementioned 2012 guidance have occurred. A pre-construction BUOW survey (Take Avoidance Survey) shall be conducted no more than 14 days prior to any site disturbance (grubbing, grading, and construction) and again 24 hours prior to ground disturbing activities.

Although BUOW was not detected on site during the reconnaissance-level surveys, the BSA contains suitable habitat to potentially support BUOW. The qualified biologist shall identify, record, and map with a global positioning system (GPS) unit BUOWs and their sign. Detailed notes and wildlife species encountered during the surveys shall be recorded in field notes.

If an occupied burrow is found (as indicated by the observation of a burrowing owl or the presence of burrowing owl sign), a 250-foot buffer around the burrow shall be staked and flagged and no construction activities will be allowed within the buffer area during the breeding season (February 1 through August 31). The qualified biologist will contact CDFW to assist in the preparation of an Incidental Take Permit (ITP), and development of avoidance, minimization, and mitigation measures, prior to commencing project activities. A relocation program may be necessary and shall be approved by CDFW prior to commencing project activities.

If no BUOWs or signs of BUOWs are observed during the preconstruction surveys and concurrence is received from CDFW, project activities may begin, and no further mitigation shall be required.

BIO-11: Pre-Construction Breeding Bird Survey

If vegetation removal is scheduled within the nesting season, a qualified biologist shall conduct a pre-construction nesting bird survey to maintain compliance with the Migratory Bird Treaty Act (MBTA) and the California Fish and Game Code (§§ 3503 and 3503.5), which prohibit take of nesting birds and nests of migratory and non-game bird species. Nesting season is generally considered to be:

- January 1-July 30 for raptors.
- February 1-September 15 for non-raptors.

a) A qualified biologist will conduct pre-construction surveys no more than five days prior to when project activities (e.g., mobilization, excavation, grading, vegetation removal) are underway. Should a lapse in project activity be greater than five days, a qualified biologist will conduct additional surveys to maintain compliance.

To maximize the detection of nesting birds, surveys must be conducted in work areas (e.g., staging, stockpiling, storage, equipment yards, access roads) during favorable weather conditions. A wide variety of shelters and resources are used by avian species; these include barren ground, grasses, forbs, shrubs, trees, rocky outcrops, and man-made structures (dependent on species and conditions). The qualified biologists will interpret physical signs for nesting structures (e.g., manipulation of materials like mud or grass) and direct signs of life (e.g., courtship behaviors, gathering, swooping, alarm calls, pellets).

b) If nests are encountered, a qualified biologist shall consider individual species tolerance, proximity to construction activity, noise impacts, line-of-sight barriers, and distance (horizontal and vertical) to determine if planned construction activities would impact nesting success. The rate and duration of construction activities shall also be considered should the modification of scheduled activities be required to maintain healthy nesting outcomes.

c) If the qualified biologist determines construction activities shall potentially adversely affect a nest, the biologist must immediately inform the construction manager to halt construction activities (i.e., establish a no-work zone) within a minimum exclusion buffer of 100 feet for songbird nests and 200-500 feet for raptor nests. This no-work zone lawfully avoids the "take" of nesting birds and the mortality of eggs and younglings. Construction activities within the no-work buffer may proceed after a qualified biologist determines the young have successfully fledged the nest and are no longer dependent upon the nest or parents.

d) If federal or state protected species are observed during surveys, USFWS and CDFW shall be consulted to determine the appropriate time for project activities to proceed and what specific measures will be taken to ensure protected species are not impacted.

BIO-12: Pre-Construction Desert Kit Fox and American Badger Surveys

Desert kit fox is a protected species under CCR Title 14, § 460. No more than 14 days prior to the beginning of ground disturbance and/or Project activities, a qualified biologist shall conduct pre-construction surveys to determine if potential desert kit fox burrows/dens are present in the project area. Pre-construction surveys should include transect surveys at a 20-meter transect distance to ensure 100 percent visual coverage of the project area. Surveys may be combined for similar fossorial mammals, such as American badger; combined, concurrent surveys for dissimilar taxa (e.g. plants or birds) shall be prohibited.

Use of wildlife camera monitoring to determine presence/absence and burrow/den use is strongly encouraged, in accordance with CDFW approved methods, including *Remote Camera Trap Installation and Servicing Protocol Citizen Wildlife Monitoring Project 2017 Field Season* (Moskowitz and Huyett, 2017) and *Camera-trapping for conservation: a guide to best-practices* (Oliver R. Wearn & Paul Glover-Kapfer, 2017).

The pre-construction survey reports will include: (1) the number, location, and status determination of potential desert kit fox and/or badger dens identified during the reporting period, (2) occupancy monitoring status, (3) species present, and (4) estimated number of individuals and associated behaviors observed. Desert kit fox

and badger images will additionally be stored on a cloud-based server and additional relevant data will be made available to CDFW upon request.

If the pre-construction surveys confirm occupied desert kit fox habitat, project activities shall be immediately halted, and the qualified biologist shall notify CDFW to develop avoidance, minimization, and mitigation measures within a Desert Wildlife Management Plan.

No disturbance of active dens shall take place when juvenile desert kit fox may be present and dependent on parental care. Sick or injured animals will be reported to CDFW within 24 hours of discovery.

Level of Significance After Mitigation

With the implementation of mitigation measures **BIO-1** through **BIO-13,** implementation of the proposed project would result in less significant impact to special-status plant and wildlife species.

b) Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?

Less Than Significant with Mitigation Incorporated

Communities of Concern

LSA noted a disturbed Joshua tree woodland within the entirety of the project site. There are no additional communities of concern immediately near the project site (LSA, 2025b).

Critical Habitat

Literature review determined that no critical habitat, including USFWS-designated critical habitat, occupies the BSA (**Figure 4.4-6**; LSA, 2025b).

Land Cover

LSA classified all of the project site as a Joshua tree woodland, through remarks on disturbed portions making up roadways (LSA, 2025b). Joshua tree woodland *(Yucca brevifolia* Woodland Alliance) generally occurs on gentle alluvial fans, ridges, gentle to moderate slopes. Soils are typically coarse sands, very fine silts, gravel, or sandy loams, and many sites have bimodal soils with both coarse sands and fine silts (CNPS, 2025). LSA reported dominant vegetation to include western Joshua tree (*Yucca brevifolia*), Mojave yucca (*Yucca schidigera*), creosote bush (*Larrea tridentata*), Mediterranean grass (*Schismus* sp.), red brome (*Bromus rubens*), Sahara mustard (*Brassica tournefortii*), shortpod mustard (*Hirschfeldia incana*), and redstem stork's bill (*Erodium cicutarium*). LSA determined the Joshua tree woodland alliance to take up all of the project site; as such, no other plant communities were found present onsite (**Figure 4.4-7**; LSA, 2025b). The Joshua tree woodland alliance (33.170.00) is considered sensitive with a rarity ranking of apparently secure globally and vulnerable state-side (G4/S3; CDFW, 2025d).

The take of Joshua trees is expected during project development. As such, it is recommended that a Joshua Tree Incidental Take Permit be attained by the project proponent (**BIO-3,** *Western Joshua Tree Conservation Act*; described in **Section 4.4[a]**).

Figure 4.4–6
CRITICAL HABITAT

Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others (see layer credits) may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

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Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; USFWS Critical Habitats, February, 2025; UltraSystems Environmental, Inc., 2025.

Figure 4.4-7
LAND COVER

Mitigation Measures

It is anticipated that no Joshua trees would be transplanted or retained as part of project activities, therefore all impacts within the project boundary will be permanent. The implementation of **BIO-3** Western Joshua Tree Conservation Act will reduce impacts to less than significant levels.

Level of Significance After Mitigation

The project is not anticipated to have substantial adverse effect on riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by CDFW or USFWS. Impacts to individual western Joshua trees would be mitigated through the implementation of measures **BIO-1** through **BIO-4** as described in **Section 4.4(a)**; additionally, implementing the recommended avoidance and minimization mitigation measures **BIO-5** and **BIO-6** would minimize or avoid impacts to sensitive vegetation communities to less than significant.

c) Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

No Impact

The project site does not contain waters of the U.S. or State, including wetlands, and would not directly impact jurisdictional waters. Direct, indirect, or permanent impacts to jurisdictional waters are not anticipated as a result of the project.

d) Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less Than Significant Impact

LSA concluded that the BSA is not located within connectivity areas, natural landscape blocks, natural areas small, or potential riparian connections (LSA, 2025b).

Although the BSA does not overlap with such areas, the large amount of open space within and surrounding the BSA serves as a wildlife corridor because this area supports habitat and species that would be used as shelter, foraging, or prey by wildlife species moving to the east and north toward adjacent open space.

No direct impacts to wildlife movement corridors or native wildlife nursery sites are anticipated as a result of construction of the project. Project construction would result in temporary, indirect impacts to wildlife movement within areas located adjacent to the project work sites. Temporary indirect impacts would be considered less than significant because they would be temporary and would cease when construction is complete. During project operation, permanent indirect impacts may occur due to increased lighting and human activity; however, wildlife using the adjacent vacant lot would either be acclimated to low levels of human activities and lighting, or they would shift to the north or east, away from the project site. For this reason, permanent indirect impacts are anticipated to be less than significant.

Direct and indirect impacts to wildlife corridors would be either temporary in nature or would not significantly affect use of the area by wildlife for movement, shelter, foraging, or feeding due to the presence of large areas of open space north and east of the project site. Avoidance and minimization measures would not be required.

The project is not anticipated to have significant direct or indirect impacts on wildlife movement corridors or native wildlife nursery sites, and it is anticipated that the project will not adversely modify them. Impacts would be less than significant, and mitigation is not required.

e) Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less Than Significant with Mitigation Incorporated

California Desert Native Plants Act Section 80073

Chapter 3, § 80073 of the CDNPA regulates certain species of California desert native plants from unlawful harvesting. The CDNPA protects all species of yuccas (family Agavaceae), all species of cacti (family Cataceae), all species of candlewoods (family Fouquieriaceae), all species of the mesquites (genus *Prosopis*), all species of palos verdes (genus *Cercidium*), catclaw (*Acacia greggii*), desert-holly (*Atriplex hymenelytra*), smoke tree (*Dalea spinosa*), and desert ironwood (*Olneya tesota*). The CDNPA protects these species from harvest unless under a permit issued by the commissioner or the sheriff of the county in which the native plants are growing. There were six species protected by the CDNPA that were observed on the Project Site: silver cholla (*Cylindropuntia echinocarpa*), diamond cholla (*Cylindropuntia ramosissima*), hedgehog cactus (*Echinocereus engelmannii*), catclaw (*Senegalia gregii*), western Joshua tree (*Yucca brevifolia*), and Mojave yucca (*Yucca schidigera*). Western Joshua trees on the site were mapped as part of the Joshua tree census conducted for this project. The remaining five species will need to be surveyed on the Project Site as required for a permit under the CDNPA (LSA, 2025b).

Town of Yucca Valley Development Code Section 9.10.040

Yucca Valley Ordinance, western Joshua tree, Mojave yucca, Parry's nolina (*Nolina parryi*), California juniper (*Juniperus californica*), Our Lord's candle (*Yucca whipplei*), and Pinon pine (*Pinus monophylla*) require a tree removal permit under the Town of Yucca Valley's Development Code Section 9.10.040 (LSA, 2025b). Project activities are likely to impact western Joshua tree, Mojave yucca and California juniper. Section 9.10.040 states that the clearing or removal of native plants from canal, lateral ditch, survey line, building site, or road or other right of way by the landowner or his agent are not subjected to state regulations should they not be transported from the land or offered for sale. Otherwise, the Town shall issue permits for regulated desert native plants (i.e., Mojave yucca, Parry's nolina, California Juniper, our lord's candle, and pinon pine; Town of Yucca Valley, 2025a).

Mitigation Measures

With the implementation of **BIO-3,** *Western Joshua Tree Conservation Act***, BIO-4,** *California Desert Native Plants Act* (see **Section 4.4[a]**), and the following mitigation measures, impacts are anticipated to be less than significant.

BIO-13: Protective Fencing of No Work Areas

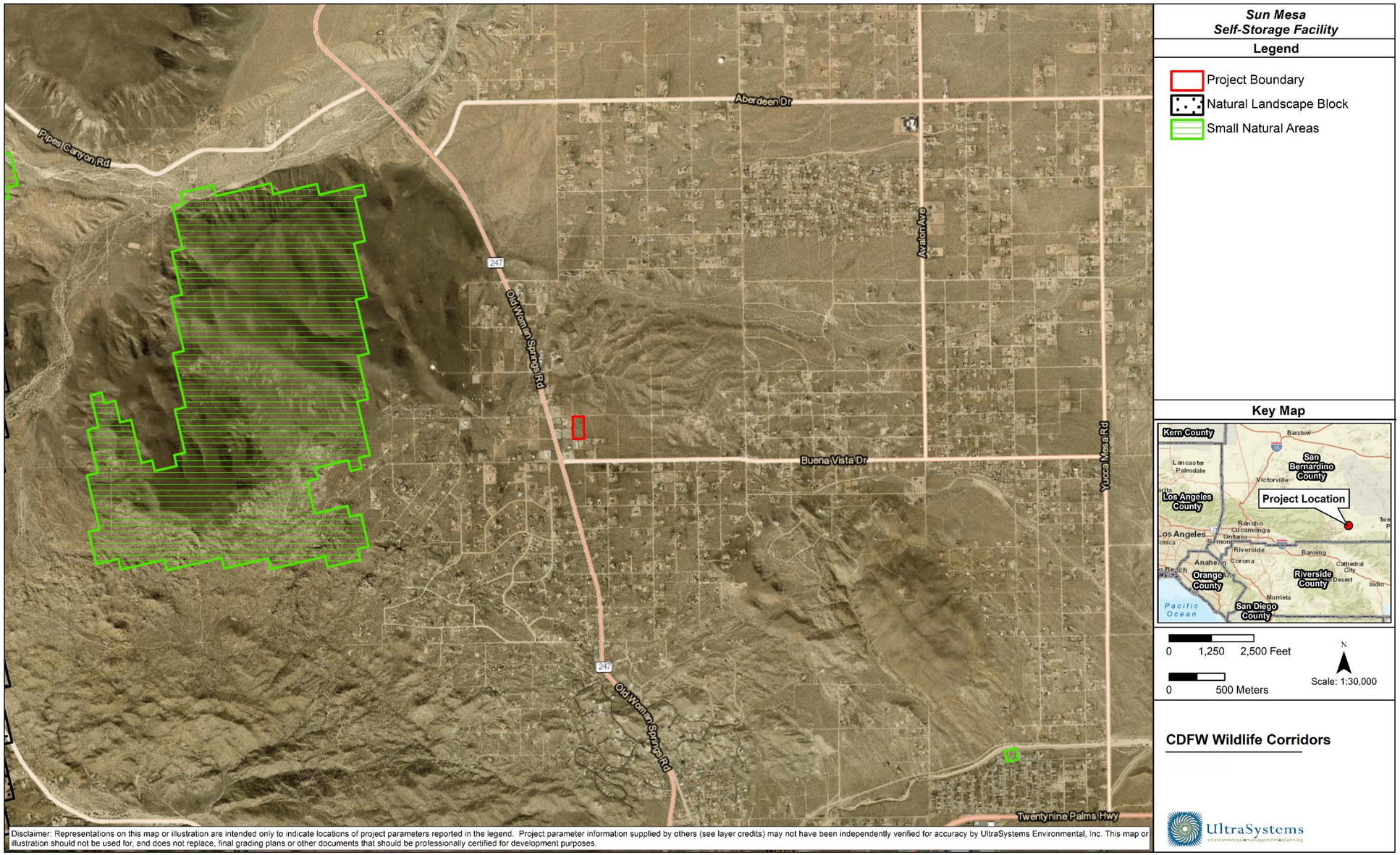
Protective fencing shall be installed around the perimeter of ecologically sensitive areas, which will be designated as No Work Areas, including around the perimeter of western Joshua trees scheduled to be transplanted, and native vegetation communities adjacent to work areas, before commencement of staging, fencing, clearing, grading, or other construction activities. The installation of fencing and protection measures around trees and vegetation will comply with the Town's Native Desert Vegetation Ordinance. The tree protection zone for Joshua tree is a 40-foot radius around the trunk of the tree. Fencing shall be maintained in place during all construction. No construction, grading, staging, or material storage will be allowed within the fence exclusion areas, or within the protected zones of any onsite native trees.

BIO-14: Yucca Valley Development Code Section 9.10.040

A native landscaping documentation package (report) shall be submitted to the division and at the time of filing land use applications (i.e., prior to any land disturbing or development activity) and may be combined with landscaping and water conservation requirements (Town of Yucca Valley, 2014). The report shall include a) the botanical and common names of regulated native desert plants, b) the precise location of each regulated desert native plant, c) the trunk or stem diameter of each regulated desert native plant, d) the height of each desert regulated native plant, e) the health or condition, including those unlikely to survive transplanting, of all regulated desert native plants, and f) the proposed placement of the regulated desert plant (i.e., the transplant site, removal determination, or adopt offsite).

Should a plant be determined as likely to survive transplanting by a qualified biologist, it shall be made available for adoption or transplanted onsite as part of the project's landscaping plan, which should maximize the use of native desert plants. The project applicant shall provide a thirty-day notice followed by a thirty-day adoption period; the adoption period may be less than thirty days should all plants be adopted. Adoption shall be prioritized in the Town of Yucca Valley, with second priority to the Morongo Basin. It is recommended the thirty-day adoption signage period commences with the submittal of the desert native plant permit. Signage posting will follow the requirements found in § 9.10.040E. All regulated desert native plants within the adoption program shall a) receive written permission to be obtained by the property owner, b) have consideration of plant's original and transplanted physical orientation, prevailing wind direction, soil type of the original and transplanted locations, and other related attributes which may affect the successful transplantation, and c) have a maintenance plan considering watering schedules, stockpile location, support, and the method of trap fencing. Plants which are not adopted within the thirty-day period may be removed.

Figure 4.4-8
CDFW WILDLIFE CORRIDORS



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Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; CDFW, 2020; UltraSystems Environmental, Inc., 2025.

July 28, 2025

Level of Significance After Mitigation

With implementation of measure **BIO-13**, conflicts with local policies or ordinances would be considered less than significant.

f) Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact

The literature review determined that the project site is not located within an HCP or NCCP. Biological Resources

4.5 Cultural Resources

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a historical resource pursuant to in § 15064.5?				**X**
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?		**X**		
c) Disturb any human remains, including those interred outside of formal cemeteries?		**X**		

Information from the LSA *Cultural Resources Assessment Report*, *dated August 2025* (LSA, 2025e) (see **Appendix D**), *prepared for the Sun Mesa Mini Storage Project, Town of Yucca Valley* has been included within this section. (see **Figure 4.5-1,** *Topographic Map*)

4.5.1 Impact Analysis

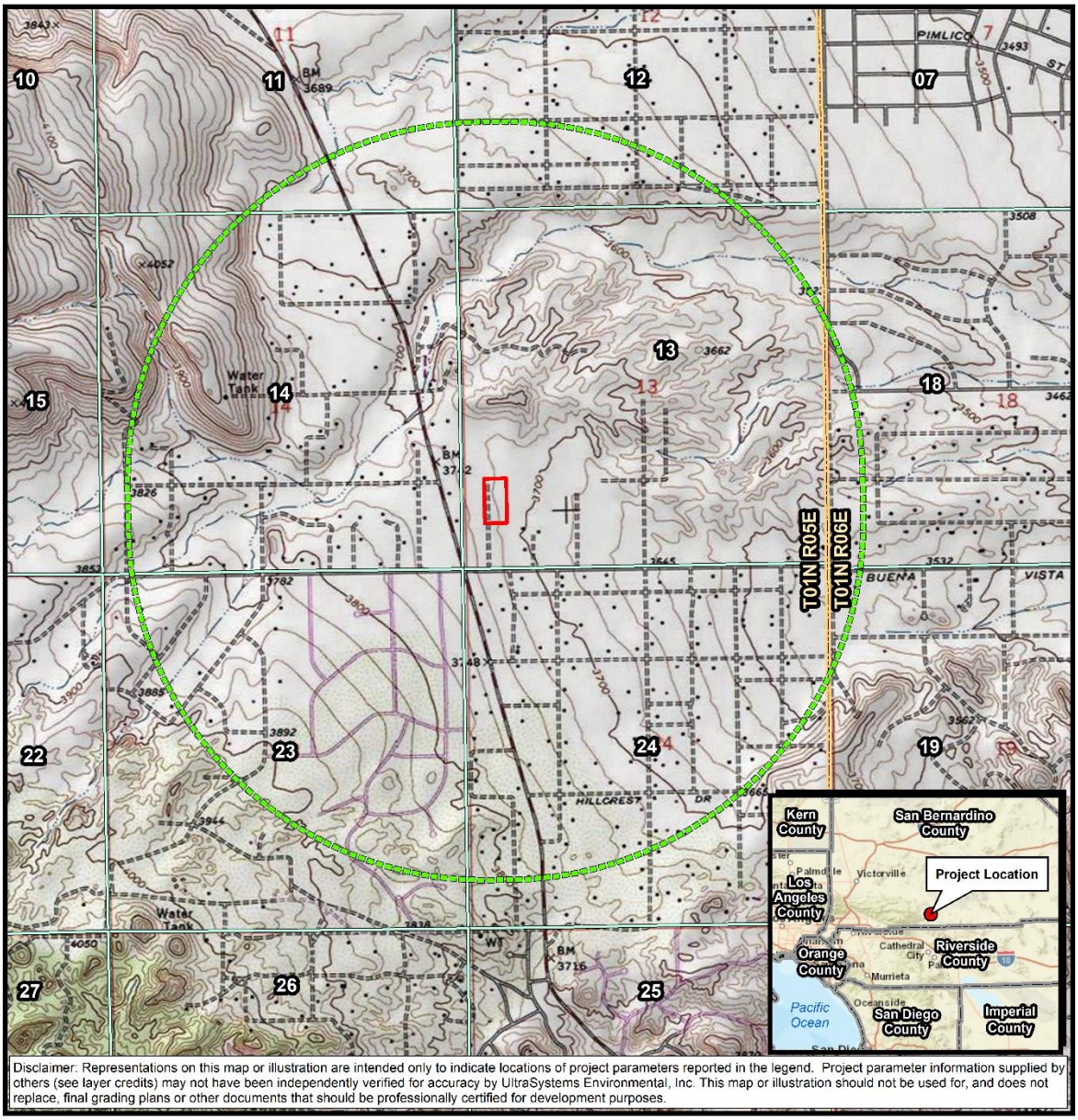
a) Would the project cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?

No Impact

A historical resource is defined in § 15064.5(a)(3) of the *CEQA Guidelines* as any object, building, structure, site, area, place, record, or manuscript determined to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California. Historical resources are further defined as being associated with significant events, important persons, or distinctive characteristics of a type, period or method of construction; representing the work of an important creative individual; or possessing high artistic values. Resources listed in or determined eligible for the California Register, included in a local register, or identified as significant in a historic resource survey are also considered as historical resources under CEQA.

Similarly, the National Register criteria (contained in Code of Federal Regulations Title 36 Section 60.4) are used to evaluate resources when complying with Section 106 of the National Historic Preservation Act. Specifically, the National Register criteria state that eligible resources comprise districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and that (a) are associated with events that have made a significant contribution to the broad patterns of our history; or (b) that are associated with the lives of persons significant in our past; or (c) that embody the distinctive characteristics of a type, period, or method of construction, or that possess high artistic values, or that represent a significant distinguishable entity whose components may lack individual distinction; or (d) that have yielded or may be likely to yield, information important to history or prehistory.

Figure 4.5-1
TOPOGRAPHIC MAP



A substantial adverse change in the significance of an historical resource, as a result of a project or development, is considered a significant impact on the environment. Substantial adverse change is defined as physical demolition, relocation, or alteration of a resource or its immediate surroundings such that the significance of the historical resource would be materially impaired. Direct impacts are those that cause substantial adverse physical change to a historic property. Indirect impacts are those that cause substantial adverse change to the immediate surroundings of a historic property, such that the significance of a historical resource would be materially impaired.

The cultural resources records search conducted at the South Central Coastal Information Center (SCCIC) at California State University Fullerton determined that no historic-era resources have been recorded at the project site. Within the one-mile radius of the project boundary (the area of Potential Impact, or APE), two historic resources were recorded, one being a 1950s residence at 4451 Old Woman Springs Road (36-027695) and the second a segment of Old Woman Springs Road (36-010716), a route dating to the 19th century. This historic period road (36-010716) is the nearest historic resource to the project site, approximately 160 meters/530 feet to the west of the project site.

According to records at the SCCIC, no previous cultural resource surveys have included a portion of the project site (APE), but there have been 16 surveys conducted within the one-mile radius project buffer that were not within the project APE (**Appendix D**).

No historic buildings were identified within the project site as a result of the project site's field survey.

No buildings or structures were present within the project area in historic period aerial photos or indicated on maps (NETR Online 2024).

Based on the results of the records search and the onsite field survey. there would be no substantial adverse change in the significance of a historical resource pursuant to in § 15064.5, and therefore the project would have no impact in this regard.

b) Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?

Less than Significant Impact with Mitigation Incorporated

An archaeological resource is defined in § 15064.5(c) of the CEQA Guidelines as a site, area or place determined to be historically significant as defined in § 15064(a) of the CEQA Guidelines, or as a unique archaeological resource defined in § 21083.2 of the Public Resources Code as an artifact, object, or site that contains information needed to answer important scientific research questions of public interest or that has a special and particular quality such as being the oldest or best example of its type, or that is directly associated with a scientifically-recognized important prehistoric or historic event or person.

The cultural resources investigation conducted by LSA, which included a CHRIS records search of the project site and buffer zone, and the pedestrian field survey suggest that a potential for undisturbed unique archeological resources exists on the project site due to the natural state of the project area. A search of the Sacred Lands File was not conducted by the Native American Heritage Commission for this project.

Based on the SCCIC cultural resources records search, it was determined that there are no prehistoric or historic cultural resources previously recorded within the project site boundary. Within the one-mile buffer zone, there have been three recorded resources, one of them prehistoric and two historic-era.

The single prehistoric site within the one-mile buffer of the project boundary is a lithic artifact scatter (36-002379). This artifact scatter is located approximately 0.29 mile southwest of the project site.

The two historic period resources include a 1950s residence at 4451 Old Woman Springs Road (36-027695) and a segment of Old Woman Springs Road (36-010716), a route dating to the 19th century that is located approximately 160 meters/530 feet to the west.

There have been 16 previous cultural resource studies within the one-mile buffer of the project. None of these surveys intersects the current project boundary.

A request was not made by LSA to the Native American Heritage Commission (NAHC) to conduct a search of their Sacred Lands File (SLF) for potential traditional cultural properties. LSA was not scoped to conduct the NAHC Sacred Lands File contact, and no such effort was made by LSA. However, UltraSystems contacted the NHAC on September 10, 2025 to request a SLF as well as a list of local Native American tribal organizations to contact. The NAHC SLF response was received September 11, 2025 and indicated that there are no SLF sites within the project area.

The NAHC provided 20 representatives of nine Native American tribes that are traditionally and culturally affiliated with the project's geographic area. The tribes listed below were contacted through email and USPS mail on September 17, 2025 requesting a reply if they have knowledge of cultural resources in the area that they wished to share and were also asked if they had any questions or concerns regarding the project. These tribes included:

- Agua Caliente Band of Cahuilla Indians
- Cahuilla Band of Indians
- Morongo Band of Mission Indians
- Quechan Tribe of the Fort Yuma Reservation
- Santa Rosa Band of Mission Indians
- Serrano Nation of Mission Indians
- Soboba Band of Luiseño Indians
- Twenty-Nine Palms Band of Mission Indians
- Yuhaaviatam of San Manuel Nation

UltraSystems is in the process of conducting follow-up telephone calls to the respective tribes, and as part of the CEQA process, all responses will be included in the Final IS/MND once they are received.

A pedestrian field survey of the project site was conducted on July 20, 2024, by LSA Archaeologist Cassidy Sharp. The field survey revealed that there was light disturbance in the area from foot and bicycle traffic. Overall visibility was poor, at approximately 50 percent with the surface substantially obscured by vegetation. Access was not inhibited by vegetation. Soils are sandy alluvial silt. Trace historic period isolated rusted cans were noted. Concrete debris were noted, along with modern refuse throughout the project area. No cultural resources were identified.

Through the various avenues of research by LSA with a CHRIS records and a pedestrian field survey and by UltraSystems with a NAHC SLF search this study did not identify cultural resources within or adjacent to the project. However, a prehistoric lithic artifact scatter was documented less than 0.33 miles away, and approximately half of the project area surface was not visible. As a result, it is reasonable to assume that the project parcel retains some potential for in situ subsurface cultural

resources, and therefore, archaeological monitoring may be considered. Grading activities would cause new subsurface disturbance and may result in the unanticipated discovery of prehistoric and/or historic archeological resources.

Mitigation Measure

MM CUL-1 If archaeological resources are discovered during construction activities, the contractor will halt construction activities in the immediate area and notify the Town of Yucca Valley (California Code of Regulations, Title 14, Chapter 3, Section 15064.5(f)). The project applicant shall retain an archaeologist who meets the Secretary of the Interior's Professional Qualifications Standards for Archaeology who will be notified and afforded the necessary time to recover, analyze, and curate the find(s). The qualified archaeologist will recommend the extent of archaeological monitoring necessary to ensure the protection of any other resources that may be in the area. Any identified cultural resources shall be recorded on the appropriate DPR 523 (A-L) form and filed with the South Central Coastal Information Center. Construction activities may continue on other parts of the project site while evaluation and treatment of prehistoric archaeological resources takes place.

Level of Significance After Mitigation

With implementation of Mitigation Measure **MM CUL-1** above, the project would result in less than significant impacts to archeological resources.

e) Would the project disturb any human remains, including those interred outside of formal cemeteries?

Less than Significant Impact with Mitigation Incorporated

As previously discussed in **Section 4.5.b)** above**,** the project would be built on relatively undisturbed land that has not been previously graded and is in a suburban area. No human remains have been previously identified or recorded onsite.

The proposed project includes grading activities for the installation of infrastructure including water, wastewater, and utility lines; and for construction of the proposed buildings. Grading would involve new subsurface disturbance and could result in the unanticipated discovery of unknown human remains, including those interred outside of formal cemeteries. In the unlikely event of an unexpected discovery, implementation of mitigation measure **CUL-2** would ensure that impacts related to the accidental discovery of human remains would be less than significant.

Mitigation Measure

MM CUL-2 If human remains are encountered during excavations associated with this project, all work will stop within a 30-foot radius of the discovery and the San Bernardino County Coroner will be notified (§ 5097.98 of the Public Resources Code). The Coroner will determine whether the remains are recent human origin or older Native American ancestry. If the coroner, with the aid of the supervising archaeologist, determines that the remains are prehistoric, they will contact the NAHC. The NAHC will be responsible for designating the Most Likely Descendant (MLD). The MLD (either an individual or sometimes a committee) will be responsible for the ultimate

disposition of the remains, as required by § 7050.5 of the California Health and Safety Code. The MLD will make recommendations within 24 hours of their notification by the NAHC. These recommendations may include scientific removal and nondestructive analysis of human remains and items associated with Native American burials (§ 7050.5 of the Health and Safety Code).

Level of Significance After Mitigation

With adherence to applicable codes and regulations protecting cultural resources and with implementation of Mitigation Measure **MM CUL-2** above, the proposed project would result in less than significant impacts to human remains.

4.6 Energy

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?			**X**	
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?			**X**	

The following analysis is based substantially on a memorandum prepared by LSA on September 13, 2025: *Air Quality, Energy, and Greenhouse Gas Technical Memorandum for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California* (LSA, 2025a).

a) Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Less than Significant Impact

According to CEQA Guidelines § 15126.2(d), "uses of nonrenewable resources during the initial and continued phases of the project may be irreversible since a large commitment of such resources makes removal or nonuse thereafter unlikely. Primary impacts and, particularly, secondary impacts (such as highway improvement that provides access to a previously inaccessible area) generally commit future generations to similar uses. Also, irreversible damage can result from environmental accidents associated with the project. Irretrievable commitments of resources should be evaluated to assure that such current consumption is justified." Therefore, the purpose of this analysis is to identify any significant irreversible environmental effects of project implementation that cannot be avoided.

Construction

The anticipated construction schedule assumes that the proposed project will be built in six to eight months. Construction-specific phases were assessed for their energy consumption under each construction sub-phase: grading, site preparation, building construction, paving, architectural coating, and trenching activities.

Construction would require energy for the manufacture and transportation of construction materials, preparation of the site for grading and building activities, and construction of the building. All or most of this energy would be derived from nonrenewable resources. Petroleum fuels (e.g., diesel and gasoline) would be the primary sources of energy for these activities. However, construction activities are not expected to result in inefficient use of energy, as gasoline and diesel fuel would be supplied by construction contractors who would conserve the use of their supplies to

minimize their costs on the project. Energy (i.e., fuel) usage on the project site during construction would be temporary and would be relatively small in comparison to the state's available energy sources.

Operation

Table 4.6-1 shows the estimated potential increase in electricity, gasoline, and diesel demand associated with the proposed project, which was calculated by LSA (LSA, 2025a). The electricity and natural gas rates are from the CalEEMod analysis.[8] while the gasoline and diesel rates are based on the traffic analysis in conjunction with USDOT fuel efficiency data, and using the USEPA's fuel economy estimates for 2020, and the California diesel fuel economy estimates for 2021.

Table 4.6-1
ESTIMATED PROJECT OPERATIONAL ENERGY USE

	Electricity Use (kWh per year)	Natural Gas Use (kBTU per year)	Gasoline (gallons per year)	Diesel (gallons per year)
Proposed Project	962,994	0	27,218	19,120

Source: Compiled by LSA (LSA, 2025a).
kBTU = thousand British thermal units
kWh = kilowatt hours

As shown in **Table 4.6-**1, the estimated increase in electricity demand associated with the operation of the proposed project would be 962,994 kWh per year. Total electricity consumption in San Bernardino County in 2022 was 16,629,614,195 kWh;[9] therefore, operation of the proposed project would negligibly increase the annual electricity consumption in San Bernardino County (by less than 0.1 percent).

In addition, the project would result in energy usage associated with motor vehicle gasoline to fuel project-related trips. As shown above in **Table 4.6-1**, the proposed project would result in the consumption of 27,218 gallons of gasoline and 19,120 gallons of diesel per year. Based on fuel consumption obtained from EMFAC2021[10], approximately 328.0 million gallons of gasoline and approximately 856.3 million gallons of diesel will be consumed from vehicle trips in San Bernardino County in 2026. Therefore, vehicle trips associated with the proposed project would increase the annual fuel use in San Bernardino County by approximately less than 0.1 percent for gasoline fuel usage and approximately less than 0.1 percent for diesel fuel usage. The proposed project would result in fuel usage that is a negligible fraction of current annual fuel use in San Bernardino County, and fuel consumption associated with vehicle trips generated by project operations would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region. Therefore, gasoline demand generated by vehicle trips associated with the proposed project would be a minimal fraction of gasoline and diesel fuel consumption in California.

Furthermore, the proposed project would be constructed using energy-efficient modern building materials and construction practices. Additionally, the proposed project would utilize new, modern appliances and equipment, in accordance with the Appliance Efficiency Regulations (Title 20, CCR

8 See **Section 4.8.2**.
9 CEC. 2022. Electricity Consumption by County. Website: www.ecdms.energy.ca.gov/elecbycounty.aspx (accessed September 2024).
10 EMFAC2021 was used by LSA in preparation of their September 12, 2024 memorandum.

Sections 1601 through 1608). The expected energy consumption during construction and operation of the proposed project would be consistent with typical usage rates for commercial uses; however, energy consumption is largely a function of personal choice and the physical structure and layout of buildings. Therefore, the proposed project would not result in a potential significant impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation.

b) Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Less than Significant Impact

According to the LSA Memorandum (2025), the California Energy Commission (CEC) recently adopted the 2023 Integrated Energy Policy Report (IEPR) (LSA, 2025a). The 2023 IEPR provides the results of the CEC's assessments of a variety of energy issues facing California. Many of these issues will require action if the state is to meet its climate, energy, air quality, and other environmental goals while maintaining energy reliability and controlling costs. The 2023 IEPR covers a broad range of topics, including decarbonizing buildings, integrating renewables, energy efficiency, energy equity, integrating renewable energy, updates on Southern California electricity reliability, climate adaptation activities for the energy sector, natural gas assessment, transportation energy demand forecasts, and the California Energy Demand Forecast.

As indicated above, energy usage on the project site during construction would be temporary in nature and would be relatively small in comparison to the state's available energy sources. In addition, energy usage associated with operation of the proposed project would be relatively small in comparison to the region's available energy sources, and energy impacts would be negligible at the regional level. Because California's energy conservation planning actions are conducted at a regional level, and because the project's total impact on regional energy supplies would be minor, the proposed project would not conflict with or obstruct California's energy conservation plans as described in the CEC's 2023 IEPR. Therefore, the proposed project would not lead to new or substantially more severe energy impacts.

4.7 Geology and Soils

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.			**X**	
ii) Strong seismic ground shaking?			**X**	
iii) Seismic-related ground failure, including liquefaction?			**X**	
iv) Landslides?				**X**
b) Result in substantial soil erosion or the loss of topsoil?			**X**	
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?			**X**	
d) Be located on expansive soil, as defined in Table 18-1 B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?			**X**	
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?			**X**	
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?		**X**		

The information in this section is based on the following technical report:

- Geotechnical Investigation, Proposed Self-Storage Facility, APN 0597-111-67, SEC Sun Mesa Drive & Newton Lane Town Of Yucca Valley, California. Prepared by Sladden Engineering,

dated January 22, 2025 (Sladden, 2025a). A complete copy of this report is included as **Appendix E** to this IS/MND.

a) Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Less than Significant Impact

The Alquist-Priolo Zones Special Studies Act defines active faults as those that have experienced surface displacement or movement during the last 11,000 years. The act requires that cities and counties mandate that proponents of projects within Alquist-Priolo Earthquake Fault Zones have geologic investigations conducted to determine whether the sites are threatened by surface displacements from future faulting before cities or counties may issue development permits for such projects. Pursuant to this act, structures for human occupancy are not allowed within 50 feet of the trace of an active fault. The project site is within an Alquist-Priolo Earthquake Fault Zone, as shown on **Figure 4.7-1**. A trace of the Johnson Valley Fault Zone passes within the project site, as shown on **Figure 4.7-2**. The project geotechnical investigation report includes the following text (Sladden, 2025a, p. 8):

> In accordance with current State of California guidelines, subsurface fault studies should be performed to identify the active surface rupture potential. Habitable structures are not permitted to be constructed across active fault splays. Local planning agencies are responsible for regulating and enforcing the applicable laws and ordinances regarding building and construction in accordance with state and local requirements. This includes oversight regarding the construction of structures not intended for human occupancy on parcels delineated to be within the fault zone. **Based on the nature of the project, it is our understanding the proposed self-storage units and office are not intended for human occupancy or to exceed 2,000 person-hours per year** (emphasis added).

The project applicant anticipates that one part-time employee would be present onsite (Billings, 2025). Self-storage customers are typically onsite only occasionally and any attempt to estimate the total durations of such visits annually would be speculative. Impacts arising from surface rupture of a known active fault would be less than significant, and impacts would be less than significant.

Figure 4.7-1
ALQUIST PRIOLO FAULT ZONES

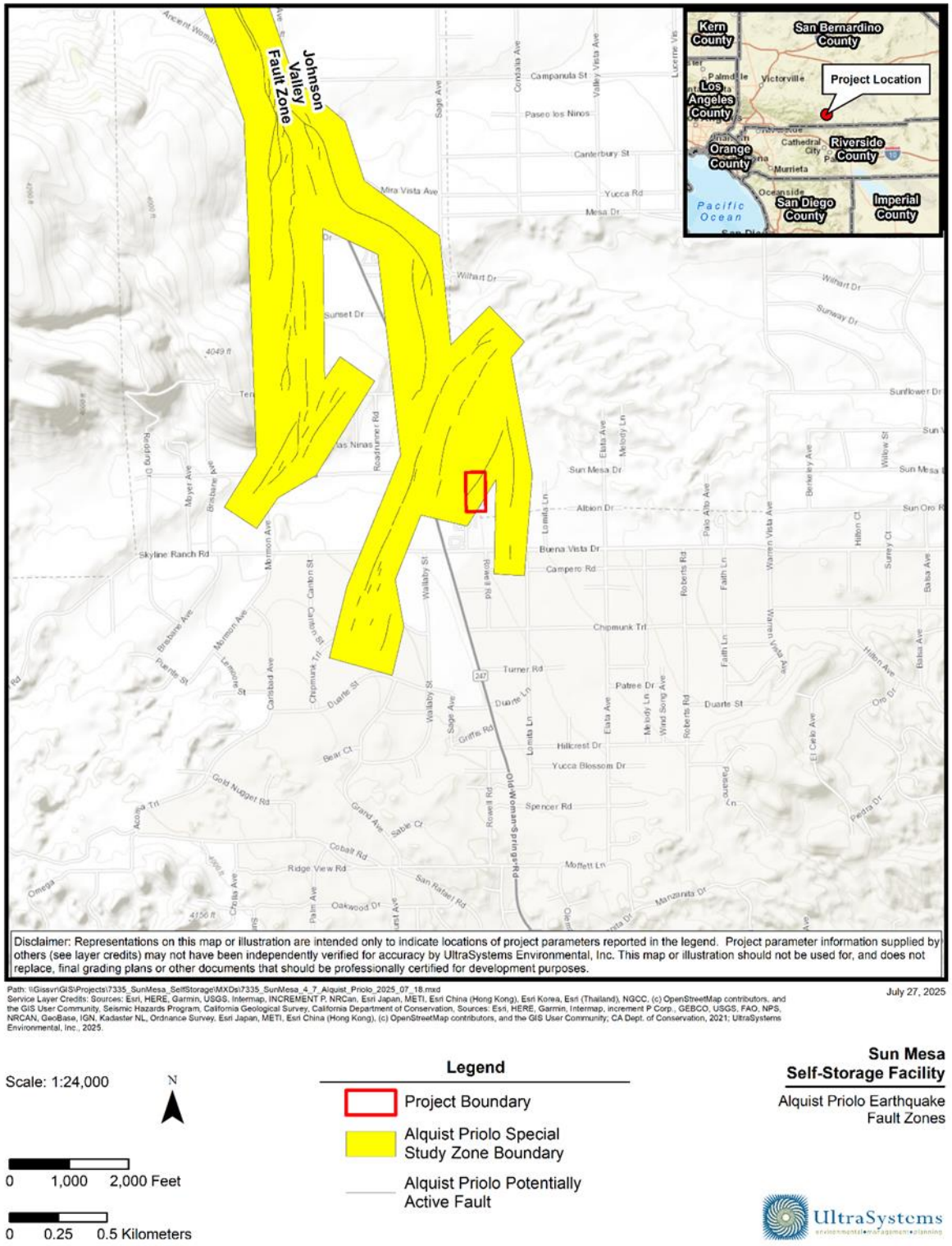
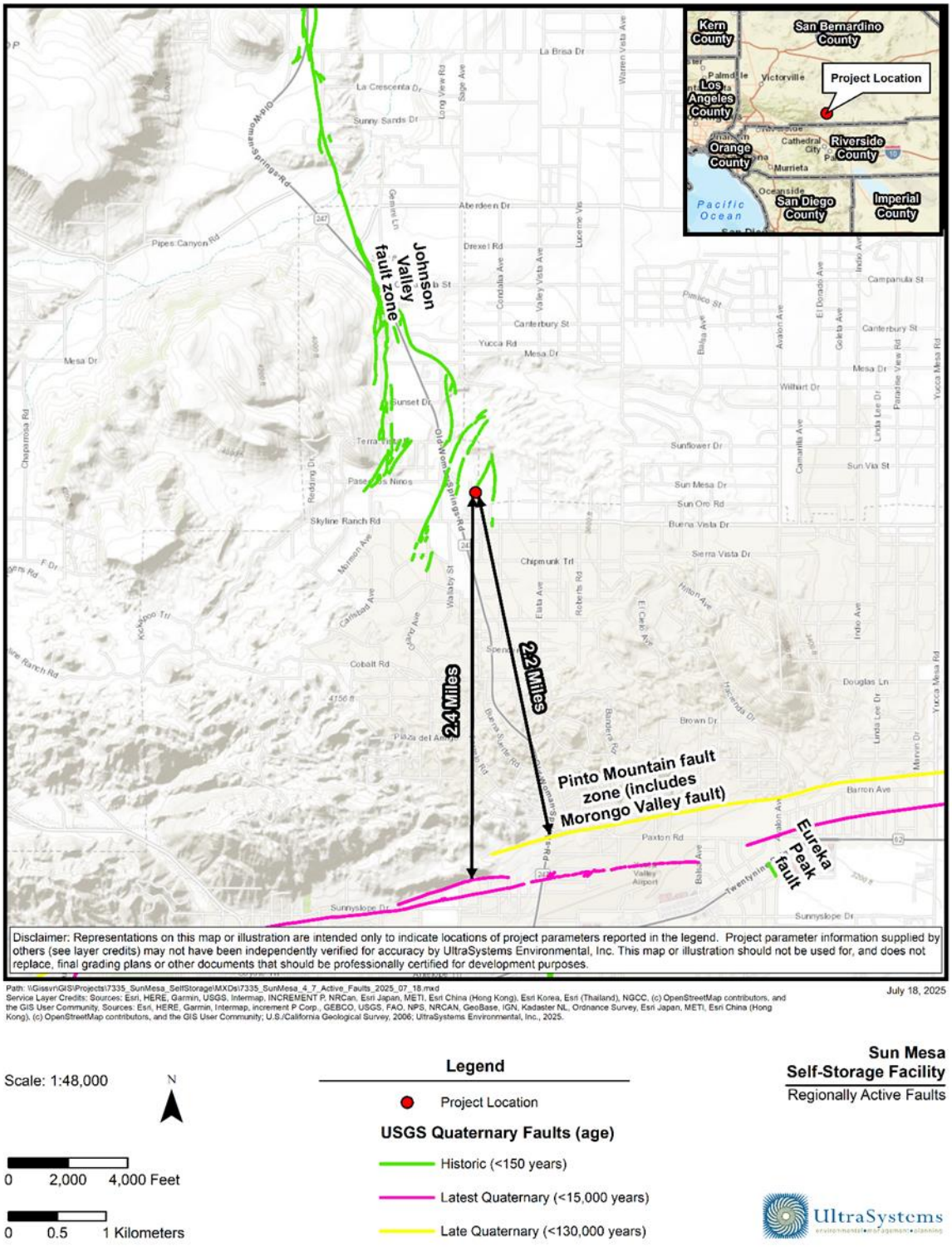


Figure 4.7-2
REGIONALLY ACTIVE FAULTS



ii) Strong seismic ground shaking?

Less than Significant Impact

As shown in **Figure 4.7-2**, the project is located within a seismically active region of Southern California, and all structures in the region are susceptible to collapse, buckling of walls, and damage to foundations from strong seismic ground shaking. A trace of the Johnson Valley Fault, which is active, passes through the project site. Several other fault traces are within one mile of the project site. One other active fault, the Pinto Mountain Fault Zone, is about 2.2 miles south of the project site.

The project would be constructed in accordance with the applicable 2025 California Building Code (CBC) issued by the California Building Standards Commission and used throughout the state (California Code of Regulations, Title 24).[11] In addition, the CBC is adopted as § 8.02.020 of the Town's Municipal Code and provides minimum standards to protect property and for public welfare by regulating the design and construction of excavations, foundations, building frames, retaining walls, and other building elements to mitigate the effects of seismic shaking and adverse soil conditions. The CBC contains provisions for earthquake safety based on factors including occupancy type, the types of soil and rock onsite, and the strength of ground motion with specified probability of occurring at the site.

Although the project site is susceptible to occasional moderate/high ground shaking from active faults in and near the project site, design and construction in accordance with the CBC would address issues related to potential seismic ground shaking at the site. For these reasons, impacts from strong seismic ground shaking would be less than significant and mitigation is not proposed.

iii) Seismic-related ground failure, including liquefaction?

Less than Significant Impact

General types of ground failures that might occur as a consequence of severe ground shaking typically include landslides, ground subsidence, ground lurching and shallow ground rupture. The probability of occurrence of each type of ground failure depends on the severity of the earthquake, distance from the faults, topography, subsoils and relatively shallow groundwater tables (approximately 50 feet or less below ground surface), in addition to other factors.

Liquefaction typically occurs when saturated or partially saturated soils behave like a liquid, as a result of losses in strength and stiffness in response to an applied stress caused by ground shaking or other sudden change in stress conditions.

The historic high groundwater levels in measured wells nearest the project site are 167 and 100 feet below ground surface, respectively (Sladden, 2025a, p. 5). The potential for liquefaction in subsurface site sediments is considered low due to the lack of shallow groundwater (Sladden, 2025a, p. 8).

Compliance with federal, state, and local regulations, including the CBC and the Town's Municipal Code, would minimize hazards from potential seismic-related ground failure, including liquefaction, that could be exacerbated by project development. Impacts would be less than significant, and mitigation is not required.

[11] The 2025 CBC will take effect on January 1st 2026; the 2022 CBC is effective till then.

iv) Landslides?

No Impact

The project site is relatively flat, consisting of a southeast-facing slope of approximately two percent grade. Existing landslide risk onsite is considered negligible (Sladden, 2025a, p. 8), and project development would not exacerbate landslide risk. No impact would occur.

b) Would the project result in substantial soil erosion or the loss of topsoil?

Less than Significant Impact

Construction

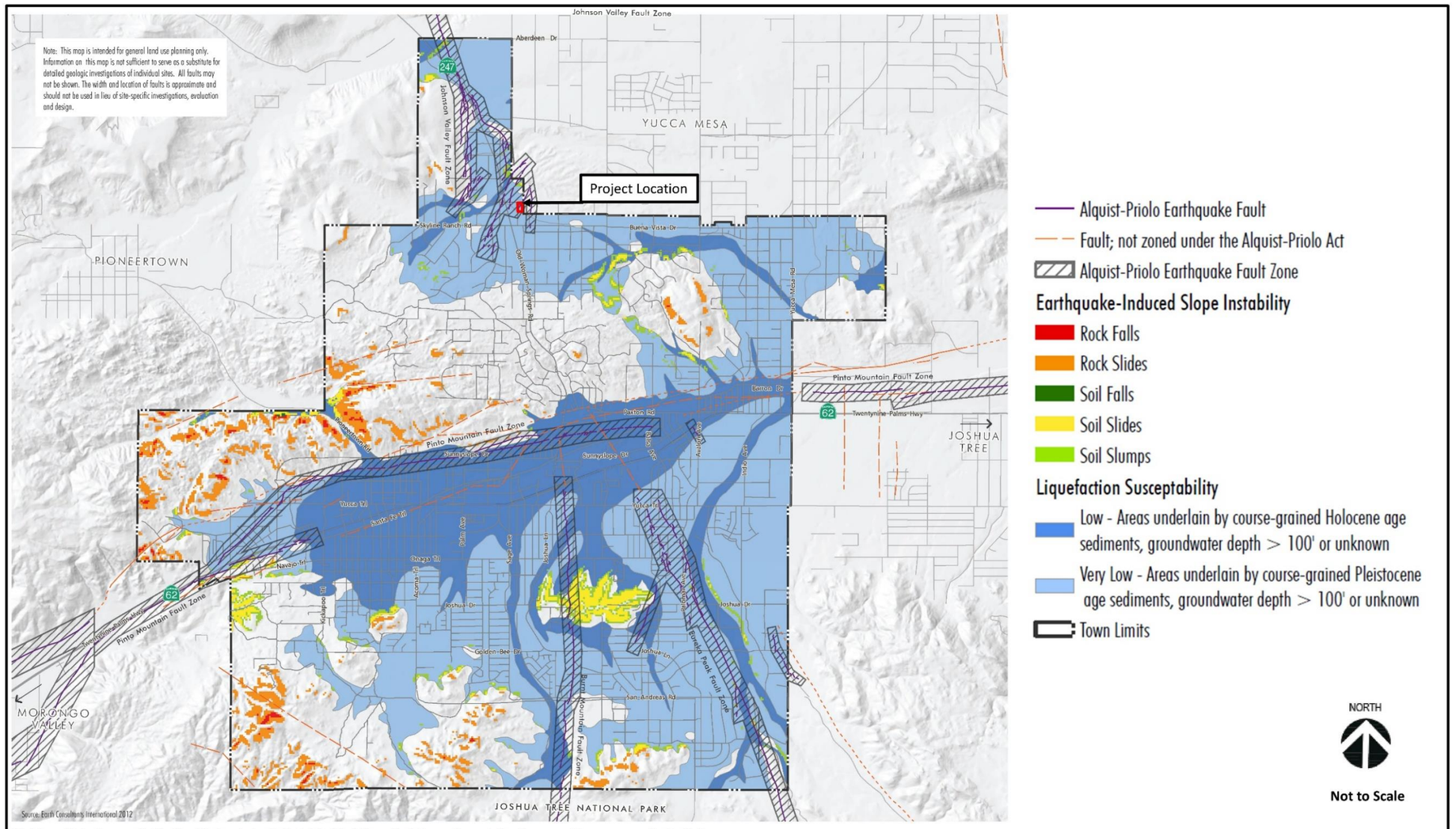
Project construction would involve extensive disturbance and exposure of soil, and thus could cause substantial soil erosion if effective soil erosion measures were not used. The Town of Yucca Valley Municipal Code, Chapter 9.37 requires that applicants for grading permits submit a soil erosion, sediment and dust control plan with their permit application; and the Director of Community Development must approve the soil erosion, sediment and dust control plan (Amlegal.com, 2025). Construction, grading, excavation, and land clearing operations are required to use measures to minimize wind erosion under MDAQMD Rule 403 (MDAQMD, 2020c). Grading and construction activities pursuant to the General Plan Update would comply with existing laws and regulations aimed at minimizing or eliminating pollution of stormwater with trash and debris and pollution of air and water by dust (Town of Yucca Valley, 2014, p. 5.8-24). Construction water quality impacts would be less than significant after compliance with the above-specified municipal code chapter and regulations.

Note that while construction projects one acre or larger in much of California must obtain coverage under the Statewide General Construction Permit (SGCP) issued by the State Water Resources Control Board, the SGCP only applies to areas where receiving waters are Waters of the United States (WOUS). Surface waters in Yucca Valley are not WOUS, and thus the SGCP does not apply to construction projects in Yucca Valley.

Operational Pollutant Controls

The project would be developed with a mix of impervious surfaces such as concrete and pavement and landscaped areas, including landscaping along the site boundary. The project includes drainage improvements consisting of two concrete ribbon gutters (that is, shallow, v-shaped concrete gutters, typically in the medians of driveways or drive aisles) extending north-south: one through the middle of the site, and one near the east site boundary; and an infiltration basin in the southwest corner of the site. The design capture volume of the infiltration basin is 13,243 cubic feet (DRP, 2024b, p. 17). Infiltration basins are highly effective at removing sediment (CASQA, 2003, p. TC-11-1). The project would have less than significant impacts related to soil erosion or loss of topsoil and mitigation is not proposed.

Figure 4.7-3
LANDSLIDES AND LIQUEFACTION



Disclaimer: Illustration provided by PlaceWorks, who has indicated that the information is true and correct. No other warranties are expressed or implied.

Source: PlaceWorks, 2013.

Sun Mesa Self-Storage Facility

Landslide and Liquefaction Zones

UltraSystems
environmental • management • planning

c) Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Less than Significant Impact

Sediments underlying the site, to the maximum depth of 21.5 feet below ground surface explored during the geotechnical investigation, are native alluvium consisting of granular soil that is dry and medium dense (Sladden, 2025a, p. 4).

Impacts related to liquefaction and landslides are discussed above in **Section 4.7 a)**. Furthermore, as described in previous responses, the site possesses low probability of landslides and liquefaction. Additionally, the project would be constructed in accordance with the requirements of the Town of Yucca Valley Municipal Code Section 8.02.020 (Building Code) and the Occupational Safety and Health Administration, which are designed to assure safe construction and include building foundation requirements appropriate to site-specific conditions.

Lateral Spreading

Lateral spreading is the downslope movement of surface sediment due to liquefaction in a subsurface layer. The downslope movement is due to gravity and earthquake shaking combined. The potential for lateral spreading onsite is considered low due to the low potential for liquefaction in subsurface site sediments (Sladden, 2025a). Impacts would be less than significant.

Collapsible Soils

Collapsible soils shrink upon being wetted and/or being subject to a load. Collapse typically occurs in young, unconsolidated, low-density, loose, dry soils common in arid to semi-arid regions. Collapsible soils are usually composed of granular particles cemented together by clay bonds. When such soils become saturated the clay bonds dissolve, causing substantial shrinkage (NRCS, 2004, p. 60). The geotechnical investigation determined that existing soils within two feet of the ground surface are unsuitable for supporting the proposed structures, and recommends over-excavation and re-compaction to a depth of two feet below existing grade or two feet below the bottoms of proposed footings, whichever is deeper (Sladden, 2025a, p. 10). Project site grading and project design and construction would comply with the preceding recommendations of the Geotechnical Evaluation Report, and project development would not exacerbate hazards arising from collapsible soils. Impacts would be less than significant.

Subsidence

The major cause of ground subsidence is the excessive withdrawal of groundwater. Soils with high silt or clay content are particularly susceptible to subsidence. The project site is not in an area of subsidence mapped by the USGS (USGS, 2025). Groundwater extraction from the Warren and Ames groundwater basins is managed pursuant to a court judgment (Warren basin) and settlement agreement (Ames Basin) (HDWD, 2021, pp. 3-4 and 3-12); thus, substantial ground subsidence in HDWD's service area is not anticipated. Project development would not exacerbate hazards related to ground subsidence. Impacts would be less than significant.

d) Would the project be located on expansive soil, as defined in Table 18-1 B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Less than Significant Impact

Expansive soils shrink and swell with changes in soil moisture. Soil moisture may change from landscape irrigation, rainfall, and utility leakage. A measurement of expansion index in one subsurface soil sample conducted as part of the geotechnical evaluation yielded an expansion index of 1, indicating low expansion potential (Sladden, 2025a, p. 8). Impacts arising from expansive soils would be less than significant.

e) Would the project have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?

Less than Significant Impact

A septic system including a septic tank and leach lines are proposed for wastewater disposal. The percolation testing report for the proposed project determined that leach lines may be used for sewage disposal on the site (Sladden, 2025b, p. 5). The percolation testing report is included as **Appendix G1**. Impacts related to capability of soils to support septic tanks would be less than significant.

f) Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Less than Significant Impact with Mitigation Incorporated

The project site is mapped as having moderate paleontological resource sensitivity in the Town of Yucca Valley General Plan (Yucca Valley, 2014, p. 5-35). The project site is underlain by Quaternary-aged older alluvium consisting of poorly bedded to non-bedded cobble-gravel and sand; and Quaternary-aged older gravel consisting of poorly-bedded cobble gravel and coarse sand (Sladden, 2025a, p.3; Dibblee and Minch, 2008). The Quaternary Period extends from approximately 2.58 million years before present to the present (ICS, 2024). Soils and sediment found onsite during the geotechnical investigation, to the maximum depth explored of 21.5 feet below ground surface (bgs), are alluvium consisting of granular soil that is dry, medium dense, and grayish brown (Sladden, 2025a, p. 4).

Two vertebrate fossils, one of an extinct horse and the other a desert tortoise, are known within the west-central portion of Town. Additional fossils are known regionally and include extinct animals such as mammoth, ground sloths, camel, horse, llama, dwarf pronghorn, and saber-toothed cat. Other regional fossils produced by older sediment and bedrock include extinct animals such as a zebra-like horse and Furlong's rabbit in addition to cotton rat, wood rat, and brown bat (Town of Yucca Valley, 2014, pp. 5-31 to -32).

Excavations or grading that extend into the uppermost layers of soil and deeper excavation into the older Quaternary sediments in the proposed project area may encounter fossils. Any substantial excavations below the uppermost layers should be closely monitored to quickly and professionally collect any specimens. Mitigation measure GEO-1 is required.

Mitigation Measure

MM GEO-1 Prior to the issuance of the grading permit, the applicant shall provide a letter to the Town of Yucca Valley Planning Division, or designee, from a qualified paleontologist stating that the paleontologist has been retained to provide services for the project. The paleontologist shall develop, as needed, a Paleontological Resources Impact Mitigation Plan (PRIMP) to mitigate the potential impacts to unknown buried paleontological resources that may exist onsite for the review and approval by the City. The PRIMP shall require that the paleontologist perform periodic paleontological monitoring of any ground disturbing activities within undisturbed native sediments during mass grading, site preparation, and underground utility installation. The project paleontologist may reevaluate the necessity for paleontological monitoring after 50 percent or greater of the excavations have been completed. In the event paleontological resources are encountered, ground-disturbing activity within 50 feet of the area of the discovery shall cease. The paleontologist shall examine the materials encountered, assess the nature and extent of the find, and recommend a course of action to further investigate and protect or recover and salvage those resources that have been encountered. Criteria for discarding specific fossil specimens shall be made explicit. If the qualified paleontologist determines that impacts to a sample containing significant paleontological resources cannot be avoided by project planning, then recovery may be applied. Actions may include recovering a sample of the fossiliferous material prior to construction, monitoring work and halting construction if a significant fossil needs to be recovered, and/or cleaning, identifying, and cataloging specimens for curation and research purposes. Recovery, salvage and treatment shall be done at the Applicant's expense. All recovered and salvaged resources shall be prepared to the point of identification and permanent preservation by the paleontologist. Resources shall be identified and curated into an established accredited professional repository such as the San Bernardino County Museum. The paleontologist shall have a repository agreement in hand prior to initiating recovery of the resource.

Level of Significance After Mitigation

With implementation of **MM GEO-1**, potential impacts to paleontological resources would be reduced to a less than significant level.

4.8 Greenhouse Gas Emissions

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?			**X**	
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?			**X**	

4.8.1 Introduction

The following analysis of the proposed project's greenhouse gas (GHG) emissions is based substantially on a memorandum prepared by LSA on September 13, 2025: *Air Quality, Energy, and Greenhouse Gas Technical Memorandum for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California* (LSA, 2025a). Attachment B to the memorandum includes results of the model that LSA used to estimate the proposed project's air quality and GHG emissions.[12]

4.8.2 Background Information on Greenhouse Gas Emissions

Life on Earth depends on energy coming from the sun. About half the light reaching Earth's atmosphere passes through the air and clouds to the surface, where it is absorbed and then radiated upward in the form of infrared heat. About 90 percent of this heat is then absorbed by carbon dioxide (CO_2) and other greenhouse gases (GHGs) and radiated back toward the surface, which is warmed to a life supporting average of 59 degrees Fahrenheit (°F) (NASA, 2024).

Human activities are changing the natural greenhouse. Over the last century, the burning of fossil fuels such as coal and oil has increased the concentration of atmospheric CO_2. This happens because the coal or oil burning process combines carbon in the fuel with oxygen in the air to make CO_2. To a lesser extent, the clearing of land for agriculture, industry, and other human activities has increased concentrations of GHGs (NASA, 2024).

GHGs are defined under the California Global Warming Solutions Act of 2006 as CO_2, methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride (SF_6). HFCs, PFCs, and SF_6 would not be emitted in significant amounts by the new activities in the proposed project, so they will not be discussed further.

Associated with each GHG species is a "global warming potential" (GWP), which is a value used to compare the abilities of different GHGs to trap heat in the atmosphere. GWPs are based on the heat absorbing ability of each gas relative to that of CO_2, as well as the decay rate of each gas (the amount removed from the atmosphere over a given number of years). The GWPs of CO_2, CH_4 and N_2O are 1,

[12] See **Section 4.8.6**.

25 and 298, respectively (GMI, 2019). Carbon dioxide equivalent (CO_2e) emissions are calculated by weighting each GHG compound's emissions by its GWP and then summing the products.

Carbon Dioxide (CO_2). Carbon dioxide is a colorless, odorless gas consisting of molecules made up of two oxygen atoms and one carbon atom. CO_2 is produced when an organic carbon compound (such as wood) or fossilized organic matter (such as coal, oil, or natural gas) is burned in the presence of oxygen. Since the industrial revolution began in the mid-1700s, industrial activities have increased in scale and distribution. Prior to the industrial revolution, CO_2 concentrations were stable at a range of 275 to 285 parts per million (ppm) (IPCC, 2007a). The National Oceanic and Atmospheric Administration's Earth System Research Laboratory indicates that the global concentration of CO_2 was 426.89 ppm in May 2025 (NOAA, 2025). These concentrations of CO_2 exceed by far the natural range over the last 650,000 years (180 to 300 ppm) as determined from ice cores.

Methane (CH_4). Methane is a colorless, odorless non-toxic gas consisting of molecules made up of four hydrogen atoms and one carbon atom. CH_4 is combustible, and is the main constituent of natural gas, a fossil fuel. CH_4 is released when organic matter decomposes in low oxygen environments. Natural sources include wetlands, swamps and marshes, termites, and oceans. Anthropogenic sources include the mining of fossil fuels and transportation of natural gas, digestive processes in ruminant animals such as cattle, rice paddies, and the buried waste in landfills. Over the last 50 years, human activities such as growing rice, raising cattle, using natural gas, and mining coal have added to the atmospheric concentration of CH_4. Other anthropogenic sources include fossil-fuel combustion and biomass burning.

Nitrous Oxide (N_2O). Nitrous oxide is a colorless, non-flammable gas with a sweetish odor, commonly known as "laughing gas," and sometimes used as an anesthetic. N_2O is naturally produced in the oceans and in rainforests (USEPA, 2025f). Manmade sources of N_2O include the use of fertilizers in agriculture, nylon and nitric acid production, cars with catalytic converters and the burning of organic matter. Concentrations of N_2O also began to rise at the beginning of the industrial revolution.

4.8.3 Regulatory Setting

GHGs are regulated at the national, state, and air basin level; each agency has a different degree of control. The United States Environmental Protection Agency (USEPA) regulates at the national level; the California Air Resources Board (ARB) regulates at the state level; and the Mojave Desert Air Quality Management District (MDAQMD) regulates at the air basin level in the project area.

4.8.3.1 Federal Regulations

The USEPA collects several types of GHG emissions data. These data help policy makers, businesses, and the USEPA track GHG emissions trends and identify opportunities for reducing emissions and increasing efficiency. The USEPA has been maintaining a national inventory of GHG emissions since 1990 and in 2009 established mandatory reporting of GHG emissions from large GHG emissions sources.

EPA is also getting GHG reductions through partnerships and initiatives; evaluating policy options, costs, and benefits; advancing the science; partnering internationally and with states, localities, and tribes; and helping communities adapt.

4.8.3.2 Corporate Average Fuel Economy (CAFE) Standards

The National Highway Traffic Safety Administration's (NHTSA's) Corporate Average Fuel Economy (CAFE) standards regulate the distance vehicles must cover per gallon of fuel. The agency establishes CAFE standards for passenger cars and light trucks (referred to as light-duty vehicles), as well as separate guidelines for fuel consumption by medium- and heavy-duty trucks and engines. The CAFE standards that became effective August 23, 2024 increased fuel efficiency for passenger cars by 2 percent annually for model years 2027–31. Light trucks were increased by 2 percent annually for model years 2029–31. Additionally, NHTSA is setting final fuel efficiency standards for heavy-duty pickup trucks and vans (HDPUVs) with a 10 percent annual increase for model years 2030–32 and further increases for model years 2033–35. However, the One Big Beautiful Bill Act, signed into law on July 4, 2025, removed civil penalties for failing to comply with federal fuel economy standards.

4.8.3.3 State Regulations

Executive Order S 3-05

On June 1, 2005, the governor issued EO S 3-05, which set the following GHG emission reduction targets:

- By 2010, reduce GHG emissions to 2000 levels.
- By 2020, reduce GHG emissions to 1990 levels.
- By 2050, reduce GHG emissions to 80 percent below 1990 levels.

To meet these targets, the Climate Action Team (CAT)[13] prepared a report to the Governor in 2006 that contained recommendations and strategies to help ensure that the targets in EO S-3-05 are met.

Assembly Bill 32 (AB 32)

In 2006, the California State Legislature enacted the California Global Warming Solutions Act of 2006, also known as AB 32. AB 32 focuses on reducing GHG emissions in California. GHGs, as defined under AB 32, include CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6. AB 32 required that GHGs emitted in California be reduced to 1990 levels by the year 2020. The ARB is the state agency charged with monitoring and regulating sources of emissions of GHGs that cause global warming. AB 32 also required that by January 1, 2008, the ARB determine what the statewide GHG emissions level was in 1990, and it must approve a statewide GHG emissions limit, so it may be applied to the 2020 benchmark. The ARB approved a 1990 GHG emissions level of 427 million metric tons of CO_2e ($MMTCO_2e$), on December 6, 2007, in its Staff Report. Therefore, emissions in California were required to be at or below 427 $MMTCO_2e$ by 2020.

Under the "business as usual" or BAU scenario established in 2008, statewide emissions were increasing at a rate of approximately one percent per year as noted below. It was estimated that the 2020 estimated BAU of 596 $MMTCO_2e$ would have required a 28 percent reduction to reach the 1990 level of 427 $MMTCO_2e$.

[13] The Climate Action Team (CAT) members are state agency secretaries and the heads of agencies, boards, and departments, led by the Secretary of the California Environmental Protection Agency (Cal/EPA). They coordinate statewide efforts to implement global warming emission reduction programs and the state's Climate Adaptation Strategy.

As part of the 2014 update to the AB 32 Scoping Plan (see below), the ARB revised the 2020 Statewide limit to 431 million MT of CO_2e, an approximately one percent increase from the original estimate. The 2020 business-as-usual forecast in the update is 509 $MMTCO_2e$. The state would need to reduce those emissions by 15.3 percent to meet the 431 $MMTCO_2e$ 2020 limit.

Climate Change Scoping Plan

The first AB 32 Scoping Plan (ARB, 2008) contained the main strategies to achieve the 2020 emissions cap. The strategies included direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, and market-based mechanisms such as a cap-and-trade system.

In December 2022, the ARB approved its Final 2022 Scoping Plan Update (ARB, 2022), which adds carbon neutrality to the former Scoping Plan. The 2022 Plan identifies a technologically feasible, cost-effective path to reduce GHG emissions by 85 percent below 1990 levels and achieve carbon neutrality by 2045 or earlier. Through the lens of carbon neutrality, the 2022 Plan expands the scope to more meaningfully consider how our natural and working lands (NWL) contribute to our long-term climate goal through carbon capture. The 2022 Plan focuses on efforts to shift away from fossil fuels, resulting in a 94 percent decrease in liquid petroleum demand, a 71 percent decrease in smog-related pollutants, a job increase of 4 million, and $200 billion of health cost savings for Californians (ARB, 2022).

Renewables Portfolio Standard (Scoping Action E-3)

The California Energy Commission estimates that in 2000 about 12 percent of California's retail electric load was met with renewable resources. Renewable energy includes (but is not limited to) wind, solar, geothermal, small hydroelectric, biomass, anaerobic digestion, and landfill gas. California's current Renewables Portfolio Standard (RPS) was intended to increase that share to 33 percent by 2020. It was reported that in 2021, over 37 percent of California's retail electricity sales were provided by RPS-certified renewables (CEC, 2023). Increased use of renewables will decrease California's reliance on fossil fuels, thus reducing emissions of GHGs from the electricity sector. In October 2015, Governor Brown signed into law Senate Bill (SB) 350, which requires retail sellers and publicly owned utilities to procure 50 percent of their electricity from eligible renewable energy resources by 2030. Signed in 2018, SB 100 requires an increase in the RPS to 60 percent by 2030, along with a long-term goal of 100 percent of RPS and zero-carbon energy by 2045 (CEC, 2023).

Senate Bill 375 (SB 375)

Senate Bill (SB) 375 passed the Senate on August 30, 2008, and was signed by the governor on September 30, 2008. Per SB 375, the transportation sector is the largest contributor of GHG emissions and contributes approximately 45 percent of the GHG emissions in California, with automobiles and light trucks alone contributing almost 30 percent. SB 375 indicates that GHGs from automobiles and light trucks can be reduced by new vehicle technology. However, significant reductions from changed land use patterns and improved transportation also are necessary. SB 375 states, "Without improved land use and transportation policy, California will not be able to achieve the goals of AB 32." SB 375 (1) requires metropolitan planning organizations to include sustainable community strategies in their regional transportation plans for reducing GHG emissions, (2) aligns planning for transportation and housing, and (3) creates specified incentives for the implementation of the strategies.

Executive Order B-30-15

On April 29, 2015, the governor issued EO B-30-15, which added an interim target of GHG emissions reductions to help ensure the State meets its 80-percent reduction by 2050, as set in EO S-3-05. The interim target is to reduce GHG emissions by 40 percent by 2030. It also directs state agencies to update the Scoping Plan, update an Adaptation Strategy every three years, and take climate change into account in their planning and investment strategies. Additionally, it requires the State's Five-Year Infrastructure Plan to take current and future climate change impacts into account in all infrastructure projects.

Title 24

Although not originally intended to reduce GHGs, California Code of Regulations Title 24 Part 6: California's Building Energy Efficiency Standards for Residential and Nonresidential Buildings was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy-efficient technologies and methods. The California Energy Commission updates the standards every three years. The 2025 standard, which will go into effect effective January 1, 2026, encourages efficient electric heat pumps, establishes electric-ready requirements for new homes, expands solar photovoltaic and battery storage standards, strengthens ventilation standards, and more (CEC, 2025).

4.8.3.4 Local Regulations

4.8.3.5 Southern California Association of Governments (SCAG)

The Southern California Association of Governments (SCAG) is the designated Metropolitan Planning Organization (MPO) for Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties. Covering 191 cities over 38,000 square miles, SCAG operates as a Joint Powers Authority and serves as both the Regional Transportation Planning Agency and the Council of Governments under state law. SCAG is responsible for preparing long-range transportation planning documents, including the Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and the 2008 Regional Comprehensive Plan. On April 4, 2024, SCAG adopted Connect SoCal, the 2024–2050 RTP/SCS, which outlines a regional development pattern designed to reduce VMT from passenger vehicles and light-duty trucks. This, in turn, supports the reduction of GHG emissions from the transportation sector (SCAG, 2024).

The ARB has established GHG reduction targets for the SCAG region of eight percent below 2005 per capita emissions levels by 2020, and 19 percent below 2005 levels by 2035. The RTP/SCS includes strategies to help the region meet these targets through coordinated land use and transportation planning. Key land use strategies include promoting new development near high-quality transit areas, along livable corridors, and within neighborhood mobility areas to encourage active transportation and reduce reliance on personal vehicles.

Although the RTP/SCS provides a regional framework for reducing GHG emissions, it does not mandate consistency with local General Plans, Specific Plans, or zoning ordinances. Instead, SCAG offers incentives to jurisdictions and developers that align local planning efforts with the SCS strategies.

4.8.3.6 The Mojave Desert Air Quality Management District (MDAQMD)

The Mojave Desert Air Quality Management District maintains a set of rules and regulations to improve and maintain healthy air quality for the entire population within its jurisdiction. When developing new regulations, the MDAQMD must comply with complex procedures established by statutes in federal and state codes. Its regulations development process is based on the specific nature of the regulation and its potential impacts. The MDAQMD has established GHG emissions thresholds in its CEQA Guidelines but has not implemented a comprehensive GHG reduction strategy. The adopted threshold is 100,000 metric tons of carbon dioxide equivalent ($MTCO_2e$) per year, or 548,000 pounds per day (LSA, 2025a, p.17).

San Bernardino Council of Governments (SBCOG)

The Town of Yucca Valley falls within the jurisdiction of the dual entity of San Bernardino County Transportation Authority (SBCTA) and San Bernardino Council of Governments (SBCOG); SBCTA primarily focuses on transportation. In response to the adoption of AB 32 and the SB 32 Scoping Plan, SBCOG developed and adopted a San Bernardino County Regional GHG Reduction Plan in 2021 that will support the county's GHG reduction target for 2030 (SBCTA, 2021). The plan includes a baseline GHG inventory and forecasts, reduction measures, and information on the implementation of a climate action plan for each of the jurisdictions included in the plan.

SBCOG, along with the two other councils of governments in the Riverside–San Bernardino–Ontario metropolitan statistical area (MSA), the Coachella Valley Association of Governments (CVAG) and the Western Riverside Council of Governments (WRCOG), has developed the Priority Climate Action Plan (PCAP), dated March 1, 2024 (SBCTA, 2024). This PCAP outlines a strategy to reduce GHG emissions across the entire MSA, drawing from both existing and newly conducted analyses. It incorporates comprehensive GHG inventories for all major sectors such as energy, transportation, solid waste, water, wastewater, and agriculture, and evaluates each sector's potential for emissions reductions based on current climate action plans. The PCAP identifies regional measures to achieve near-term GHG reductions, need for funding, and anticipated benefits for low-income and disadvantaged communities (LIDACs), among other key criteria. It also examines the costs associated with implementing these regional measures, the legal and operational authority of local jurisdictions and agencies within the MSA to carry them out, and the potential workforce impacts tied to their implementation.

Yucca Valley General Plan

The Town of Yucca Valley addresses climate change through the Open Space and Conservation Element of its General Plan (Town of Yucca Valley, 2014). This section outlines goals and policies aimed at improving and preserving air quality to support the health of residents and the local economy. The following GHG-related policies from the Open Space and Conservation Element are relevant to the proposed project:

Policy OCS 11-1: Continue participating in and supporting the San Bernardino County Regional Greenhouse Gas Reduction Plan.

Policy OCS 11-2: Promote the design of new development that utilizes the desert climate through solar orientation, strategic shading, and other sustainable building practices and technologies.

Policy OCS 11-3: Ensure the General Plan's land use, housing, and transportation goals and policies remain consistent with and contribute to the Southern California Association of Governments (SCAG) Regional Transportation Plan and Sustainable Communities Strategy to help reduce greenhouse gas emissions.

4.8.4 GHG Emissions

4.8.4.1 National Emissions

The United States is the second largest emitter of GHGs globally (behind China) and emitted approximately 6,343 million metric tons of carbon dioxide equivalent in 2022 ($MMTCO_2e$) (USEPA, 2025g), not including GHG absorbed by forests and agricultural land. The largest source of GHG in the United States (28 percent) is burning fossil fuels for transportation (USEPA, 2025g). Generating electric power accounted for the second largest portion (25 percent). The remaining 47 percent of U.S. GHG emissions were contributed by the agriculture, industry, and residential and commercial sectors.

4.8.4.2 State Emissions

The California Air Resources Board (CARB) reports that in 2022, total GHG emissions in California were 371.1 $MMTCO_2e$ (ARB, 2024). The largest source of GHG in California is burning fossil fuels for transportation (39 percent) (ARB, 2024). The industrial sector accounted for the second largest portion (23 percent). The remaining 38 percent of state GHG emissions were contributed by the agriculture, electricity, and residential and commercial sectors.

4.8.4.3 Local Emissions

The Town of Yucca Valley has not developed a climate action plan. However, the PCAP presents the town's baseline and projected emissions and compares them with the 2030 GHG Target. In 2008, Yucca Valley's community-wide GHG inventory was 20,652 $MTCO_2e$ and in 2016 it was 21,445 $MTCO_2e$. The town's GHG forecast for 2030 is 94,254 $MTCO_2e$ which falls below the goal of 106,543 $MTCO_2e$ (SBCTA, 2024).

4.8.5 Impact Thresholds

CEQA Guidelines §15064.4 provides discretion to the lead agency whether to: (1) use a model or methodology to quantify GHG emissions resulting from a project, and which model or methodology to use; or (2) rely on a qualitative analysis or performance-based standards. In addition, CEQA does not provide guidance to determine whether the project's estimated GHG emissions are significant, but recommends that lead agencies consider several factors that may be used in the determination of significance of project-related GHG emissions, including:

- The extent to which the project may increase or reduce GHG emissions as compared to the existing environmental setting.
- Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

CEQA Guidelines § 15130(f) states that the effects of GHG emissions are by their very nature cumulative and should be analyzed in the context of CEQA's requirements for cumulative impact analysis. Additionally, CEQA Guidelines § 15064(h)(3) states that a project's incremental contribution to a cumulative impact can be found not cumulatively considerable if the project would comply with an approved plan or mitigation program that provides requirements to avoid or lessen the cumulative problem.

The Town of Yucca Valley has not established GHG significance thresholds but has adopted the 2021 San Bernardino GHG reduction Plan, which outlines a GHG Development Review Process (DRP) (Atkins, 2015). All proposed projects are required to implement the GHG performance standards identified in the DRP and comply with applicable state regulations. For projects that exceed the screening threshold of 3,000 $MTCO_2e$ per year, the use of screening tables or preparation of a project-specific technical analysis is required to quantify and mitigate GHG emissions (LSA, 2025a, p. 23). Projects with emissions below 3,000 $MTCO_2e$ per year that demonstrate compliance with applicable GHG performance standards and state requirements are generally considered to have a less than significant impact on both project-level and cumulative GHG emissions.

Based on the foregoing guidance, the proposed project is evaluated against the San Bernardino County GHG screening threshold of 3,000 $MTCO_2e$ per year. In addition, the project is reviewed for consistency with the 2022 Scoping Plan and the 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS).

4.8.6 Impact Analysis

4.8.6.1 Methodology

Short-term construction GHG emissions and long-term operational GHG emissions were assessed by LSA using the California Environmental Emissions Estimator Model (CalEEMod) Version 2022.1.1.28 (CAPCOA, 2017). This analysis focused upon emissions of CO_2, CH_4, and N_2O only. HFCs, PFCs, and SF_6 would be emitted in negligible quantities by the proposed project, so they are not discussed further.

a) Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?

Less than Significant Impact

California has enacted several pieces of legislation that relate to GHG emissions and climate change, many of which set aggressive goals for GHG reductions within the state. Per Senate Bill 97, the California Natural Resources Agency adopted amendments to the CEQA Guidelines, which address the specific obligations of public agencies when analyzing GHG emissions under CEQA to determine a project's effects on the environment. However, neither a threshold of significance nor any specific mitigations are included or provided in these CEQA Guideline amendments.

GHG Significance Threshold

Neither the Town of Yucca Valley, the MDAQMD, nor the State CEQA Guidelines Amendments have adopted quantitative thresholds of significance for addressing a project's construction-related GHG emissions. Nonetheless, § 15064.4 of the CEQA Guidelines serves to assist lead agencies in determining the significance of the impacts of GHGs. As required in § 15064.4 of the CEQA Guidelines, this analysis includes an impact determination based on the following: (1) an estimate of the amount

of GHG emissions resulting from the proposed project; (2) a qualitative analysis or performance based standards; (3) a quantification of the extent to which the proposed project increases GHG emissions as compared to the existing environmental setting; and (4) the extent to which the proposed project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions.

As noted above, this analysis evaluates the proposed project against the San Bernardino County GHG screening threshold of 3,000 $MTCO_2e$ per year. Construction-related GHG emissions are amortized over a 30-year project lifespan, combined with annual operational emissions, and then compared to the applicable significance threshold to assess potential impacts.

Construction GHG Emissions

Construction is an episodic, temporary source of GHG emissions. Emissions are generally associated with the operation of construction equipment and the disposal of construction waste. Only GHG emissions from onsite construction activities and offsite hauling and construction worker commuting are considered project-generated. As explained by the California Air Pollution Control Officers Association (CAPCOA) in its 2008 white paper (CAPCOA, 2008), the information needed to characterize GHG emissions from manufacture, transport, and end-of-life of construction materials would be speculative at the CEQA analysis level. CEQA does not require an evaluation of speculative impacts (*CEQA Guidelines* § 15145). Therefore, the construction analysis does not consider such GHG emissions, but does consider non-speculative onsite construction activities, and offsite hauling, and construction worker trips. All GHG emissions are identified on an annual basis.

Estimated criteria pollutant emissions from the proposed project's onsite and offsite project construction activities were calculated by LSA using CalEEMod, Version 2022.1.1.28, which was described in **Section 4.3.6**. The results of this analysis are presented in **Table 4.8-2**. The proposed project's total construction GHG emissions are estimated to be 495.4 $MTCO_2e$. To ensure that construction emissions are assessed in a quantitative sense, construction GHG emissions have been amortized over the life of the project, which is considered to be 30 years. The amortized value, **16.5 $MTCO_2e$**, has been added to the proposed project's annual operational GHG emissions.

Table 4.8-2
PROJECT CONSTRUCTION-RELATED GHG EMISSIONS

Year	Annual Emissions (MT)			
	CO_2	CH_4	N_2O	CO_2e
2024	74.1	< 0.005	< 0.005	74.4
2025	223	0.01	0.01	225
2026	194	0.01	0.01	196
Total	**491.1**	**0.02**	**0.15**	**495.4**

Source: Calculated by LSA using CalEEMod Version 2022.1.1.28 (LSA, 2025a, Attachment B).

Operational GHG Emissions

For a reasonable maximum emissions case, it was assumed that GHG emissions from the Sun Mesa Self Storage Project site are currently zero. Operational GHG emissions calculated by CalEEMod are shown in **Table 4.8-3**. Total annual unmitigated emissions from the proposed project would be 627.8 $MTCO_2e$ per year. Energy production and mobile sources account for about 83 percent of annual operational emissions.

Table 4.8-3
PROJECT OPERATIONAL GHG EMISSIONS

Emissions Source	Estimated Project Generated CO_2e Emissions (Metric Tons per Year)
Area Sources	1.4
Energy Demand (Electricity & Natural Gas)	233.3
Mobile (Motor Vehicles)	288.6
Solid Waste Generation	27.7
Water Demand	60.3
Construction Emissions[a]	16.5
Total	**627.8**

Source: Calculated by LSA using CalEEMod version 2022.1.1.28 (LSA, 2025a, Attachment B).
[a]*Total construction GHG emissions were amortized over 30 years and added to those resulting from the operation of the project.*

Therefore, under the first significance criterion, GHG emissions would be less than significant, and no mitigation is necessary.

b) Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHG?

Less than Significant Impact

The proposed project is required to be consistent with GHG reduction goals established in CARB's 2022 Scoping Plan and SCAG's 2024–2050 RTP/SCS.

The 2022 Scoping Plan outlines California's strategy to meet its climate goals, including reducing GHG emissions to 40 percent below 1990 levels by 2030, as set by EO B-30-15 and codified in SB 32. It builds on previous plans under AB 32 and supports the path towards the State's goal of carbon neutrality by 2045, as established by AB 1279. The scoping plan evaluates progress toward 2030 targets and identifies strategies across clean energy, transportation, land use, and natural systems to achieve long-term climate, health, and equity outcomes.

Energy-efficient measures outlined in the scoping plan aim to reduce building-related emissions through improved standards, new technologies, and broader use of green practices. The proposed project will eliminate natural gas use and comply with current Title 24 energy efficiency and green building standards. Because the project does not rely on natural gas, it is consistent with California's 2045 carbon neutrality target and would comply with applicable energy measures. The proposed project supports water conservation goals by incorporating low-water landscaping and complying with the latest Title 24 standards and the California Model Water Efficient Landscape Ordinance. These measures help reduce water use and related GHG emissions, ensuring the project does not conflict with state water efficiency objectives. Although regional transportation GHG targets don't directly apply to the project, vehicles accessing the site would comply with state clean car standards such as Pavley II (LEV III), which significantly reduce emissions. Therefore, the project would not conflict with transportation-related GHG reduction measures. The proposed project would not conflict with existing State regulations adopted to achieve the overall GHG emission reduction goals identified in the 2022 Scoping Plan.

SCAG's 2024–2050 RTP/SCS promotes land use and transportation strategies that reduce GHG emissions through transit-oriented development, complete streets, and integrated planning. While local plans aren't required to align with the RTP/SCS, incentives are provided for consistency. The proposed project aligns with local land use and zoning, does not trigger CEQA criteria for regional significance, and would not conflict with SCAG's regional GHG reduction goals.

The project will comply with all relevant energy-reducing provisions of Title 24, which indirectly reduce GHG emissions by reducing energy use. Implementation of the proposed project would not interfere with SCAG's ability to implement the regional strategies outlined in the RTP/SCS. The proposed project will be consistent with state and regional GHG reduction goals and would not conflict with any plan adopted for reducing GHG emissions. Therefore, the project's GHG emissions impacts will be less than significant.

4.9 Hazards and Hazardous Materials

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?			**X**	
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?			**X**	
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one quarter mile of an existing or proposed school?				**X**
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?				**X**
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?				**X**
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?			**X**	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?				**X**

The analysis in this section relies on the findings of the Phase I Environmental Site Assessment (Phase I ESA) prepared by DRP Enterprises, LLC., initially dated October 31, 2024, and updated on July 17, 2025 (DRP, 2024a) (see **Appendix F**). The Phase I ESA was conducted in accordance with ASTM E1527-21 standards and includes a site reconnaissance, historical land use review, and regulatory database search. The assessment evaluates whether the project site contains Recognized Environmental Conditions (RECs), defined as the presence or likely presence of hazardous substances or petroleum products under conditions that indicate a potential threat to human health or the environment.

a) Would the project create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Less than Significant Impact

The proposed project would involve standard construction activities that may require the temporary use and transport of hazardous materials such as fuels, lubricants, and solvents. These materials would be used in accordance with all applicable local, state, and federal regulations, including those enforced by the California Department of Toxic Substances Control (DTSC) and the Occupational Safety and Health Administration (OSHA). All hazardous materials would be stored, handled, and disposed of in compliance with regulatory standards to minimize risks to workers, the public, and the environment.

No industrial uses or operations involving large-scale hazardous materials are proposed as part of the project. The Phase I ESA did not identify any RECs that would elevate the baseline risk. Therefore, the project would have a less than significant impact to the public or the environment through the routine transport, use, or disposal of hazardous materials.

b) Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Less than Significant Impact

The project involves typical construction-related activities that could result in the temporary use and storage of hazardous materials such as fuels, lubricants, and adhesives. These activities inherently carry a low potential for accidental release; however, the risk is minimized through compliance with existing federal, state, and local regulations, and applicable California Fire Code provisions.

The Phase I ESA did not identify any RECs or existing contamination that would increase the likelihood of hazardous material release due to upset conditions. No unusually hazardous uses or activities are proposed.

Compliance with best management practices (BMPs) and regulatory oversight ensures that the potential for upset or accident conditions resulting in the release of hazardous materials would be adequately managed and contained and have a less than significant impact.

c) Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

No Impact

A review of available data indicates no existing or proposed schools within 0.25 mile of the project site. The nearest school, Yucca Mesa Elementary School, is located approximately 1.7 miles northwest of the project site.

The project would involve only typical construction activities and would not emit hazardous emissions or handle acutely hazardous substances, wastes, or operations. Any temporary use of fuels, lubricants, or adhesives would be managed under standard regulatory controls, including requirements under California Health and Safety Code §25507, Cal/OSHA, and local Fire Code.

Given the lack of nearby schools and the implementation of appropriate handling practices for any minor hazardous materials used during construction, the project would not result in any impacts related to hazardous emissions or exposure near schools.

d) Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

No Impact

A review of the Phase I ESA confirms that the site is not listed on any hazardous materials registries, including those identified under Government Code § 65962.5 (the "Cortese List"), such as leaking underground storage tanks (GeoTracker), hazardous waste facilities (EnviroStor), or active cleanup orders as shown on **Figure 4.9-1**. Regulatory database searches and agency queries identified no records associating the site or adjoining parcels with any listed hazardous site.

The absence of listing under § 65962.5 indicates no heightened baseline risk. Accordingly, the project would not create a significant hazard to the public or environment due to its presence on any such list. Therefore, the project would have no impact.

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

No Impact

The project site is not located within any designated airport influence area or safety zones established by the Airport Comprehensive Land Use Plan (CLUP) for Yucca Valley Airport (County of San Bernardino, 1992). Although the project site lies 2.5 miles north of the Yucca Valley Airport as detailed in **Figure 4.9-2**, it is situated outside of all airport compatibility zones identified in the CLUP. Therefore, the project would not result in a safety hazard or expose people residing or working in the project area to excessive noise levels associated with airport operations. No land use conflicts, or safety concerns related to airport proximity have been identified, and there would be no impact.

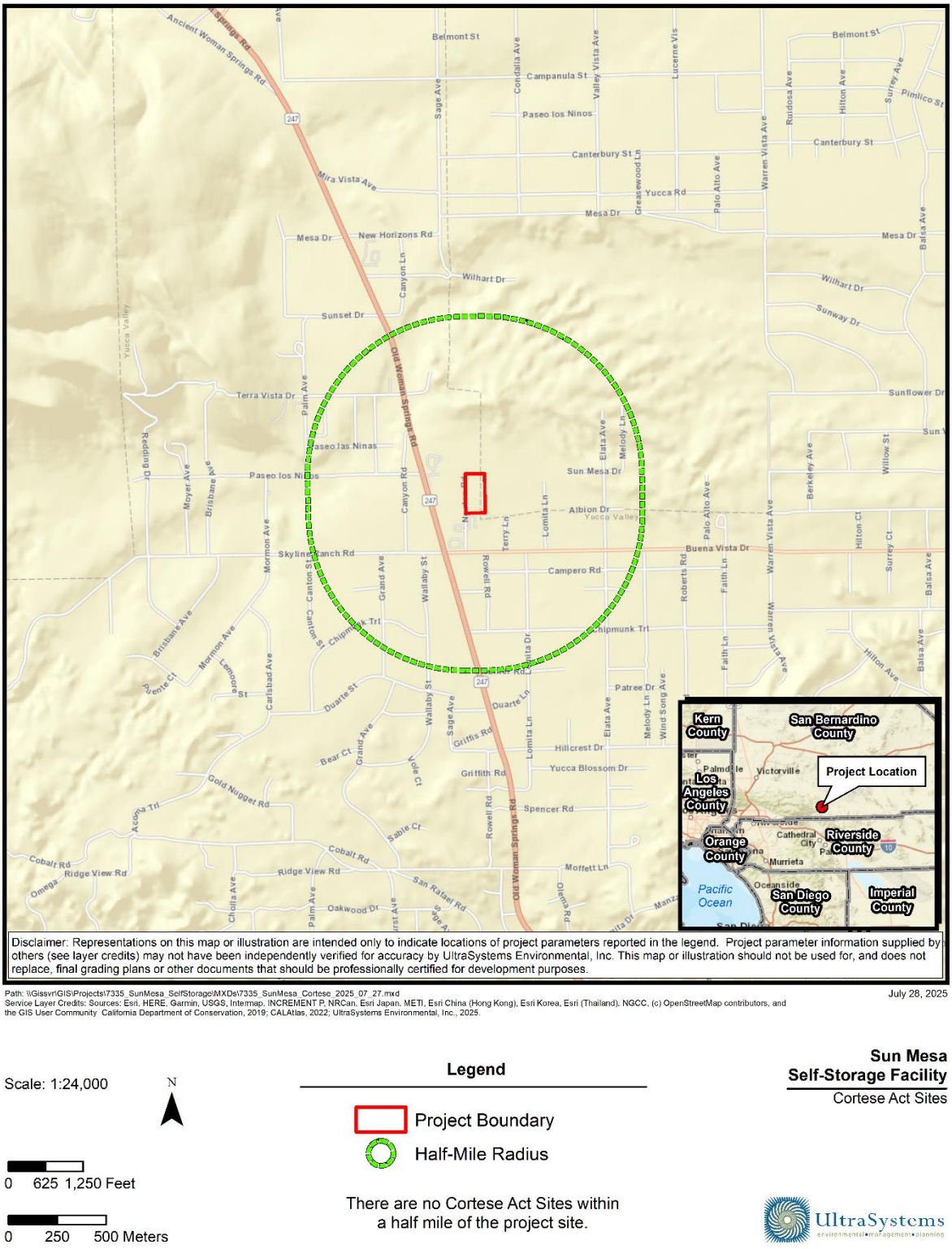
f) Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact

The project would not impair the implementation of, or physically interfere with, any adopted emergency response or evacuation plan. Located at the southeast corner of Newton Lane and Sun Mesa Drive, the project includes two 30-foot-wide driveways and internal circulation aisles designed in accordance with the California Fire Code and the Town of Yucca Valley's regulations. Offsite improvements, such as half-width roadway paving, sidewalks, and curb and gutter along the project's boundaries, would be completed under an encroachment permit issued by the Town's Engineering Department, ensuring that emergency access is preserved throughout construction and operation.

The project is consistent with the Town's Local Hazard Mitigation Plan (LHMP), which emphasizes emergency access and hazard avoidance, and supports the goals of the San Bernardino County Emergency Operations Plan (EOP), which prioritizes route clearance and emergency coordination. Construction traffic will be managed to preserve roadway access, and plans will be reviewed by the County Fire Protection District for compliance with fire and emergency access standards. Therefore, the project would have a less than significant impact on emergency response or evacuation plans.

Figure 4.9-1
CORTESE LIST SITE MAP



Disclaimer: Representations on this map or illustration are intended only to indicate locations of project parameters reported in the legend. Project parameter information supplied by others (see layer credits) may not have been independently verified for accuracy by UltraSystems Environmental, Inc. This map or illustration should not be used for, and does not replace, final grading plans or other documents that should be professionally certified for development purposes.

Path: \\Gissvr\GIS\Projects\7335_SunMesa_SelfStorage\MXDs\7335_SunMesa_Cortese_2025_07_27.mxd
Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community California Department of Conservation, 2019; CALAtlas, 2022; UltraSystems Environmental, Inc., 2025.

July 28, 2025

Scale: 1:24,000

N

0 625 1,250 Feet

0 250 500 Meters

Legend

Project Boundary

Half-Mile Radius

There are no Cortese Act Sites within a half mile of the project site.

Sun Mesa Self-Storage Facility
Cortese Act Sites

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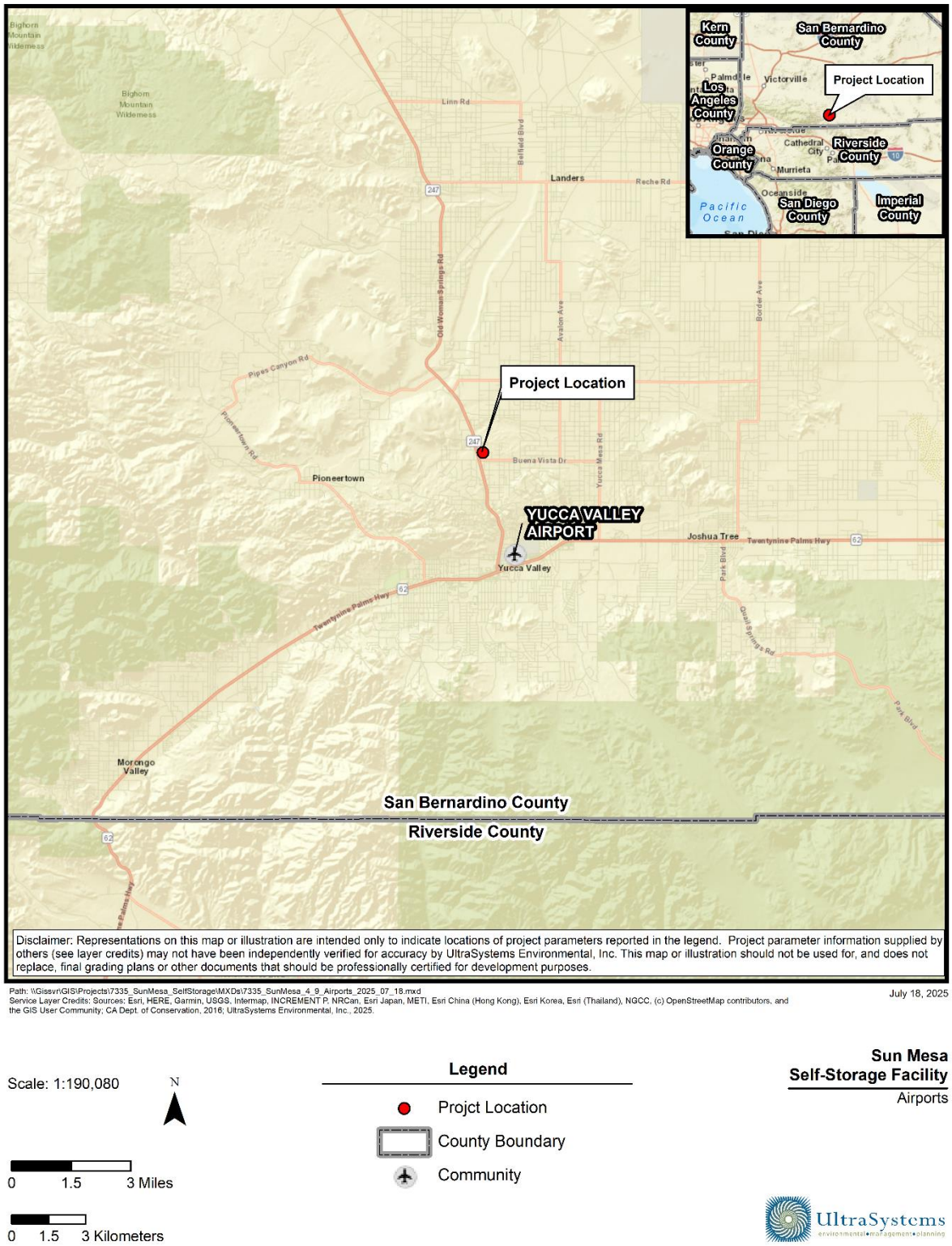
Figure 4.9-2
AIRPORT LOCATION MAP



g) Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

No Impact

As detailed further in **Section 4.20**, the project site is located within a State Responsibility Area (SRA) but is not designated as a "Very High Fire Hazard Severity Zone" (VHFHSZ) per the most recent CAL FIRE Fire Hazard Severity Zone maps. The surrounding area consists of low-density development and natural desert vegetation with moderate fuel loads. Local fire protection services are provided by San Bernardino County Fire Protection District, and the site is served by existing fire infrastructure, including maintained access routes.

The project will implement all applicable California Building Code Chapter 7A Fire-Safe Construction Standards, including fire-resistant materials, defensible space, and fire apparatus access. Construction and operation will also adhere to the requirements of Public Resources Code §§ 4290 and 4291, including vegetation clearance and emergency water supply availability.

Given the site's location outside of a VHFHSZ and compliance with modern fire safety regulations, the project would not expose people or structures to a significant wildfire risk and no impact would occur.

4.10 Hydrology and Water Quality

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?			**X**	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?			**X**	
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:			**X**	
i) result in substantial erosion or siltation on or offsite;			**X**	
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;			**X**	
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or			**X**	
iv) impede or redirect flood flows?				**X**
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?				**X**
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?				**X**

a) Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?

Less than Significant Impact

The California State Water Resources Control Board requires its nine Regional Water Quality Control Boards (RWQCBs) to develop water quality control plans (Basin Plans) designed to preserve and enhance water quality and protect the beneficial uses of all Regional waters. Specifically, Basin Plans

designate beneficial uses for surface waters and groundwater, set narrative and numerical objectives that must be attained or maintained to protect the designated beneficial uses and conform to the State antidegradation policy, and describe implementation programs to protect all waters in the Regions (RWQCB 1995). In addition, Basin Plans incorporate by reference all applicable State and Regional Board plans and policies, and other pertinent water quality policies and regulations. The proposed project is under the jurisdiction of the Colorado River (Region 7) RWQCB.

As shown in **Figure 4.10-1,** *USGS Surface Waters and Watersheds*, the project site is located within the USGS Town of Joshua Tree sub-watershed that spans about 20 square miles of the central and western Morongo Basin. Drainage within the Joshua Tree sub-watershed is internal, meaning that it terminates into desert valleys, and does not reach the ocean (USGS, 2009).

Much of the project site is a southeast-facing slope with grades up to 14 percent in the southern section of the site and as slight as 0.1 percent in the northern section of the site (DRP, 2024a, p. 7).

A drainage study for the project was completed DRP Enterprises, LLC November 10, 2024 (DRP, 2024b) and is included as **Appendix G2**. The project site and the area tributary to the site (i.e., west of the site) is divided into two drainage areas, Area A and Area B, depicted on **Figure 4.10-2**. The areas in acres, and the peak runoff estimated from a 100-year, 1-hour storm are listed below in **Table 4.10-1**.

Table 4.10-1
PROJECT SITE AND TRIBUTARY AREA RUNOFF RATES

Drainage Area	Area, Acres			Peak Flow (Q), cubic feet per second (cfs), 100-year storm, existing conditions		
	Onsite	Offsite	Total	Onsite	Offsite	Total
A	2.46	4.48	6.94	6.51	17.54	24.05
B	2.11	7.89	10	3.30	30.09	33.40

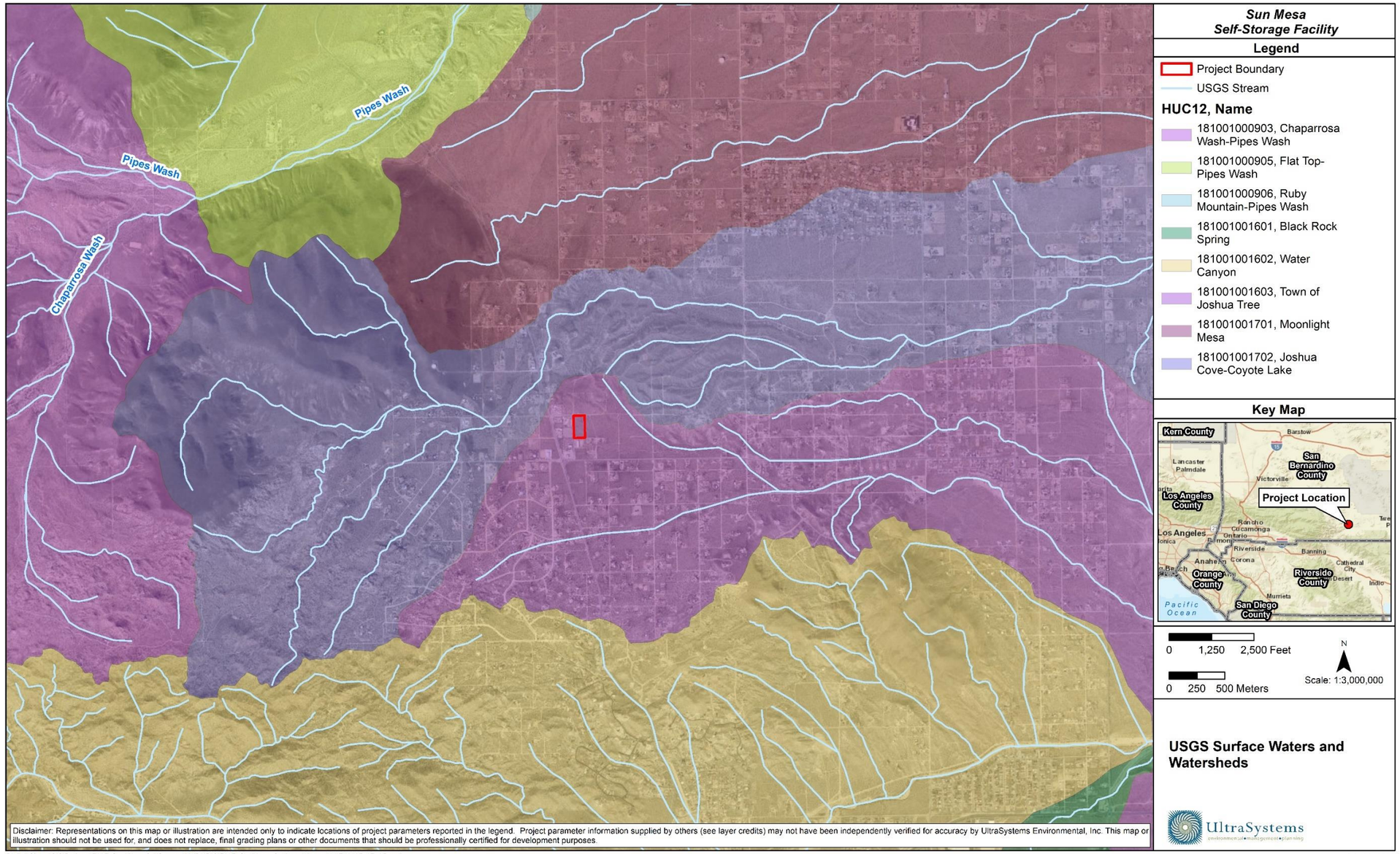
Source: DRP, 2024b

Development of the project has the potential to result in two types of water quality impacts: (1) short-term impacts due to construction-related discharges; and (2) long-term impacts from operation. Temporary soil disturbance would occur during project construction, due to earth-moving activities such as excavation and trenching for foundations and utilities, soil compaction and moving, cut and fill activities, and grading. Disturbed soils are susceptible to high rates of erosion from wind and rain, resulting in sediment transport via stormwater runoff from the project area. Erosion and sedimentation affect water quality of receiving waters through interference with photosynthesis, oxygen exchange, and respiration, growth, and reproduction of aquatic species. Runoff from construction sites may include sediments and contaminants such as oils, fuels, paints, and solvents. Additionally, other pollutants such as nutrients, trace metals, and hydrocarbons can attach to sediment and be carried by stormwater into storm drains which discharge eventually to the Pacific Ocean.

Spills and mishandling of construction materials and waste may also potentially leave the project site and negatively impact water quality. The use of construction equipment and machinery may potentially result in contamination from petroleum products, hydraulic fluids, and heavy metals. Contamination from building preparation materials such as paints and solvents, and landscaping materials such as fertilizers, pesticides, and herbicides may also potentially degrade water quality

during project construction. Trash and demolition debris may also be carried into storm drains and discharged into receiving waters.

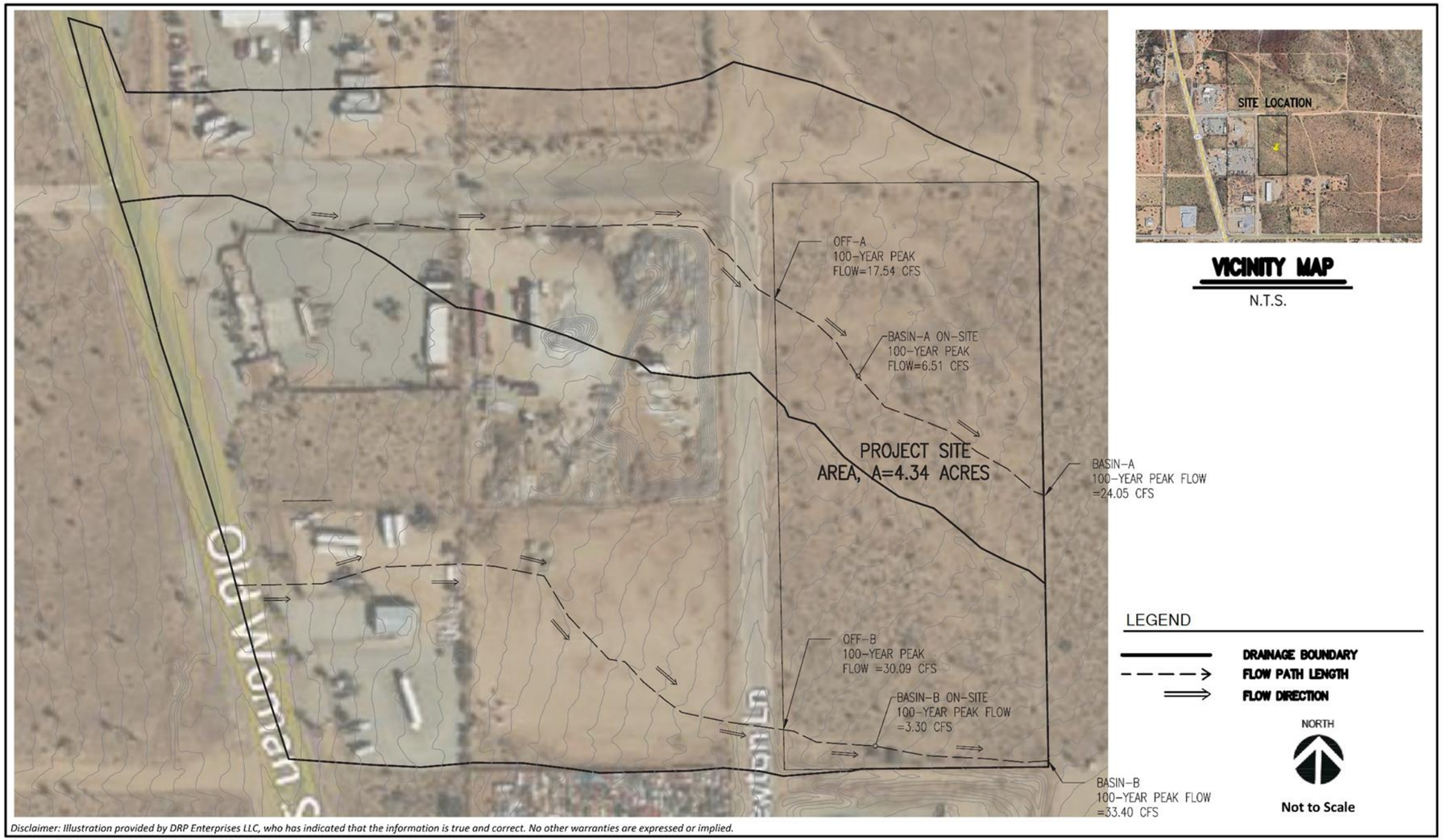
Figure 4.10-1
USGS SURFACE WATERS AND WATERSHEDS



Path: \\Gissvr\GIS\Projects\7335_SunMesa_SelfStorage\MXDs\BIO\7335_SunMesa_Surface_Water_11x17_2025_07_25.mxd
Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; USGS, 2022; UltraSystems Environmental, Inc., 2025.

July 28, 2025

Figure 4.10-2
EXISTING HYDROLOGY MAP



Disclaimer: Illustration provided by DRP Enterprises LLC, who has indicated that the information is true and correct. No other warranties are expressed or implied.

Source: DRP Enterprises LLC, August 3, 2022.

Sun Mesa Self-Storage Facility

Existing Condition Hydrology Map

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Construction Pollutants Control

Project construction could generate contaminants – including bacteria and viruses, metals, nutrients, pesticides, organic compounds, sediments, trash and debris, oil and grease, and oxygen-demanding substances – that could contaminate stormwater. Grading or construction operations under Town grading or construction permits are prohibited from allowing loose trash or debris to accumulate or to be carried offsite by wind or water; are required to contain trash and debris; and are required to provide for waste collection to prevent trash containers from overfilling, by Town Municipal Code Chapter 8.03, Construction Site Maintenance and Trash Containment (Codelibrary.amlegal.com, 2025). Construction, grading, excavation, and land clearing operations are required to use measures to minimize wind erosion under MDAQMD Rule 403 (MDAQMD, 2020c). Grading and construction activities pursuant to the General Plan Update would comply with existing laws and regulations aimed at minimizing or eliminating pollution of stormwater with trash and debris and pollution of air and water by dust (Town of Yucca Valley, 2014, p. 5.8-24). Construction water quality impacts would be less than significant after compliance with the above-specified municipal code chapter and regulations.

Note that while construction projects one acre or larger in much of California must obtain coverage under the Statewide General Construction Permit (SGCP) issued by the State Water Resources Control Board, the SGCP only applies to areas where receiving waters are Waters of the United States (WOUS).[14] Surface waters in Yucca Valley are not WOUS, and thus the SGCP does not apply to construction projects in Yucca Valley.

Operational Pollutant Controls

Project operation could generate the same categories of pollutants that project construction could generate. The project includes an infiltration basin in the southwest corner of the project site with capacity of 13,243 cubic feet. Infiltration basins are highly effective at removing sediment, nutrients, trash, metals, bacteria, oil and grease, and organics (CASQA, 2003, p. TC-11-1). Project operational water quality impacts would be less than significant.

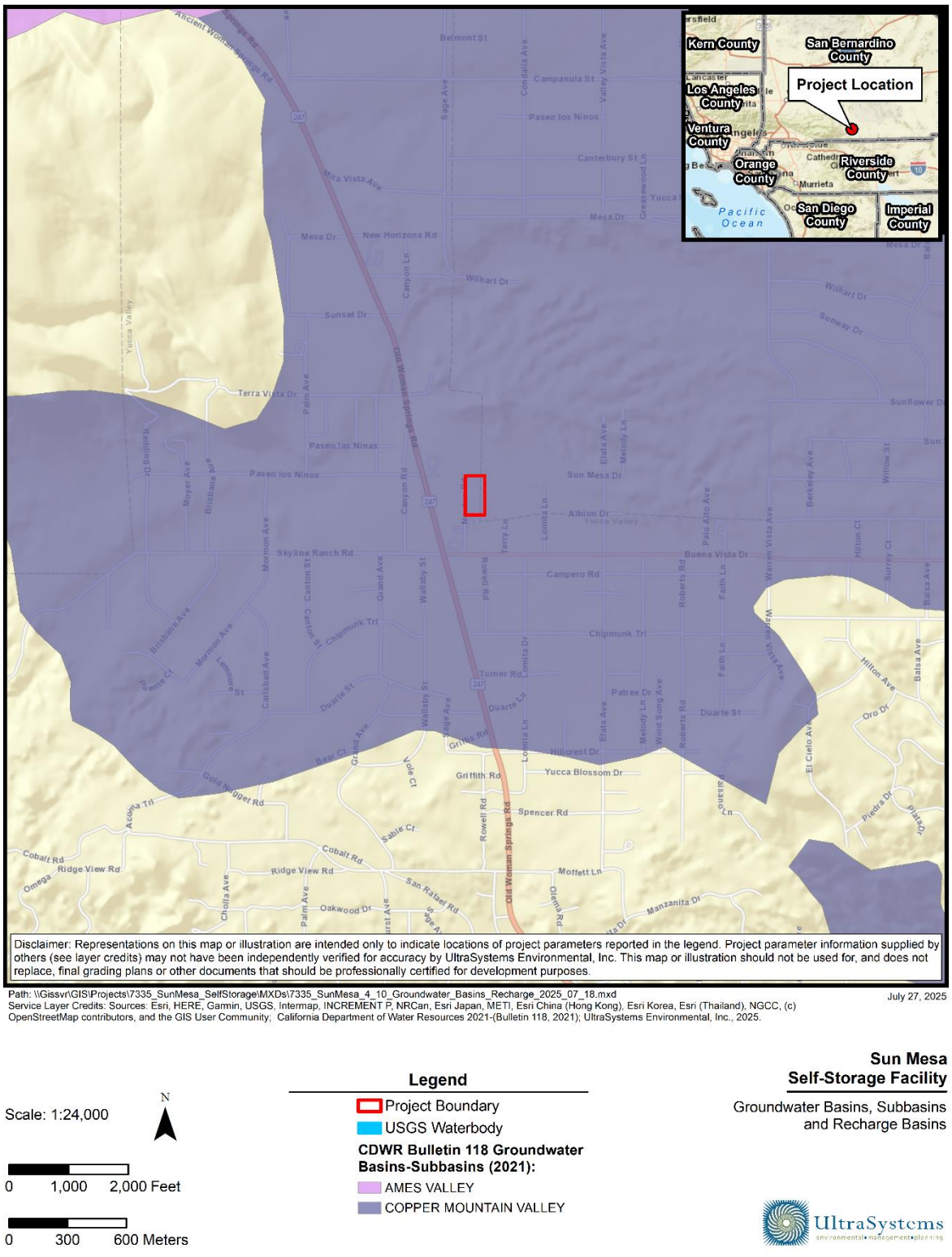
b) Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Less than Significant Impact

The project site is above the Copper Mountain Valley groundwater basin (CMVGWB), as shown on **Figure 4.10-3**. The Basin covers approximately 47 square miles in the north-central part of the Morongo Basin (DWR, 2003). While the project site is pervious, it is not used for intentional groundwater recharge.

[14] Waters of the U.S. include waters that are or have been used, or could be used, in interstate or foreign commerce; interstate waters including interstate wetlands; tributaries of those categories of waters; impoundments of any of the preceding categories of waters; territorial seas; and wetlands adjacent to those categories of waters (USEPA, 2025).

Figure 4.10-3
GROUNDWATER BASINS MAP



The project site is in the Hi-Desert Water District (HDWD) service area. HDWD water supplies are groundwater from the Warren Valley Groundwater Basin south of the CMVGWB, and the Ames Valley Groundwater Basin north of the CMVGWB (HDWD, 2021, p. 3-2). HDWD forecasts that it will have sufficient water supplies to meet demands in normal water year, single-dry-year, and multiple-dry-year conditions over the 2020-2040 period (HDWD, 2021, p. 5-2). Project operation is estimated to use about 2,243 gallons per day (gpd) of water based on a wastewater generation factor of 20 gpd per 1,000 square feet (City of Los Angeles, 2006); and taking water demand to be 125 percent of wastewater generation.

Project water demand would not substantially decrease groundwater supplies or interfere with groundwater recharge, and impacts would be less than significant.

c) Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) Result in substantial erosion or siltation on or offsite;

Less Than Significant Impact

The project site is divided into two drainage areas. Runoff from offsite portions of the project site (extending west from the site to SR-247) passes through the site, combining with runoff from the site, and continues eastward (DRP, 2024b, p. 7). The project site is in the Town of Joshua Tree sub-watershed.

Construction

The project site would be most susceptible to erosion during the construction phase, when soil is exposed, and before landscaped areas have been installed. To minimize the potential for water and wind erosion, the project would be required to obtain coverage under the Statewide General Construction Permit issued by the State Water Resources Control Board (Order No. 2022-0057-DWQ). Projects obtain coverage by developing and implementing a Stormwater Pollution Prevention Plan (SWPPP) estimating sediment risk from construction activities to receiving waters and specifying Best Management Practices (BMPs) that would be used by the project to minimize pollution of stormwater.

Construction BMPs are grouped in six categories: erosion control (prevents soil particles from being detached from soil surface), sediment control (prevents soil particles from being transported offsite by water and being deposited elsewhere), wind erosion control, tracking control (prevents soil from being tracked offsite by vehicles), non-stormwater management controls (prohibits discharges other than stormwater, such as those from cleaning, maintenance, and fueling of vehicles and equipment), and waste management and controls (good housekeeping practices) (CASQA, 2023). Construction impacts would be less than significant after implementation of erosion control and sediment control BMPs.

Operation

The project would be developed with a mix of impervious surfaces such as concrete and pavement and landscaped areas, including landscaping along the site boundary. The project includes drainage improvements consisting of two concrete ribbon gutters (i.e., shallow v-shaped concrete gutters,

typically in the medians of driveways or drive aisles) extending north-south – one through the middle of the site, and one near the east site boundary – and an infiltration basin in the southwest corner of the site. The design capture volume of the infiltration basin is 13,243 cubic feet (DRP, 2024b, p. 17). Infiltration basins are highly effective at removing sediment (CASQA, 2003, p. TC-11-1). The project would have less than significant impacts related to soil erosion or loss of topsoil and mitigation is not required.

ii) Substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or offsite;

iii) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?

Less than Significant Impact

The proposed infiltration basin would have capacity for runoff from the project site in post-project conditions; that is, 13,243 cubic feet. The site is estimated to be 90 percent impervious at project completion (DRP, 2024b, p. 17). Project development would not increase the rate or amount of runoff in a manner that would cause flooding on- or off-site.

Project stormwater quality impacts would be less than significant, as previously shown in the analysis under 4.10.a above.

iv) Impede or redirect flood flows?

No Impact

The project site is in Flood Hazard Zone X, meaning that it is outside of 100-year and 500-year flood zones (FEMA, 2022), as shown on **Figure 4.10-4**. The project site is located outside the nearest floodplain and the proposed project would not impede or redirect flood flows. No impact would occur, and mitigation is not required.

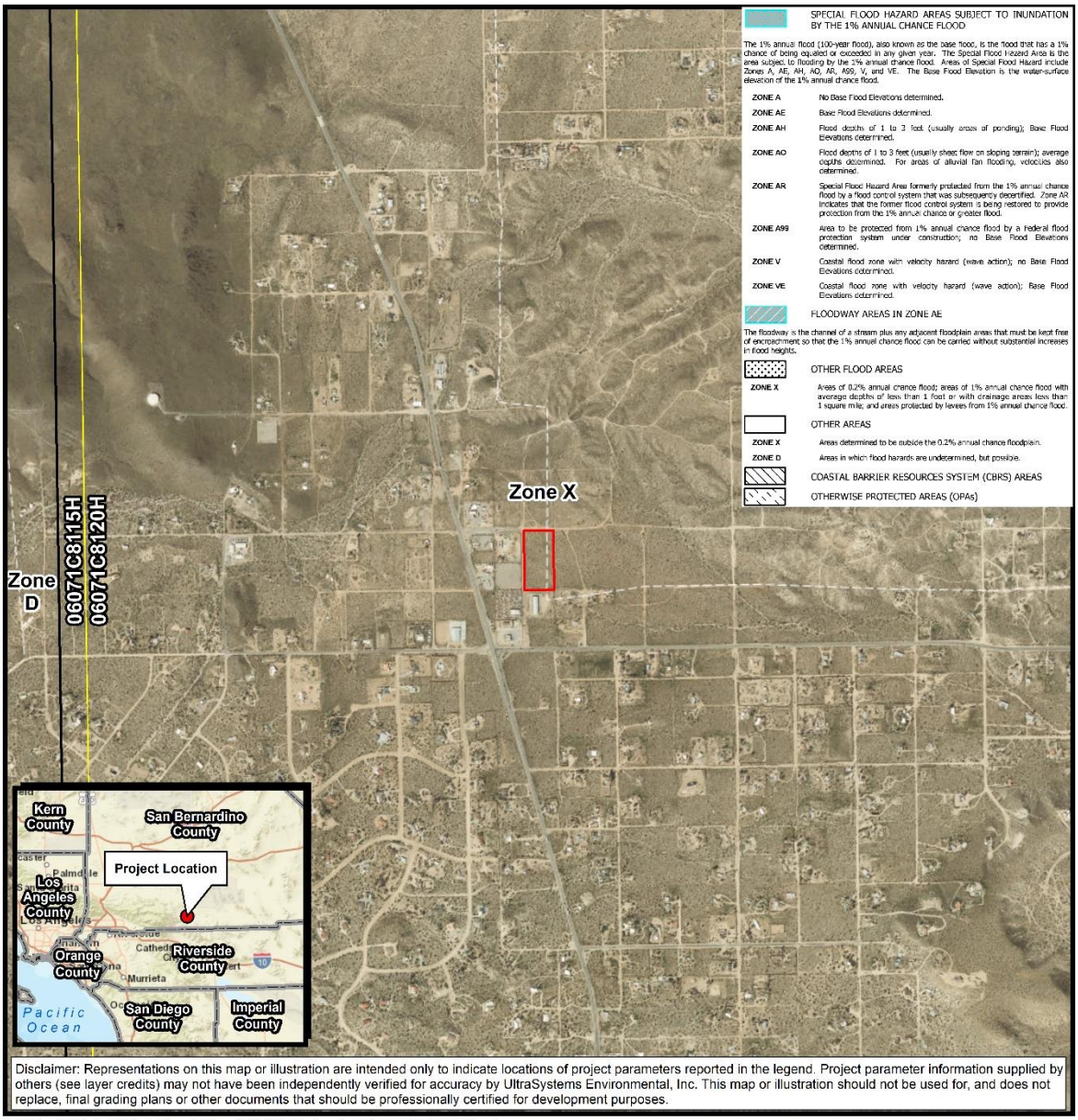
d) In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?

No Impact

The project site is not within any dam inundation areas mapped by the California Division of Safety of Dams (DWR, 2025). The project site is also not within any dam inundation areas mapped on the U.S. Army Corps of Engineers National Inventory of Dams (USACE, 2025). A seiche is a surface wave created when an inland water body is shaken, usually by an earthquake. No water bodies are near enough to the project site such that project development would risk release of pollutants due to flooding from a seiche or from dam inundation.

As discussed previously, the project site is located outside the 500-year floodplain and would not be at risk of inundation by flood hazards.

Figure 4.10-4
FLOOD HAZARD ZONES MAP



A tsunami is a series of ocean waves caused by a sudden displacement of the ocean floor, most often due to earthquakes. Several mountain ranges and topographical barriers are interposed between the project site and the Pacific Ocean; thus, the project is not at risk of flooding due to tsunamis.

No impact would occur.

e) Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

No Impact

The water quality control plan ("basin plan") in effect for the project region is that for the Colorado River Basin, issued by the Colorado River RWQCB in 2023. The project would comply with the basin plan through adherence with the Town of Yucca Valley Municipal Code Chapter 8.03; MDAQMD Rule 403; and construction, operation, and maintenance of the proposed infiltration basin.

No sustainable groundwater management plan has been prepared for the Copper Mountain Valley groundwater basin, and the basin is designated very low priority for development of such a plan (DWR, 2025a). No impact would occur.

4.11 Land Use and Planning

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Physically divide an established community?				X
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?				X

a) Would the project physically divide an established community?

No Impact

The project site is located to the southeast of the intersection of Newton Lane and Sun Mesa Drive in the Town of Yucca Valley. The surrounding area includes vacant desert land and sparse industrial development. The property directly to the north abuts the Sun Mesa dedication and dirt roadway; this adjacent lot is currently vacant. The parcel to the north is zoned as Industrial Mixed Use SPA. To the east, the neighboring parcel is commercially zoned and also vacant. The properties to both the south and west are developed with existing commercial uses. The site is currently undeveloped and does not function as a thoroughfare or access point between any residential areas. As such, development of the proposed self-storage facility would not physically divide an established community, and no impact would occur.

b) Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

No Impact

The project site has a General Plan land use designation of Industrial (I) (see **Figure 4.11-1**) and is zoned Industrial (see **Figure 4.11-2**) within the Rural Mixed Use Special Policy Area (SPA) of the Town of Yucca Valley as shown on the Town of Yucca Valley General Plan Land Use Map (Town of Yucca Valley, 2014. p. Figure LU-1).

The "Rural Mixed Use SPA" in the City of Yucca Valley is a specific zoning overlay that allows for a blend of rural and light industrial/commercial uses, including the potential for a single-family residence when associated with an industrial business. The SPA often functions as an overlay on areas already zoned for industrial use, allowing for the unique addition of a single-family residence when associated with a business on the same property (Town of Yucca Valley, 2014. p. 2-22).

The proposed self-storage facility is consistent with the intent of the SRA. The project does not include residential or sensitive uses and is designed to maintain compatibility with adjacent developments. The project would not conflict with the land use goals or policies established for the Mixed Uses SRA and would represent an appropriate use that aligns with the Town's long-term land use planning objectives. Therefore, the project would have no impact in this regard.

Figure 4.11-1
GENERAL PLAN LAND USE DESIGNATION

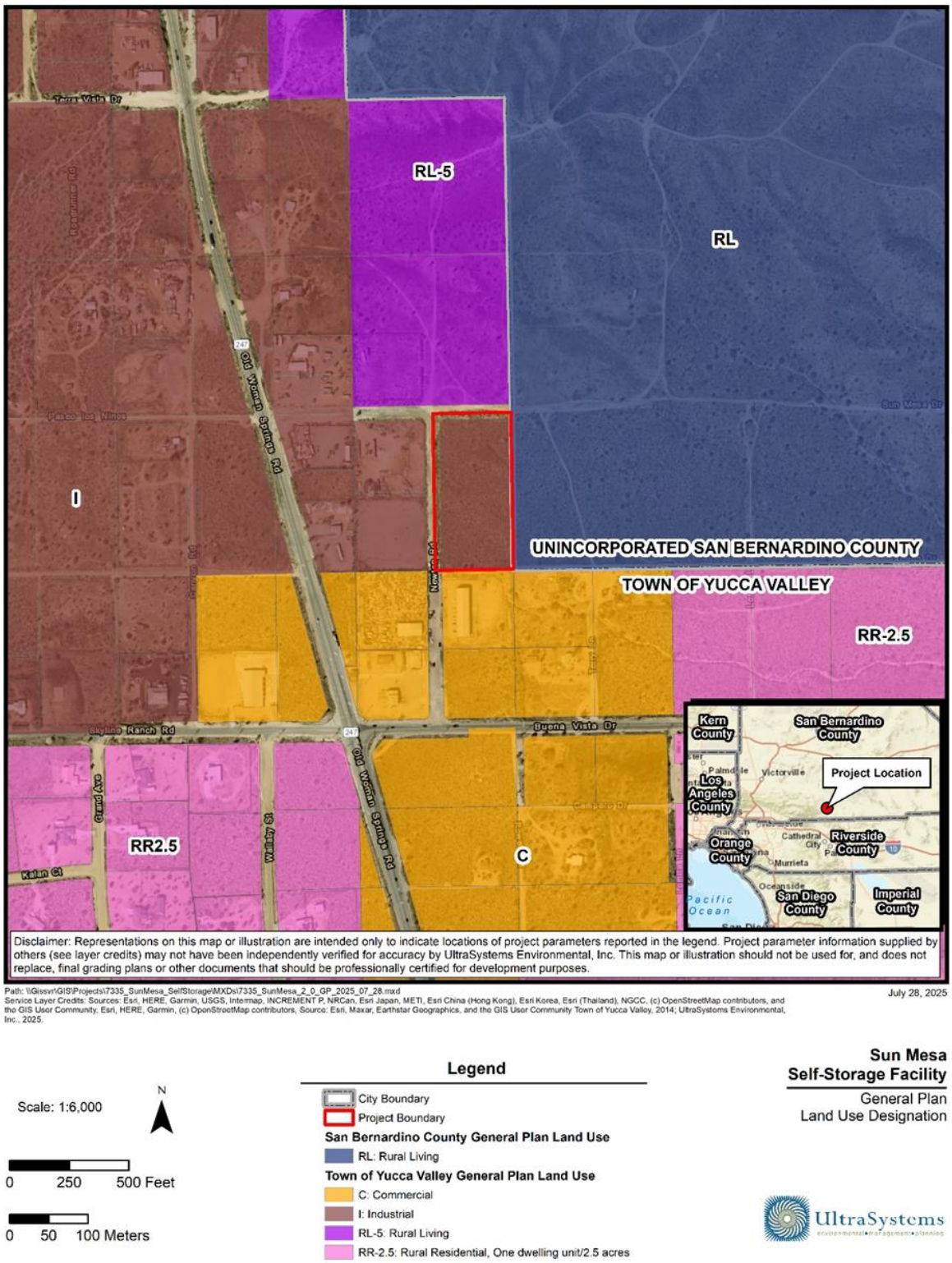
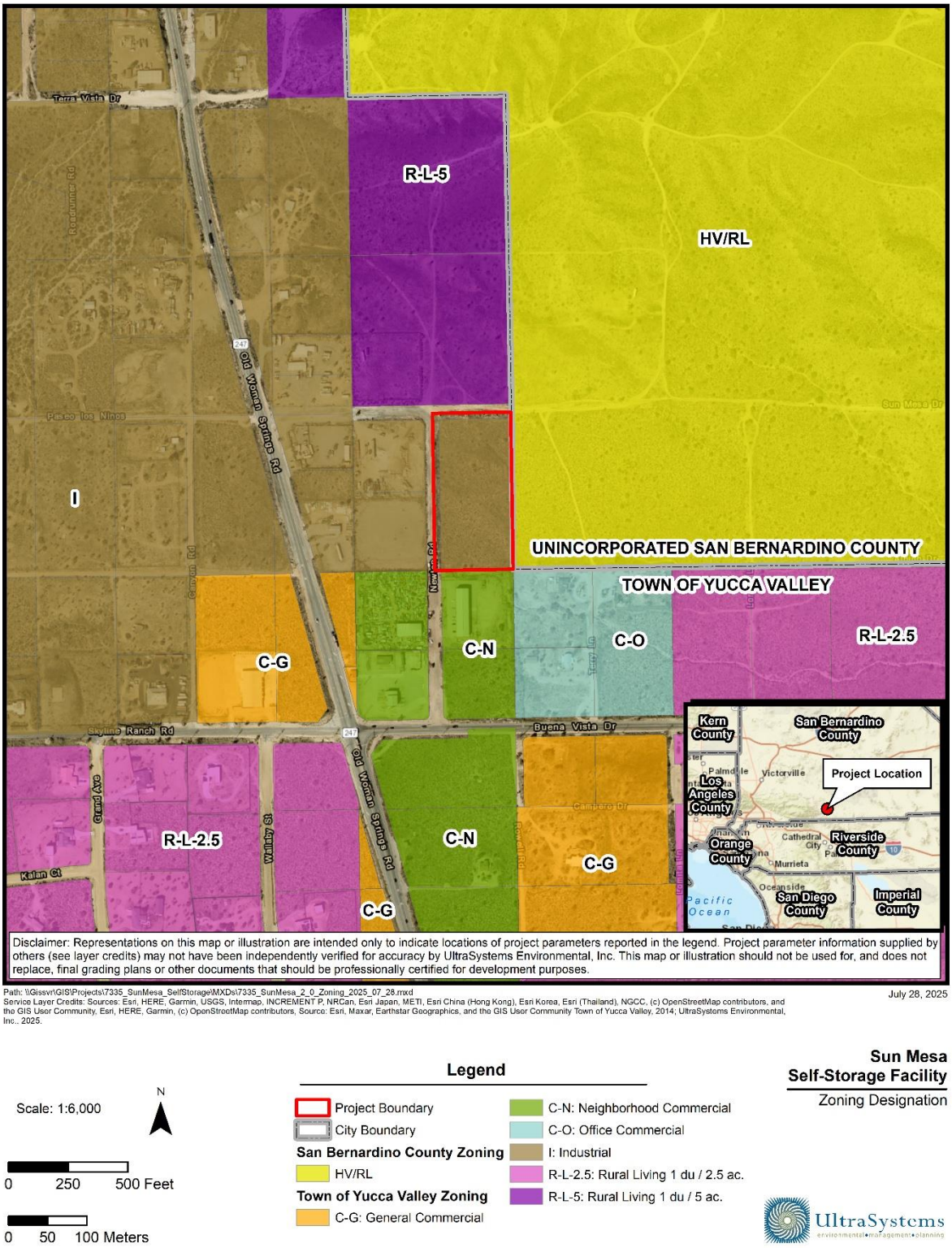


Figure 4.11-2
ZONING DESIGNATION



Under CEQA, a conflict may be significant if the project would conflict with an applicable land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. For the Town's General Plan Land Use Element, applicable provisions include:

- Policy LU 1-1 Encourage infill development to maximize the efficiency of existing and planned: Although the project is not considered infill, it would not conflict with Policy LU 1-1 because it would be developed within the Town's existing service context and would not require extension of major public utilities (e.g., it would use an on-site septic system rather than new sewer trunk extensions). In addition, the required frontage improvements along Newton Lane and Sun Mesa Drive (e.g., paving and associated curb/gutter/sidewalk improvements where required) would enhance the efficiency and safety of existing and planned local circulation infrastructure serving the site, consistent with the intent of maximizing efficiency of services, facilities, and infrastructure under LU 1-1.

- Policy LU 1-2 Require that adjacent land uses and development types complement one another: : A self-storage facility is typically a low-occupancy, low-intensity use that can be designed to complement surrounding commercial/industrial uses, consistent with Policy LU 1-2.

- Policy LU 1-16 Require high quality building design, property maintenance, amenities for pedestrian access, and adequate circulation, utilities, and infrastructure: The project would be consistent with Policy LU 1-16 because it includes a planned site layout that can be conditioned through the Town's development review process to meet high-quality building design and ongoing property maintenance standards, and it incorporates features that support pedestrian access and circulation. The project also provides adequate infrastructure and circulation improvements through required frontage improvements (e.g., paving and associated curb/gutter/sidewalk improvements where required) along Newton Lane and Sun Mesa Drive, and internal drive aisles that facilitate vehicle and emergency access. Utilities and infrastructure would be provided through standard utility connections and an on-site septic system designed to applicable County requirements, ensuring adequate service without requiring off-site wastewater extensions.

Table 4.11-1
LAND USE CONSISTENCY ANALYSIS

Goal / Policy	Consistency Analysis
GOAL LU 1: A balanced mixture of integrated land uses that provide desirable neighborhoods, vibrant commercial districts, passive and active open spaces, a strong economic and employment base, appropriate public facilities and services, and fiscal sustainability.	
General Policies	
Policy LU 1-1: Encourage infill development to maximize the efficiency of existing and planned public services, facilities, and infrastructure.	**Consistent.** The project is a proposed development within an existing industrially zoned area, maximizing use of existing roads and utilities on Newton Lane and Sun Mesa Drive and proposing improvements where necessary.
Policy LU 1-2: Require that adjacent land uses and development types complement one another.	**Consistent.** The proposed self-storage use is low-impact and compatible with industrial zoning; it includes perimeter fencing and landscaping to visually buffer any adjacent residential or commercial areas.

Goal / Policy	Consistency Analysis
Policy LU 1-3: Require new projects to pay their fair share cost of or make necessary improvements to public facilities, infrastructure, and services that are impacted by the demands generated by new development.	**Consistent.** The project includes off-site road improvements, water connections, septic system and fire access per Town requirements, fulfilling obligations for infrastructure impact mitigation.
Policy LU 1-5: Encourage land use development patterns that preserve the Town's scenic resources, such as ridgelines and hillsides.	**Consistent.** The site is in a flat, previously disturbed area and avoids visual intrusion on ridgelines or hillsides.
Commercial and Industrial Policies	
Policy LU 1-15: Maintain Yucca Valley's position as the economic hub of the Morongo Basin. Support a broad range of commercial retail, service, office, business park, research and development, light industrial, and industrial uses to provide employment opportunities and contribute to the Town's economic sustainability.	**Consistent.** The self-storage facility contributes to the industrial sector with low-trip generating, clean operations and is consistent with the economic hub vision for Yucca Valley.
Policy LU 1-16: Require high quality building design, property maintenance, amenities for pedestrian access, and adequate circulation, utilities, and infrastructure.	**Consistent.** The self-storage facility contributes to the industrial sector with low-trip generating, clean operations and is consistent with the economic hub vision for Yucca Valley.
Policy LU 1-17: Encourage the renovation of existing commercial and industrial areas to improve appearance, environmental responsiveness, use of infrastructure, and functionality.	**Consistent.** The project transforms an underutilized parcel into a well-designed, functional facility with upgraded utilities and roads.
Policy LU 1-18: Locate industrial uses near commercial uses when feasible to create synergy between the uses and established business nodes.	**Consistent.** Although not adjacent to commercial zones, the facility supports business operations needing offsite storage, indirectly supporting commercial functionality.
Policy LU 1-20: Focus commercial development along SR-62 to take advantage of infrastructure improvements.	**Consistent.** While not directly on SR-62, the site is within a nearby industrial area that complements the corridor by supporting non-retail uses that reduce traffic impacts.
Policy LU 1-22: Attract and retain nonpolluting, clean industrial development that expands the economic opportunities in the Town.	**Consistent.** The project is a clean, non-polluting facility with no hazardous operations.
Policy LU 1-23: Adequately buffer or otherwise ensure compatibility between commercial and industrial uses and residential areas (See also Policy LU 1-17).	**Consistent.** The site includes six-foot masonry walls and landscaping to buffer any adjacent uses, ensuring visual and operational compatibility.
Policy LU 1-24: Plan for the adequate and logical expansion of public facilities that are compatible with surrounding land uses, reflect community character, are educationally enriching, and meet a broad range of local needs.	**Consistent.** Utility extensions and road improvements are compatible with the surrounding land uses and support logical service expansion.

Goal / Policy	Consistency Analysis
Policy LU 1-26: Seek opportunities to collaborate with other public/quasi-public organizations in an effort to build new facilities to meet demand or develop joint use facilities.	**Consistent.** While the self-storage project is privately developed and does not directly involve shared public facilities, it supports local service needs (e.g., small businesses, transitional residential storage) and indirectly reduces demand on public space. Opportunities for collaboration—such as emergency access agreements with local fire services or shared utility infrastructure—can be explored during final project approvals to align with this policy.

4.12 Mineral Resources

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?				**X**
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?				**X**

a) Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?

b) Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan?

No Impact

The proposed project site encompasses approximately 4.34 acres at the southeast corner of Newton Lane and Sun Mesa Drive in the Town of Yucca Valley (APN: 0597-111-67). The site has a General Plan Land Use Designation of Industrial and is zoned Industrial (I), which permits a range of employment and service-oriented uses, including light manufacturing, warehousing, and related activities. While this zoning supports industrial development, neither the Town of Yucca Valley's General Plan nor zoning regulations identify the site or surrounding parcels as designated for mineral resource extraction or conservation (Town of Yucca Valley, 2014).

According to the Mineral Land Classification of San Bernardino County by the California Geological Survey (CGS, 2020), the site is not located within a Mineral Resource Zone 2 (MRZ-2)—an area identified as containing regionally significant mineral deposits. The site is not designated within any SMARA-regulated mineral resource overlay, as defined under the California Surface Mining and Reclamation Act (SMARA; Public Resources Code §§ 2710–2796). Therefore, the project site is not subject to conservation requirements or mineral resource impact findings pursuant to CEQA Guidelines Appendix G or Public Resources Code § 21100(d).

Figure 4.12-1, Geothermal Wells, and **Figure 4.12-2, Oil and Gas Wells** indicate there are no active wells on or near the project site. The site is located in an industrial part of Yucca Valley and is not near any active mining operations, Aggregate Resource Areas, or Bureau of Land Management for designated mining claims. Chapter 5.11 of the San Bernardino Countywide Plan identifies mineral resource protection priorities primarily in unincorporated areas of the county where mining remains economically feasible. The subject property is outside those identified zones.

Development of the proposed self-storage facility, consistent with the site's Industrial zoning designation, would not obstruct or remove access to any known mineral resources of regional or statewide importance. Furthermore, the site is not identified as a locally important mineral resource recovery area in any local general plan, specific plan, or other land use plan. Therefore, the project would not result in the loss of availability of a significant mineral resource, and no impact would occur.

Figure 4.12-1
GEOTHERMAL WELLS

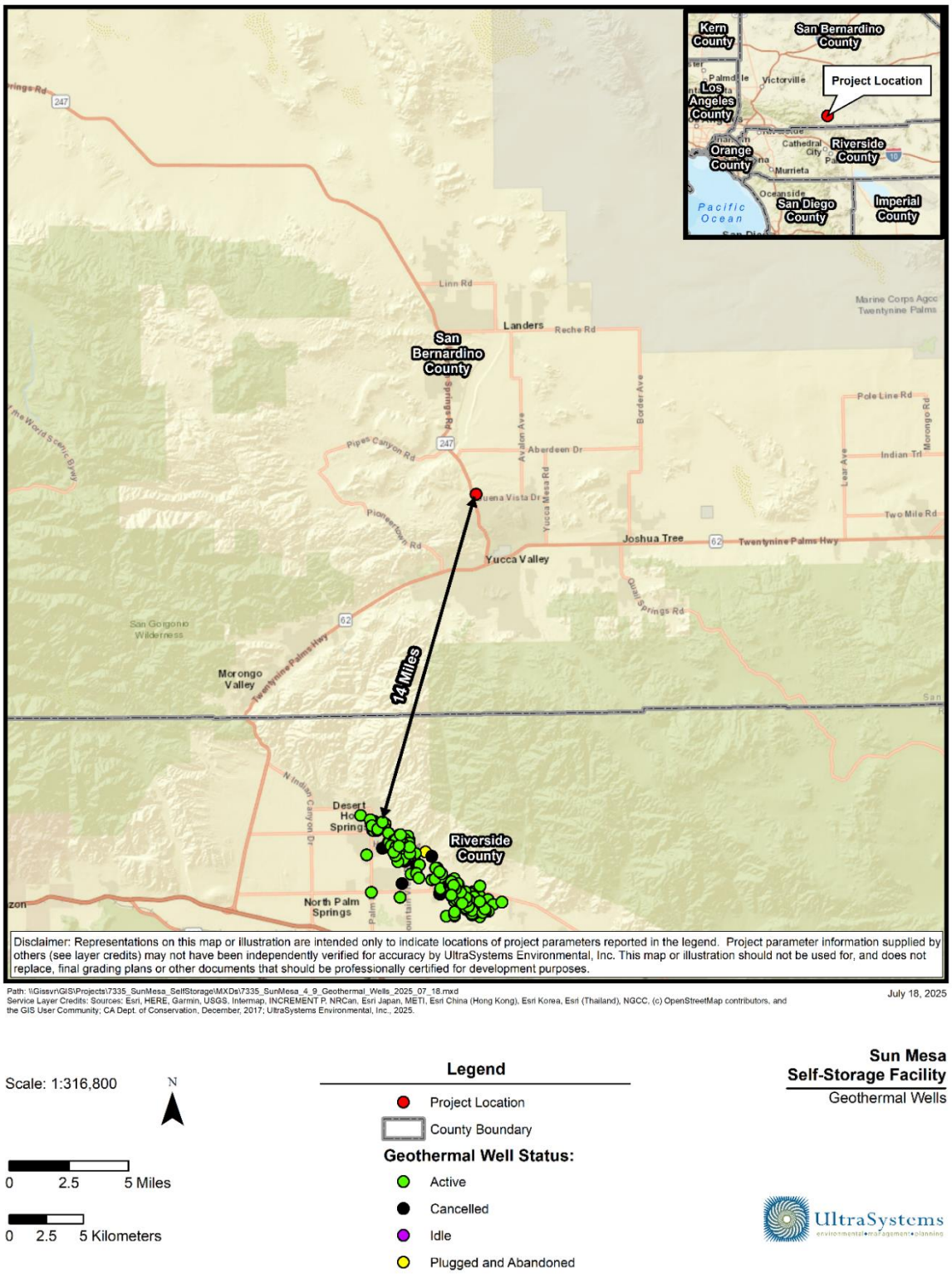
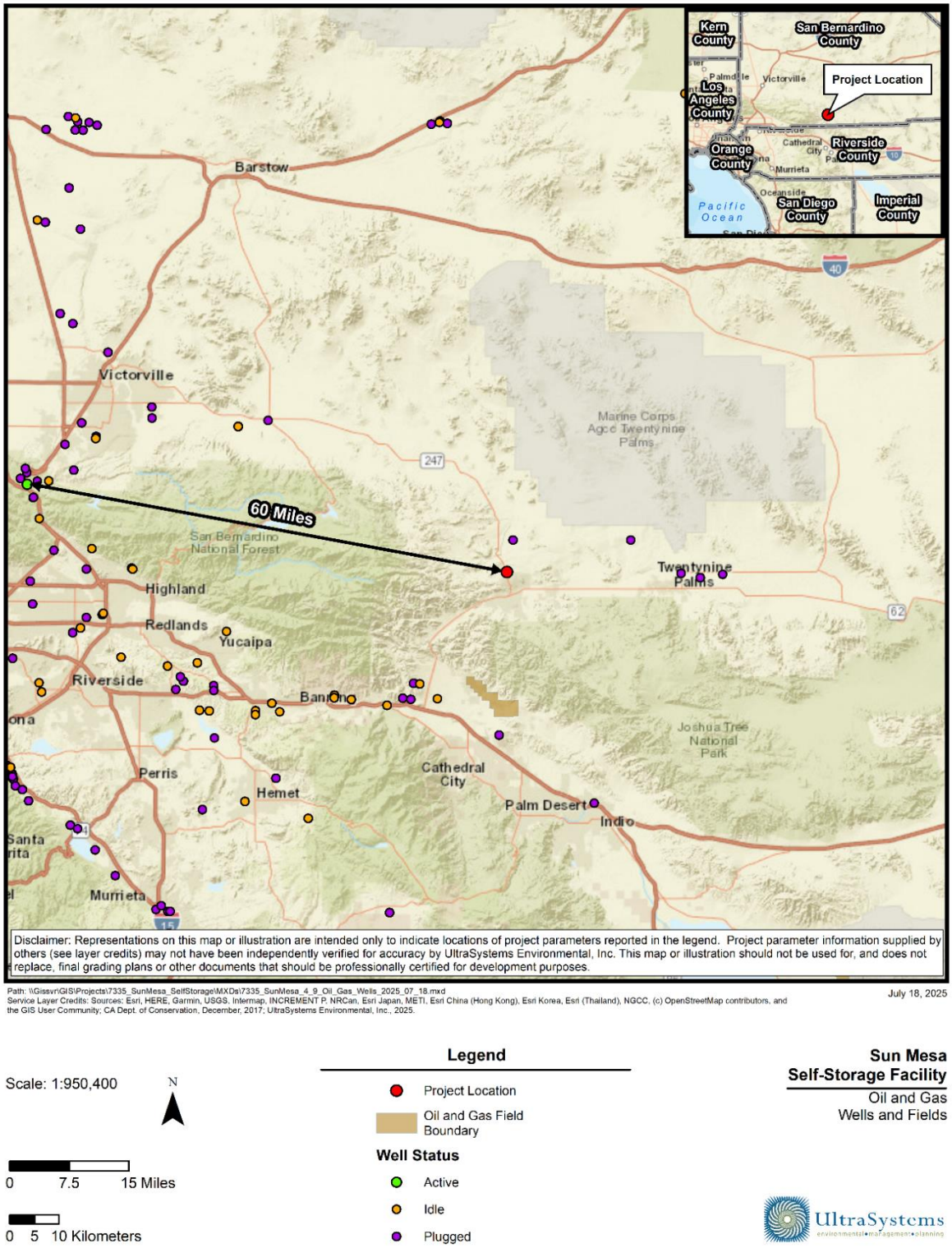


Figure 4.12-2
OIL AND GAS WELLS



4.13 Noise

Would the project result in:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?			X	
b) Generation of excessive groundborne vibration or groundborne noise levels?			X	
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?				X

4.13.1 Characteristics of Sound

Sound is a pressure wave transmitted through the air. It is described in terms of loudness or amplitude (measured in decibels), frequency or pitch (measured in hertz or cycles per second), and duration (measured in seconds or minutes). The decibel (dB) scale is a logarithmic scale that describes the physical intensity of the pressure vibrations that make up any sound. The pitch of the sound is related to the frequency of the pressure vibration. Because the human ear is not equally sensitive to all frequencies, a special frequency-dependent rating scale is used to relate noise to human sensitivity. The A-weighted decibel scale (dBA) provides this compensation by discriminating against upper and lower frequencies in a manner approximating the sensitivity of the human ear. The scale is based on a reference pressure level of 20 micro pascals (zero dBA). The scale ranges from zero (for the average least perceptible sound) to about 130 (for the average human pain level).

4.13.2 Noise Measurement Scales

Several rating scales have been developed to analyze adverse effects of community noise on people. Since environmental noise fluctuates over time, these scales consider that the effect of noise on people depends largely upon the total acoustical energy content of the noise, as well as the time of day when the noise occurs. Those that are applicable to this analysis are as follows:

- L_{eq}, the equivalent noise level, is an average of sound level over a defined time period (such as 1 minute, 15 minutes, 1 hour or 24 hours). Thus, the L_{eq} of a time-varying noise and that of a steady noise are the same if they deliver the same acoustic energy to the ear during exposure.
- L_{90} is a noise level that is exceeded 90 percent of the time at a given location; it is often used as a measure of "background" noise.

- L_{max} is the root mean square (RMS) maximum noise level during the measurement interval. This measurement is calculated by taking the RMS of all peak noise levels within the sampling interval. L_{max} is distinct from the peak noise level, which only includes the single highest measurement within a measurement interval.
- CNEL, the Community Noise Equivalent Level, is a 24-hour average L_{eq} with a 4.77-dBA "penalty" added to noise during the hours of 7:00 p.m. to 10:00 p.m., and a 10-dBA penalty added to noise during the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity in the evening and nighttime (Hendriks, 2013). The logarithmic effect of these additions is that a 60-dBA 24-hour L_{eq} would result in a calculation of 66.7 dBA CNEL.
- L_{dn}, the day-night average noise, is a 24-hour average L_{eq} with an additional 10-dBA "penalty" added to noise that occurs between 10:00 p.m. and 7:00 a.m. The L_{dn} metric yields values within 1 dBA of the CNEL metric. As a matter of practice, L_{dn} and CNEL values are considered to be equivalent and are treated as such in this assessment.

4.13.3 Existing Noise

The following discussion is based largely on a memorandum prepared by LSA Associate Inc. (LSA), Noise and Vibration Impact Analysis for the Sun Mesa (Billings) Mini Storage Project, Yucca Valley, San Bernardino County, California (LSA, 2024a) included as **Appendix H**.

The primary existing noise sources in the project area are transportation facilities and industrial activities. Traffic on SR-247, Buena Vista Drive, Sun Mesa Drive, and Newton Lane contributes to the ambient noise levels in the project vicinity. Industrial uses are located immediately west and south of the project site. Existing land uses within the project area include single-family residences, vacant land, and industrial uses. Single-family residences are located southeast of the project site. Industrial uses are located south and west of the project site. Vacant land is located north and east of the project site.

LSA conducted two long-term (24-hour) noise level measurements from July 9 to July 10, 2024, and one long-term (24-hour) noise level measurement from July 10 to July 11, 2024, using Larson Davis Spark 706RC dosimeters to document the existing noise environment within the project area. Table G in the LSA technical report summarizes the results of the long-term noise level measurements along with a description of the measurement locations and noise sources that occurred during the measurements. As shown in Table G (**Appendix H,** page 9), daytime noise levels ranged from 40.7 to 63.1 dBA Leq and nighttime noise levels ranged from 43.1 to 53.5 dBA Leq. Also, the calculated CNEL levels at LT-1, LT-2, and LT-3 were 57.3, 57.7, and 57.9 dBA Leq, respectively.

4.13.4 Regulatory Setting

State of California

The California Department of Health Services (DHS) Office of Noise Control has studied the correlation of noise levels with effects on various land uses. (The Office of Noise Control no longer exists.) The most current guidelines prepared by the state noise officer are contained in the "General Plan Guidelines" issued by the Governor's Office of Planning and Research in 2003 and reissued in 2017 (Governor's Office of Planning and Research, 2017). These guidelines establish four categories for judging the severity of noise intrusion on specified land uses:

- **Normally Acceptable**: Is generally acceptable, with no mitigation necessary.

- **Conditionally Acceptable**: May require some mitigation, as established through a noise study.
- **Normally Unacceptable**: Requires substantial mitigation.
- **Clearly Unacceptable**: Probably cannot be mitigated to a less-than-significant level.

The types of land uses addressed by the state standards, and the acceptable noise categories for each, are presented in **Table 4.13-1**. There is some overlap between categories, which indicates that some judgment is required in determining the applicability of the numbers in a given situation.

Table 4.13-1
CALIFORNIA LAND USE COMPATIBILITY FOR COMMUNITY NOISE SOURCES

	Noise Exposure (dBA, CNEL)						
	55	60	65	70	75	80	
Residential – Low-Density Single-Family, Duplex, Mobile Homes							
Residential – Multiple Family							
Transient Lodging – Motel, Hotels							
Schools, Libraries, Churches, Hospitals, Nursing Homes							
Auditoriums, Concert Halls, Amphitheaters							
Sports Arena, Outdoor Spectator Sports							
Playgrounds, Neighborhood Parks							
Golf Courses, Riding Stables, Water Recreation, Cemeteries							
Office Buildings, Business Commercial and Professional							
Industrial, Manufacturing, Utilities, Agriculture							

	Noise Exposure (dBA, CNEL)
	Normally Acceptable: Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.
	Conditionally Acceptable: New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply system or air conditioning will normally suffice.
	Normally Unacceptable: New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.
	Clearly Unacceptable: New construction or development should generally not be undertaken.

Source: Governor's Office of Planning and Research, 2017.

Town of Yucca Valley General Plan Noise Element

The Town's General Plan Noise Element (Town of Yucca Valley, 2014) has established policies to meet the Town's noise-related goal. The applicable policies for the proposed project are listed below.

Goal N1: A noise environment where excessive noise from stationary, transportation related, and temporary sources of noise are appropriately managed.

> **Policy N 1-3:** Require daytime only truck deliveries to commercial and industrial uses adjacent to residential uses and other sensitive receptors unless there is no feasible alternative.
>
> **Policy N 1-13:** Enforce Town noise standards and monitor compliance with noise standards.
>
> **Policy N 1-18:** Enforce standards on the hours of operation for nonemergency construction.

Town of Yucca Valley Municipal Code

Section 9.34.080(B) of the Town's Municipal Code establishes noise standards for stationary and mobile noise sources affecting adjacent properties. Table E shows the exterior noise standards for stationary noise sources, and Table F shows the exterior and interior noise standards for mobile noise sources.

4.13.5 Significance Thresholds

Two criteria were used for analyzing noise impacts. First, noise levels generated by the proposed project must comply with all applicable relevant federal, state, and local standards and regulations. Noise impacts on the surrounding community are limited by local noise ordinances, which are implemented through investigations in response to nuisance complaints. It is assumed that all existing regulations for the construction and operation of the proposed project will be enforced. In addition, the proposed project should not produce noise levels that are incompatible with adjacent noise-sensitive land uses.

The second measure of impact used in this analysis is a significant increase in noise levels above existing ambient noise levels as a result of the introduction of a new noise source. An increase in noise level due to a new noise source has a potential to adversely impact people. The proposed project would have a significant noise impact if it would:

- Expose persons to or generate noise levels in excess of standards prescribed by the Town of Yucca Valley Municipal Code.
- Include construction activities within the hours prohibited by the Municipal Code, without a permit.
- Expose nearby sensitive receivers to construction noise greater than the FTA 80 dBA threshold (FTA, 2018).
- Contribute, with other local construction projects, to a significant cumulative noise impact.
- Increase operational exposures at sensitive receivers (mainly because of an increase in traffic flow) by 5 dBA L_{eq} or more.

4.13.6 Impact Analysis

a) Would the project result in generation of substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Less than Significant Impact

Noise impacts associated with storage facilities include short-term and long-term impacts. Construction activities, especially heavy equipment operation, would create noise effects on and adjacent to the construction site. Long-term noise impacts include project-generated onsite and offsite operational noise sources. Onsite (stationary) noise sources from the storage facility would include operation of mechanical equipment such as air conditioners, landscape and building maintenance. Offsite noise would be attributable to project-induced traffic, which would cause an incremental increase in noise levels within and near the project vicinity.

Construction

Noise impacts from construction activities are a function of the noise generated by the operation of construction equipment and on-road delivery and worker commuter vehicles, the location of equipment, and the timing and duration of the noise-generating activities. For the purpose of this

analysis, it was estimated that the proposed project would start in January 2026 and would take anywhere from six to eight months to complete the first two phases.

The types and numbers of pieces of equipment to be deployed during each construction phase were determined as part of the air quality and greenhouse gas emissions analyses for this project.[15] For each equipment type, **Table I** of the LSA technical report shows a summary of construction phase, equipment and noise levels for the project.

Using calculation methods published by the Federal Transit Administration (FTA 2018), LSA estimated the average hourly exposures at the nearest sensitive receiver for each construction subphase. The receivers evaluated included single-family residences along the north side of the project site and single-family houses along the southwest side of the project site. The distances used for the calculation were measured from the receivers to the approximate center of activity of each construction phase, since that would be the average location of construction equipment most of the time.

The closest residential property line is approximately 375 feet from the center of the project site and may be subject to short-term construction noise reaching 71.0 dBA L_{eq}. Construction noise is temporary and would stop once project construction is completed. Compliance with the Town's hours of construction pursuant to § 9.34.080(F)(3) of the Town's Municipal Code listed below would ensure construction-related noise would not be generated during the more sensitive nighttime hours. Furthermore, construction related noise levels would be below the FTA noise level standard of 80 dBA L_{eq} for residential uses.

Therefore, noise levels generated from project construction would be less than significant. No mitigation measures are required.

Operational Noise

Onsite

Onsite operational stationary noise would include parking activities and heating, ventilation, and air conditioning (HVAC) equipment. Noise generated from parking lot activities would include noise generated by vehicles traveling at slow speeds, engine start-up noise, car door slams, car horns, car alarms, and tire squeals (LSA, 2024a, pp. 13-14). Noise levels generated from project operations during daytime and nighttime hours at the closest residential property line would reach up to a combined stationary noise level of 38.2 and 35.4 dBA L_{eq}, respectively. Also, maximum noise levels generated from project operations during both daytime and nighttime hours at the closest residential property line would reach up to 51.5 dBA L_{max} (LSA, 2024a, p. 14). This maximum noise level would not exceed the Town's daytime and nighttime maximum noise standards of 55 dBA and 45 dBA for residential uses, respectively (LSA, 2024a, p. 7).

Mobile Sources

According to the *Sun Mesa Mini Storage Project Trip Generation and Vehicle Miles Traveled Memorandum* (LSA, 2024b) in **Appendix I**, the project is estimated to generate an average daily traffic (ADT) volume of 137. The existing ADT volume on SR-247 ranges between 2,950 and 11,837 according to the 2022 Caltrans Annual Average Daily Truck Traffic for Truck Traffic on California

[15] See **Section 4.3** and **Section 4.8**.

State Highways (Caltrans 2022). Also, the existing ADT volume on Buena Vista Drive is 3,643 based on the Yucca Valley General Plan Update Environmental Impact Report (Town of Yucca Valley, 2014). In addition, Sun Mesa Drive is a two-lane road similar to Buena Vista Drive and would experience a similar noise increase. It takes a doubling of traffic to increase traffic noise levels by 3 dBA, which represents the threshold change in noise level that is perceptible to the human ear. Based on the information above, project-related traffic on SR-247, Buena Vista Drive, and Sun Mesa Drive would increase traffic noise levels by up to 0.2 dBA. A noise level increase of less than 1 dBA would not be perceptible to the human ear. Therefore, no traffic noise impacts from project-related traffic on off-site sensitive receptors would occur. No mitigation measures are required.

b) Would the project result in generation of excessive groundborne vibration or groundborne noise levels?

Less than Significant Impact

Vibration is sound radiated through the ground. It can result from a source (e.g., subway operations, vehicles, machinery equipment, etc.) causing the adjacent ground to move, thereby creating vibration waves that propagate through the soil to the foundations of nearby buildings. This effect is referred to as groundborne vibration. The peak particle velocity (PPV) or the RMS velocity is usually used to describe vibration levels. PPV is defined as the maximum instantaneous peak of the vibration level, while RMS is defined as the square root of the average of the squared amplitude of the level. PPV is typically used for evaluating potential building damage, while RMS velocity in dB is typically more suitable for evaluating human response.

The background vibration velocity level in residential areas is usually around 50 vibration decibels (VdB). The vibration velocity level threshold of perception for humans is approximately 65 VdB. A vibration velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels for most people. Most perceptible indoor vibration is caused by sources within buildings such as operation of mechanical equipment, movement of people, or the slamming of doors. Typical outdoor sources of perceptible groundborne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the groundborne vibration from traffic is rarely perceptible. The range of interest is from approximately 50 VdB to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings.

Construction Vibration

Construction activities for the project have the potential to generate low levels of groundborne vibration. The operation of construction equipment generates vibrations that propagate though the ground and diminish in intensity with distance from the source. Vibration impacts can range from no perceptible effects at the lowest vibration levels, to low rumbling sounds and perceptible vibration at moderate levels, to slight damage of buildings at the highest levels. The construction activities associated with the project could have an adverse impact on both sensitive structures (i.e., building damage) and populations (i.e., annoyance).

Table K in the LSA noise memorandum lists the projected vibration levels from various types of construction equipment expected to be used on the project site at the project construction boundary to the nearest buildings in the project vicinity. As shown in Table K, the residential and industrial buildings to the southeast and south of the project site are approximately 200 feet and 80 feet from the project construction boundary respectively and would experience a vibration level of up to 0.004 PPV (in/sec) and 0.016 PPV (in/sec), respectively. These vibration levels would not result in building

damage because residential and industrial buildings would be constructed equivalent to or better than nonengineered timber and masonry, and vibration levels would not exceed the FTA vibration damage threshold of 0.20 PPV (in/sec). Other building structures that surround the project site would experience lower vibration levels because they are located further away.

Operational Vibration

The proposed project would not generate operational vibration. In addition, vibration levels generated from project-related traffic on the roadways (SR-247, Buena Vista Drive, Sun Mesa Drive, and Newton Lane) leading to the project site are unusual for on-road vehicles because the rubber tires and suspension systems of on-road vehicles provide vibration isolation. Vibration generated from operations of the project would be minimal to negligible and would not exceed the Town's vibration standard of 0.2 in/sec. Therefore, vibration impacts from project-related operations would be less than significant. No mitigation measures are required.

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

No Impact

The closest public airport to the project site is Yucca Valley Airport, which is 2.5 miles southeast of the project site. Based on the *Airport Comprehensive Land Use Plan for Yucca Valley Airport* (San Bernardino County 1992), the project site is well beyond the 60 dBA CNEL noise contour. Also, there are no private airstrips within two miles of the project site. Therefore, the project would not expose people working in the project vicinity to aviation-related excessive noise levels. Impacts would not be significant.

4.14 Population and Housing

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?				**X**
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?				**X**

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

No Impact

The proposed project entails the development of a self-storage facility consisting of approximately 541 storage units, a manager's office, parking areas, and associated landscaping on an approximately 4.34-acre site in the Town of Yucca Valley. The project does not include residential units or commercial uses that would accommodate a residential workforce. The staffing requirements are minimal and would not generate housing demand or population influx.

Additionally, although the project includes utility connections and limited road improvements (half-width improvements to Newton Lane), these upgrades are typical infrastructure improvements necessary to serve the proposed project and are not designed or sized to facilitate broader regional development. No new roadways or major infrastructure extensions beyond what is required for the project's internal circulation and direct access are proposed. Therefore, the project would not directly or indirectly induce substantial unplanned population growth and there is no impact.

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

No Impact

The proposed project site is currently vacant and does not contain any existing residential structures or occupied housing. As such, implementation of the proposed self-storage facility would not displace any residents or existing housing units. There would be no need for construction of replacement housing, no displacement-related impacts would occur, and there is no impact.

4.15 Public Services

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, the need for new or physically altered governmental facilities, construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:				
a) Fire protection?				**X**
b) Police protection?				**X**
c) Schools?				**X**
d) Parks?				**X**
e) Other public facilities?				**X**

a) Fire protection?

No Impact

Public service impacts, including fire protection, are based on whether a project would increase the population in the area. The proposed storage facility, which does not include a residential element, would not increase the population in the area and would employ people living in the area. Therefore, there would be no impact.

b) Police protection?

No Impact

Public service impacts, including police protection, are based on whether a project would increase the population in the area. The proposed storage facility, which does not include a residential element, would not increase the population in the area and would likely employ people already in the area. Therefore, there would be no impact.

c) Schools?

No Impact

Public service impacts, including schools, are based on whether a project would increase the population. The proposed storage facility, which does not include a residential element, would not increase the population in the area and would employ people in the area. Therefore, there would be no impact.

d) Parks?

No Impact

Public service impacts, including parks, are based on whether a project would increase the population. The proposed storage facility, which does not include a residential element, would not increase the population in the area and would employ people in the area. Therefore, there would be no impact.

e) Other Public Facilities?

No Impact

Public service impacts, including libraries and hospitals, are based on whether a project would increase the population in the area. The proposed storage facility, which does not include a residential element, would not increase the population in the area and would employ people in the area. Therefore, there would be no impact.

4.16 Recreation

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?				**X**
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?				**X**

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

No Impact

Recreational services in the Town of Yucca Valley are provided by the Town's Department of Community Services, which maintains nine built parks and two open spaces (Town of Yucca Valley 2025a). The Town's Park acreage standard is three acres of public park land per 1,000 residents. The City currently has approximately 270 acres total in parks and land for public use, enough to meet this performance standard. Existing parks within approximately 3 to 5 linear miles of the project site include (Town of Yucca Valley 2014, 2025):

Community Center Park – approximately **2.8 miles south**

- About 10 acres.
- Includes open turf areas, walking/jogging paths, basketball courts, baseball field, and soccer field.
- Serves as a general community recreation area for passive and active uses.

Brehm Park – approximately **2.75 miles southwest**

- Community park (approx. 12 acres).
- Contains walking paths, open play areas, turf fields, and passive recreation amenities.
- Used by local residents for walking, running, and informal outdoor activities.

Paradise Park – approximately **3 miles southeast**

- Neighborhood park (~2–3 acres).
- Includes a playground, picnic areas, and at least one pickleball court.

- Serves nearby residential neighborhoods for children's play and small-scale recreational use.

North Park – approximately **4.5 miles southwest**

- Local community-serving park.
- Provides neighborhood-level open space and outdoor recreation opportunities.
- (No formal acreage or detailed amenity description available through public sources.)

Essig Park – approximately **4.6 miles south**

- Community park with playground areas, turf, seating/picnic space, and dog-friendly features.
- Recently improved with upgraded walkways, new shade structures, and irrigation enhancements.
- Serves families and local residents for passive recreation.

Demand for parks is generated by the population in the parks' service areas. The proposed project involves a self-storage facility, consisting of 16 detached storage structures, totaling approximately 89,700 square feet and a 400 square foot manager's office. The proposed project would not increase population in the parks' service areas and thus would not increase use of the parks. Therefore, there would be no impacts on parkland and park facilities.

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

No Impact

The proposed project is on undeveloped land. Project development does not include recreation facilities and would not require the construction or expansion of existing recreational facilities. Therefore, there would be no impact.

4.17 Transportation

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?			**X**	
b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)?			**X**	
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?			**X**	
d) Result in inadequate emergency access?			**X**	

The following analysis is based upon the Trip Generation and Vehicle Miles Traveled (VMT) Analysis (LSA, 2024b) that was prepared following the San Bernardino County Transportation Impact Study Guidelines and the CEQA Guidelines (ref. **Appendix I**).

a) Would the project conflict with a program plan, ordinance or policy addressing circulation system, including transit, roadway, bicycle and pedestrian facilities?

Less than Significant Impact

San Bernardino County Congestion Management Program (CMP)

The proposed project would not conflict with or result in inconsistencies with the San Bernardino County Congestion Management Program (CMP), administered by the San Bernardino County Transportation Authority (SBCTA). The CMP requires further evaluation for projects that generate more than 250 peak-hour trips, or that are expected to impact designated CMP facilities.

According to the Trip Generation Analysis prepared for the project, the project would generate approximately nine a.m. peak-hour and 15 p.m. peak-hour trips, for a total of 137 daily trips. These volumes fall well below the 250-trip CMP screening threshold (LSA, 2024b). Additionally, the project site is not located adjacent to or expected to generate measurable traffic on CMP-designated facilities, such as State Route 247 (SR-247) or State Route 62 (SR-62).

Therefore, based on its type and size, location, and trip generation, the project would not result in a significant impact to the regional transportation network and is considered to be exempt from CMP review requirements and no conflict with the CMP would occur.

San Bernardino County Active Transportation Plan

The proposed project would not conflict with the goals or policies of the San Bernardino County Active Transportation Plan, which promotes safe, connected infrastructure for pedestrians and

bicyclists throughout the County, including coordination with local jurisdictions such as the Town of Yucca Valley.

While no existing bicycle or pedestrian facilities are located along Newton Lane or Sun Mesa Drive adjacent to the project site, the Town of Yucca Valley General Plan Circulation Element identifies future Class II bicycle lanes along Buena Vista Drive, located south of the project area. The project would not obstruct or preclude these planned facilities and does not involve road widening or alterations that would degrade pedestrian or bicycle safety or connectivity.

Internally, the project includes sidewalks and pedestrian pathways to facilitate safe access between the parking areas and the manager's office, which aligns with the Active Transportation Plan's goal to support pedestrian accessibility within private developments. Because the project does not reduce or impair any existing or proposed regional active transportation routes and includes provisions for onsite pedestrian circulation, it is considered consistent with the SBCTA Active Transportation Plan. Therefore, no impact would occur with respect to regional active transportation policies.

San Bernardino Countywide Complete Streets Policy

The proposed project would not conflict with the San Bernardino Countywide Complete Streets Policy, adopted by the San Bernardino County Transportation Authority (SBCTA) to promote the design and development of transportation networks that safely accommodate all users, including motorists, pedestrians, bicyclists, and transit riders of all ages and abilities.

The project is located on Newton Lane in the Town of Yucca Valley, where existing pedestrian and bicycle infrastructure is currently limited as detailed above. However, the proposed project would not alter public rights-of-way in a manner that would preclude future multimodal improvements. It also includes internal pedestrian pathways consistent with the policy's emphasis on accessible internal circulation.

Although the project is not directly adjacent to any active transportation corridors, it would not obstruct planned infrastructure identified in the Town of Yucca Valley General Plan Circulation Element, including proposed Class II bicycle lanes along Buena Vista Drive. In addition, the project's scale and use are low traffic-generating and do not introduce safety conflicts for non-motorized users.

The project supports the intent of the SBCTA Complete Streets Policy by maintaining flexibility for future multimodal enhancements and providing safe internal pedestrian access. Therefore, the project is considered consistent with the Countywide Complete Streets Policy, and no impact would occur.

Town of Yucca Valley General Plan – Mobility and Transportation

As previously mentioned, the project is expected to generate approximately 137 daily vehicle trips, including nine a.m. peak-hour trips and 15 p.m. peak-hour trips. These volumes fall well below San Bernardino County's threshold of 100 peak-hour trips, which would otherwise necessitate a full Transportation Impact Study (TIS). Further, the proposed project does not include a zone change or a General Plan amendment. As such, the project would not result in a substantial increase in vehicle traffic or roadway congestion and is consistent with applicable circulation policies outlined in the Town of Yucca Valley General Plan Circulation Element (Town of Yucca Valley, 2014).

Table 4.17 below provides a detailed validation of the project's consistency with the Mobility and Transportation goals and policies outlined in the Town of Yucca Valley General Plan.

Table 4.17-1
COMPLIANCE WITH YUCCA VALLEY GENERAL PLAN – CIRCULATION ELEMENT

Goal / Policy	Consistency Analysis
GOAL C 1: A constraints-based circulation system that balances the needs of goods movement, nonautomotive use, and complete streets.	
Roadway Classification Policies	
Policy C 1-1 Utilize a constraints-based planning process to evaluate future transportation improvements.	*Consistent.* Project adheres to local street constraints and does not require capacity beyond typical industrial use; improvements along Newton Lane and Sun Mesa Drive reflect localized constraints-based planning.
Policy C 1-2 Pursue funding, including updating the transportation impact mitigation fee program, to assist in implementing the transportation system by expanding its roadway capacity, pedestrian sidewalk facilities, bicycle facilities, and trail facilities.	*Consistent.* Offsite improvements are proposed; development impact fees and future Town updates to the fee program will assist in network-wide transportation funding.
Policy C 1-3 Strive to maintain vehicle level of service (LOS) D on all roadways within the Town. Utilize the roadway capacities, as identified in Table C-1, to evaluate roadway operations.	*Consistent.* Project generates minimal traffic and would not degrade LOS below D. If a transportation study is prepared, LOS D compliance will be verified against Table C-1 capacities.
Policy C 1-6 Protect rights-of-way for SR-62 and SR-247, major arterials, collectors, residential streets, and for all other planned infrastructure as shown on the figures above.	*Consistent.* Improvements respect existing ROW on Newton Lane and Sun Mesa Drive; the project does not encroach on SR-62/SR-247 alignments.
Policy C 1-7 Encourage development designs that integrate multiple modes of access, including pedestrian, bicycle, and public transportation.	*Consistent.* The project includes internal pedestrian paths, ADA access, and driveways wide enough for service vehicles, integrating multimodal access on-site.
Complete Streets Policies	
Policy C 1-8 Apply complete street strategies that accommodate pedestrian, bicycle, and transit.	*Consistent.* While not a typical complete streets project, the facility integrates sidewalks and ADA features, promoting internal pedestrian safety.
Policy C 1-9 Require sidewalk improvements concurrent with new development where commercial and school uses are planned and where residential densities exceed two units per acre, or as required by the Planning Commission.	*Consistent.* Sidewalks are proposed along Newton Lane and Sun Mesa Drive consistent with Town requirements.
Efficient Goods and Services Movement Policies	
Policy C 1-15 Design designated truck routes such that the pavement, roadway width, and curb return radii support anticipated heavy vehicle use.	*Consistent.* Driveways and internal circulation lanes are designed to accommodate moving trucks and delivery vehicles, consistent with industrial roadway geometry.
Policy C 1-16 Support and work with Caltrans to coordinate signals along SR-62 and SR-247 in Town.	*Consistent.* While the project does not front SR-62/SR-247, its location and access points support the local freight network, especially with paved improvements and loading zones.
Policy C 1-17 Ensure funding is available to implement and maintain signal coordination.	

Policy C 1-18 Maintain truck route designations to support heavy vehicle use and connections to the Yucca Valley Airport as noted on Figure C-3.	
Traffic Management Policies	
Policy C 1-20 Require future development to pave roadways that will serve 500 or more daily trips as noted in Table C-1 unless paving of that facility is considered infeasible by the Town, there is no funding for the improvement, or when the majority of the residents on that facility desire it to be unpaved.	*Consistent.* Project proposes paving of Newton Lane and Sun Mesa Drive, supporting this policy's directive for roads serving 500+ ADT.
Policy C 1-21 Pursue funding to pave unpaved roadways where the traffic volume exceeds 500 daily trips unless paving of that facility is infeasible or when the majority of the residents on that facility desire it to be unpaved.	*Consistent. Dust control will be implemented during construction; paved access will reduce future dust emissions and aligns with the Town's dust minimization goals.*
Policy C 1-22 Minimize dust emissions on existing and new unpaved roads where traffic volumes exceed 500 daily trips.	
Policy C 1-25 Maintain truck routes through town for efficient freight transportation service to businesses and industry while limiting impacts to residents and visitors.	*Consistent.* Project supports local freight and delivery needs without impacting residential zones, thus maintaining appropriate use of designated truck routes.
GOAL C 2: A full range of public utilities and related services that provide for the immediate and long-term needs of the community.	
Policies	
Policy C 2-1 Work with utility providers in the planning, designing, and siting of distribution and support facilities to comply with the standards of the General Plan and Development Code.	*Consistent.* Utility coordination with High Desert Water District, SCE, and septic provider has been incorporated into project planning.
Policy C 2-2 Work with utility providers to increase service capacity as demand increases.	*Consistent.* The project's infrastructure extensions support capacity growth; future service expansions can accommodate increased demand in the industrial area.
Policy C 2-3 Coordinate public infrastructure improvements through the Town's Capital Improvement Program.	*Consistent.* Project improvements are consistent with Town capital improvement priorities and will be subject to coordination during final approvals.
Policy C 2-4 Encourage the shared use of right-of-way, transmission corridors, and other appropriate measures to minimize the visual impact of utilities infrastructure throughout Town.	*Consistent.* Utility connections will use existing corridors. Visual impacts are minimized via undergrounding and site screening.
Policy C 2-5 Require that approval of new development be contingent upon the project's ability to secure appropriate infrastructure services.	*Consistent.* No development approval will be granted without full confirmation of water, electricity, and septic availability and feasibility.

Bicycle and Pedestrian Circulation

There are currently no existing bicycle lanes or continuous sidewalk facilities adjacent to the project site. In addition, the project would not interfere with any proposed bicycle infrastructure outlined in the Town of Yucca Valley General Plan Circulation Element, including future Class II bike lanes along Buena Vista Drive, located south of the project site. Pedestrian infrastructure in the area is limited,

and the project would not result in the removal or obstruction of any sidewalks or pedestrian pathways.

Public Transit

The nearest fixed-route transit service in the vicinity is provided by Basin Transit (formerly Morongo Basin Transit Authority). The closest stop is located at the Yucca Valley Transit Center, situated at Yucca Trail & Airway Road, which is part of Basin Transit's Route 21 -Landers–Yucca Valley loop. This transit center is approximately two miles west of the project site at Newton Lane and Sun Mesa Drive, confirming that no fixed-route stops are located along Newton Lane or Sun Mesa Drive, and the project site lies outside of immediate transit coverage (Basin Transit, 2025). The project would not alter or conflict with Basin Transit service routes or schedules, and no transit stop improvements are proposed or required.

As detailed above, the proposed project would not conflict with any applicable policies from the town's General Plan addressing circulation system, including transit, roadway, bicycle and pedestrian facilities. Therefore, the project would have a less than significant impact in this regard.

b) Would the project conflict or be inconsistent with CEQA Guidelines section 15064.3, subdivision (b)

Less Than Significant Impact

Under the 2025 CEQA Guidelines §15064.3(b), vehicle miles traveled (VMT) is the required metric for determining transportation impacts as the basis for significance under CEQA. A Trip Generation and VMT Analysis was prepared for the proposed project by LSA Associates, Inc. (LSA, 2024b). included as **Appendix I**, consistent with the San Bernardino County Transportation Impact Study Guidelines and SBCTA screening protocols.

Based on the analysis, the project is located in a low-VMT zone, defined as a traffic analysis zone (TAZ) where baseline VMT is at least four percent below the County average. The San Bernardino County average VMT per worker is 16.9, while the proposed project's TAZ has a VMT of 9.6 per worker, which is 43.19 percent below the County average and detailed in **Table 4.17-2**. Therefore, the project qualifies for screening and is presumed to result in a less than significant impact, unless there is pertinent information to the contrary.

Table 4.17-2
PROJECT VMT ANALYSIS

Metric	County Threshold	Project Value	Difference	Significance
VMT per worker (County average)	16.9	9.6	–43.19 percent	Less than significant
Screening threshold (low-VMT zone)	≥4 percent below average	Yes	Met	No detailed analysis required

Source: LSA Associates, 2024

Because the project falls below both the screening threshold and trip generation thresholds and is located within a low-VMT zone, it is exempt from detailed VMT modeling and would not conflict with CEQA Guidelines §15064.3(b). Therefore, the project would have a less than significant impact.

c) Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Less than Significant Impact

The proposed project includes two standard 30-foot-wide driveways along Newton Lane, which provide adequate access for vehicles, including emergency responders, in accordance with the Town of Yucca Valley development standards and California Fire Code access requirements. Internal drive aisles range from 15 to 30 feet in width, sufficient to accommodate typical passenger vehicles and service trucks associated with self-storage operations. The site plan will be reviewed for compliance with applicable geometric design standards, and no unusual roadway features—such as sharp curves, blind intersections, or non-standard turning radii—are proposed.

The proposed self-storage facility is consistent with the site's Industrial zoning and would not introduce an incompatible use, such as agricultural or heavy industrial operations requiring farm equipment or off-road vehicles. No hazardous design elements or incompatible land use conflicts have been identified. Therefore, the project would not result in hazardous conditions due to design features or surrounding uses, and a **less than significant** impact would occur.

d) Would the project result in inadequate emergency access?

Less than Significant Impact

Construction

The project would not result in inadequate emergency access during construction. All construction activities, including grading, utility installation, and building erection, would be confined to the 4.34-acre project site with the exception of half-roadway improvements along Newton Lane and Sun Mesa Drive. Temporary barricades and perimeter fencing would be installed for safety, but access points along Newton Lane would remain unobstructed for emergency vehicles. Construction staging and worker parking would occur entirely on-site, ensuring that public roads remain clear. Compliance with the California Fire Code and coordination with the San Bernardino County Fire Protection District will be required to ensure that emergency access routes are maintained throughout all construction phases. Therefore, a **less than significant** to emergency access during construction would occur.

Operation

During project operation, emergency access would be fully accommodated via two 30-foot-wide driveways off Newton Lane, which exceed minimum width requirements for emergency vehicle ingress and egress. Internal circulation lanes range from 15 to 30 feet wide, which allows sufficient turning radii and maneuverability for fire apparatus and emergency responders. The site will also feature rolling security gates at driveway entrances that are designed to be accessible to first responders per Fire District specifications. The project's design and circulation layout have been or will be reviewed by the San Bernardino County Fire Protection District during the permitting process to ensure full compliance with emergency access standards. Therefore, a **less than significant** to emergency access during operation would occur.

4.18 Tribal Cultural Resources

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Cause a substantial adverse change in the significance of a tribal cultural resource that is listed or eligible for listing in the California Register of Historical Resources or in a local register of historical resources as defined in Public Resources Code § 5020.1(k)?				**X**
b) Cause a substantial adverse change in the significance of a tribal cultural resource that is determined to be a significant resource to a California Native American tribe pursuant to the criteria set forth in subdivision (c) of Public Resource Code § 5024.1(c)?		**X**		

Information from the LSA Phase I Cultural Resources Assessment Report, dated August 2025 for the proposed project (refer to **Appendix D**) is included in the analysis below.

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource that is listed or eligible for listing in the California Register of Historical Resources or in a local register of historical resources as defined in Public Resources Code § 5020.1(k)?

No Impact

No resources as defined by Public Resources Code §21074 have been identified. Additionally, the project site has not been recommended for historic designation for prehistoric and Tribal Cultural Resources (TCRs). No tribal cultural sites were documented in the Native American Heritage Commission's Sacred Lands File (SLF) search. No specific tribal resources have been identified.

No prehistoric or historic archaeological resources were observed during the field survey conducted on July 20, 2024, by LSA Archaeologist Cassidy Sharp as part of the cultural resources investigation (**Appendix D**).

Based on the SCCIC cultural resources records search on July 11, 2024, it was determined that there are no prehistoric or historic cultural resources previously recorded within the project site boundary. Within the one-mile buffer zone, there have been three recorded resources, one of them prehistoric and two historic-era. The single prehistoric site within the one-mile buffer of the project boundary is a lithic artifact scatter (36-002379). This artifact scatter is located approximately 0.29 mile southwest of the project site. The two historic period resources include a 1950s residence at 4451 Old Woman Springs Road (36-027695) and a segment of Old Woman Springs Road (36-010716), a route dating to the 19th century that is located approximately 160 meters/530 feet to the

west. There have been 16 previous cultural resource studies within the one-mile buffer of the project. None of these surveys intersects the current project boundary. (**Appendix D** to this IS/MND).

No tribal cultural resources onsite are listed or eligible for listing in the California Register of Historical Resources or in a local register of historical resources as defined in Public Resources Code § 5020.1(k). Therefore, the project would have no impact in this regard.

b) Would the project cause a substantial adverse change in the significance of a tribal cultural resource that is determined to be a significant resource to a California Native American tribe pursuant to the criteria set forth in subdivision (c) of Public Resource Code § 5024.1(c)?

Less than Significant Impact with Mitigation Incorporated

Assembly Bill 52 (AB 52) requires meaningful consultation with California Native American Tribes on potential impacts on TCRs, as defined in Public Resources Code § 21074. TCRs are sites, features, places, cultural landscapes, sacred places, and objects with cultural value to a California Native American tribe that are either eligible or listed in the California Register of Historical Resources or local register of historical resources (CNRA, 2007).

As part of the AB 52 process, Native American tribes must submit a written request to the lead agency to be notified of projects within their traditionally and culturally affiliated area. The lead agency must provide written, formal notification to those tribes within 14 days of deciding to undertake a project. The tribe must respond to the lead agency within 30 days of receiving this notification if they want to engage in consultation on the project, and the lead agency must begin the consultation process within 30 days of receiving the tribe's request. Consultation concludes when either (1) the parties agree to mitigation measures to avoid a significant effect on a tribal cultural resource, or (2) a party, acting in good faith and after reasonable effort, concludes mutual agreement cannot be reached.

The Town of Yucca Valley (the lead agency) is conducting AB 52 outreach with local tribes for the Sun Mesa Mini Storage Project. The Lead Agency has prepared and sent letters via certified mail and emails on April 4, 2024 and again on July 30, 2025 with the corrected project number to the several tribes on the City's list for AB 52 contact, and to the Agua Caliente Band of Cahuilla Indians on October 8, 2025 informing them of the project. The letters convey that the recipient has 30 days from the receipt of the letter to request AB 52 consultation regarding the project.

The tribes contacted included:

- Lacy Padilla, Director of Historic Preservation/THPO, Agua Caliente Band of Cahuilla Indians
- Ann Brierty, THPO, Morongo Band of Mission Indians
- Robert Martin, Chairperson, Morongo Band of Mission Indians
- Jill McCormick, Historic Preservation Officer, Quechan Tribe of the Fort Yuma Reservation
- Vanessa Minott, Tribal Administrator Santa Rosa Band of Cahuilla Indians
- Mark Cochrane, Co-Chairperson, Serrano Nation of Mission Indians
- Wayne Walker, Co-Chairperson, Serrano Nation of Mission Indians
- Joseph Ontiveros, Tribal Historic Preservation Officer, Soboba Band of Luiseno Indians

- Manfred Scott, Acting Chairman - Kw'ts'an Cultural Committee; Quechan Tribe of the Fort Yuma Reservation
- Jordan Joaquin, President, Quechan Tribal Council; Quechan Tribe of the Fort Yuma Reservation
- Alexandra McCleary, Senior Manager of Cultural Resources Management, San Manuel Band of Mission Indians
- Steven Estrada, Tribal Chairman, Santa Rosa Band of Cahuilla Indians
- Jessica Valdez, Cultural Resource Specialist Soboba Band of Luiseno Indians
- Nicolas Garza, Cultural Resources Specialist, Twenty-Nine Palms Band of Mission Indians
- Sarah O'Brien, Tribal Archivist Twenty-Nine Palms Band of Mission Indians
- Christopher Nicosia, Cultural Resources Manager/THPO Manager Twenty-Nine Palms Band of Mission Indians

The Twenty-Nine Palms Band of Mission Indians responded by email to Jared Jerome, Town of Yucca Valley Associate Planner, on September 15, 2025 with a letter attached dated September 12, 2025. The letter from Chairman Darrell Mike indicated that the project is within the Chemehuevi Traditional Use Area but no known cultural resources are located within the project's APE but there exists the possibility of surface or buried materials on the site. Chairman Mike asked that the Lead Agency follow specific conditions for all cultural resources on any development plans and indicated that Mr. Nicolas Garza, Tribal Historic Preservation Officer can be contacted for further consultation. Mr. Jerome responded on September 15, 2025 with a question about a potential missing sentence and providing projects documents including the Cultural Resources Assessment. Mr. Jerome also asked if Mr. Garza would like to have a meeting or if there are specific mitigation measures or conditions you would like to be included with the project. No further response has been received from Twenty-Nine Palms Band of Mission Indians.

The Yuhaaviatam of San Manuel Nation (formerly the San Manuel Band of Mission Indians) responded by email on April 12, 2024 . Ms. Kristine Tuosto, Tribal Archaeologist, requested the following for review: Cultural report, Geotechnical report, project plans showing the depth of proposed disturbance. This information will assist Yuhaaviatam of San Manuel Nation in ascertaining how the Tribe will assume consulting party status under CEQA. Ms. Tuosto sent a second request for this information on July 12, 2024. Mr. Jerome responded on July 22, 2025 that these studies are still being prepared and should be completed between August and October. Ms. Raylene Borrego, Cultural Resources Technician contacted Mr. Jerome through email on December 2, 2024 asking about the update on the required studies. Mr. Jerome responded that all of the technical studies have not been completed but that the grading plan and Cultural study was completed and those were provided. Ms. Borrego responded on December 2, 2024 indicating that after reviewing the cultural report and with their knowledge of the area the tribe has determined the project may have potential for inadvertent discoveries of Tribal Cultural Resources and requests that a series of Cultural and Tribal Mitigation Measures provided be made part of the project's mitigation measures. These Tribal Cultural Resources measures are included in the Mitigation Measures for this project as **MM TCR-1** and **MM TCR-2**.

The Morongo Band of Mission Indians responded by email to Mr. Jerome on May 8, 2024. Ms. Bernadette Ann Brierty, Tribal Historic Preservation Officer, indicated that the Project is located within the ancestral territory and traditional use area of the Cahuilla and Serrano people of the Morongo Band of Mission Indians and requested government-to-government consultation with the Town of Yucca Valley. The tribe indicated that tribal monitoring is recommended during the cultural resource surveys and future construction phases of the Project. The tribe requests a California

Historical Resources Information System (CHRIS) records search conducted with at least a 1.0-mile search radius from the project boundary, tribal participation (a.k.a. tribal monitors) during the pedestrian survey and testing and copies of the Phase I study if this work has taken place, shape files of the Project's area of effect, Geotechnical Report, and current Project design and Mass Grading Maps. Mr. Jerome responded by email on September 18, 2025 with much of the requested materials except the shapefiles as they don't have that for the proposed project. Mr. Jerome also asked if the tribe had any questions, would like to have a meeting or would like to add specific conditions of approval for the project to please contact him. Mr. Jerome responded by email on November 5, 2025 asking if the tribe is interested in consulting on this project and asked for dates and times for a meeting if preferred. No response has been received.

The Agua Caliente Band of Cahuilla Indians responded by email on October 10, 2025 indicating that the project area is not located within the boundaries of the ACBCI Reservation, but it is within the Tribe's Traditional Use Area, Due to this, the Tribe requests consultation on this project. In a follow up letter received November 3, 2025, Anthony Kline, Cultural Resources Analyst indicated that for this project a Cultural Resource Monitor(s) from a Consulting tribe should be onsite during all ground disturbing activities, including testing and surveys and can request that construction halt if resources are encountered. The tribe also requested that the archaeologist on site must meet the Secretary of Interior's standards. The last request from the tribe is that if any Tribal Cultural Material is found, in collaboration with Agua Caliente, it be reburied on site if avoidance is not feasible. The tribe also asked to review San Manuel's Mitigation measure and that it no other consultation tribe requests monitoring to please contact Agua Caliente to provide that service. The Mitigation Measures from the San Manuel Band of Indians was provided to the tribe on November 3, 2025. Mr. Jerome provided the TCR section for review and the tribe provided two comments.

Given the local Native American tribal concerns for potential traditional cultural resources, mitigation measures provided by the Yuhaaviatam of San Manuel Nation will be implemented to further reduce potential impacts to less than significant levels. At the request of the Morongo Band of Mission Indians a Mitigation Measure for Tribal Monitoring will be included. Consultation has been concluded for this project as of November 17, 2025.

Construction activities associated with development of the project would involve new subsurface disturbance and could result in the unanticipated discovery of cultural resources, with the implementation of mitigation measure **MM TCR-1** and **MM TCR-3** this impact would be less than significant. In the unlikely event of an unexpected discovery of human remains, **MM TCR-2** would ensure that impacts related to the accidental discovery of human remains would be less than significant.

Mitigation Measures

MM TCR-1: **Treatment of Cultural Resources During Project Implementation**. If a pre-contact cultural resource is discovered during project implementation, ground-disturbing activities shall be suspended 60 feet around the resource(s), and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed.

The Secretary of the Interior Qualified Project Archaeologist shall develop a research design that shall include a plan to evaluate the resource for significance under CEQA criteria. Representatives from the Consulting Tribes (Yuhaaviatam of San Manuel Nation (YSMN), Morongo Band of Mission

Indians (Morongo), and the Agua Caliente Band of Cahuilla Indians), the Archaeologist, and the Lead Agency shall confer regarding the research design, as well as any testing efforts needed to delineate the resource boundary. Following the completion of evaluation efforts, all parties shall confer regarding the resource's archaeological significance, its potential as a Tribal Cultural Resource (TCR), and avoidance (or other appropriate treatment) of the discovered resource. Removal of any cultural resource(s) shall be conducted with the presence of a Tribal monitor representing the Tribes, unless otherwise decided by YSMN and Morongo. All plans for analysis shall be reviewed and approved by the applicant and YSMN and Morongo prior to implementation, and all removed material shall be temporarily curated on-site.

It is the preference of the Consulting Tribes, that removed cultural material be reburied as close to the original find location as possible. However, should reburial within/near the original find location during project implementation not be feasible, then a reburial location for future reburial shall be decided upon by The Consulting Tribes, the landowner, and the Lead Agency, and all finds shall be reburied within this location. Additionally, in this case, reburial shall not occur until all ground-disturbing activities associated with the project have been completed, all monitoring has ceased, all cataloguing and basic recordation of cultural resources have been completed, and a final monitoring report has been issued to Lead Agency, CHRIS, and the Consulting Tribes. All reburials are subject to a reburial agreement that shall be developed between the landowner, and Consulting Tribes outlining the determined reburial process/location, and shall include measures and provisions to protect the reburial area from any future impacts.

Should it occur that avoidance, preservation in place, and on-site reburial are not an option for treatment, the landowner shall relinquish all ownership and rights to this material and confer with the Consulting Tribes to identify an American Association of Museums (AAM)-accredited facility within the County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriate qualified repository shall be developed between the landowner and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the obligation of the Project developer/applicant to pay for those fees.

All draft records/reports containing the significance and treatment findings and data recovery results shall be prepared by the archaeologist and submitted to the Lead Agency and the Consulting Tribes for their review and comment. After approval from all parties, the final reports and site/isolate records are to be submitted to the local CHRIS Information Center, the Lead Agency, and the Consulting Tribes.

MM TCR-2: **Inadvertent Discoveries of Human Remains.** If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project.

MM TCR-3: **Tribal Cultural Resources Monitoring.** In consultation with Consulting tribes (San Manuel and Morongo. If they are unable to provide a monitor, Agua Caliente can provide one), the developer, and the Town of Yucca Valley, a Tribal Monitoring Plan (TMP) will be prepared to address the details, timing, and responsibility Tribal Monitoring activities that will occur on the project site. Details in the TMP shall include:

1. Monitoring of project-related ground disturbance (including, but not limited to, brush clearing, grading, trenching, archaeological testing, surveys, etc.) coordinated with these construction-related activities.

2. The development of a concurrent monitoring schedule in coordination with the developer and the designated Native American Tribal Monitors from the consulting tribes during grading, excavation and ground disturbing activities on the site: including the scheduling, safety requirements, duties, scope of work, and Native American Tribal Monitors' authority to stop and redirect grading activities in coordination with the project archaeologist.

3. The protocols and stipulations that the developer, City, Tribes, and project archaeologist will follow in the event of inadvertent TCR discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.

Level of Significance After Mitigation

With implementation of Mitigation Measure **MM TCR-1** and **MM TCR-3,** potential project impacts on TCRs would be less than significant. With implementation of **MM TCR-2** above, the proposed project would result in less than significant impacts to human remains and associated funerary objects.

4.19 Utilities and Service Systems

Would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Require or result in the relocation or construction of new or expanded water wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of whi1ch could cause significant environmental effects?			**X**	
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?			**X**	
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?				**X**
d) Generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?			**X**	
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?			**X**	

a) Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Less than Significant Impact

As discussed in **Section 3.0** the proposed project would require offsite improvements including sewer, domestic water, fire water, irrigation, and dry utilities connections to existing utility infrastructure in Newton Lane.

Wastewater Treatment and Conveyance – The proposed project includes construction of a septic tank and leach field, as the site is outside the service area of a wastewater treatment plant. The project

includes construction of wastewater lines within the project site discharging to the septic tank but would not involve connections to offsite sewers.

The proposed septic tank would have 750 gallons capacity. The project includes one proposed restroom, in the manager's office, that would contain one sink and one toilet. The septic tank would have adequate capacity for estimated project wastewater generation per the percolation testing report completed for the project by Sladden Engineering included as **Appendix G1** (Sladden, 2025b, p. 4).

Hi-Desert Water District (HDWD) is building a sewer system serving much of the town of Yucca Valley. However, the project site is outside the sewer system service area (HDWD, 2020, Figure 3A).

Domestic Water – The project site is in the HDWD service area. HDWD water supplies consist of local groundwater from the Warren Valley Groundwater Basin underlying the southern part of HDWD's service area, and the Ames Valley Groundwater Basin underlying the northern part of HDWD's service area (HDWD, 2021, p. 3-2). As analyzed below in Threshold 4.19 b), the project would result in a nominal increase in water demand and therefore, the project would have a less than significant impact regarding domestic water supplies.

Water Treatment – HDWD water supplies meet state and federal water quality standards and does not require treatment before delivery to customers (HDWD, 2021, p. 3-14).

Stormwater – Existing storm drainage onsite is via surface flow to the southwest. The project includes construction of an infiltration basin in the southwest corner of the project site that would have design capture volume of 13,243 cubic feet (DRP, 2024b). The proposed infiltration basin would meet San Bernardino County requirements for site drainage, and project impacts on stormwater drainage systems would be less than significant.

Electric Power: Electric power for the City of Yucca Valley is provided by Southern California Edison (SCE) (CEC, 2023). The proposed project is in a developed area, and infrastructure for providing electric power to the area is well established. SCE typically utilizes existing utility corridors to reduce environmental impacts and has energy-efficiency programs to reduce energy usage and maintain reliable service throughout the year (Southern California Edison, 2025. Total electricity consumption in SCE's service area is forecast to be 111,672GWh[16] in 2022 and 122,931 GWh in 2030 (CEC, 2020, Form 1.2).

The project would be constructed in accordance with applicable Title 24 regulations and would not necessitate the construction or relocation of electric power facilities. Therefore, a less than significant impact would occur.

Natural Gas: The proposed development would be all-electric, and no gas service would be provided to the project. No impacts on natural gas supplies or natural gas distribution infrastructure would occur.

Telecommunications Facilities: Frontier Communications provides telecommunications services near the project site (digalert.com, 2025). It is expected that Frontier facilities would be extended to the project site from existing lines in adjacent roadways. The proposed project would not interfere

[16] One GWH is equivalent to one million kilowatt-hours.

with the operation of telecommunications facilities, and therefore a less than significant impact would occur.

b) Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Less than Significant Impact

Water Supplies and Demands

The Hi Desert Water District (HDWD) provides water to part of the town of Yucca Valley including the project site. HDWD water supplies consist of groundwater from two local groundwater basins, Warren Valley and Ames Valley. HDWD forecasts that it will have sufficient water supplies to meet demands in normal water year, single-dry-year, and multiple-dry-year conditions over the 2020-2040 period (HDWD, 2021, p. 5-2).

Table 4.19-1
HDWD RETAIL WATER SUPPLIES AND DEMANDS, AFY

	2025	2030	2035	2040	2045
Supplies	3,056	3,149	3,222	3,292	3,354
Demands	3,056	3,149	3,222	3,292	3,354
Difference	0	0	0	0	0

Source: HDWD, 2021, p. 5-2
AFY= Acre-Feet per Year

Self-storage businesses are estimated to use 25 gallons per day (gpd) of water per 1,000 square feet of building area (City of Los Angeles, 2006).[17] The proposed project includes development of 89,700 square feet of building area; thus, project water demand is estimated at about 2,243 gpd. HDWD demand forecasts are based on a population projection by the UC Riverside School of Business Center for Economic Forecasting and Development in 2020. The demand forecasting model includes economic indicators such as residential housing stock, home prices, and employment trends (HDWD, 2021, p. 2-6). The self-storage business is accounted for in HDWD's demand forecast. Therefore, impacts under this category are anticipated to be less than significant.

c) Would the project result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

No Impact

The proposed project includes installation and operation of a septic tank and leach field for wastewater disposal and treatment. The project site is outside of the service area of the sewer system that is under construction in the town of Yucca Valley. Project wastewater generation would have no impact on the treatment capacity of a wastewater treatment provider, and no impact would occur.

[17] The water demand factor is 125percent of the wastewater generation factor for self-storage uses from the City of Los Angeles (City of Los Angeles, 2006).

d) Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Less than Significant Impact

The city contracts with Burrtec Waste & Recycling, Inc., for collection and disposal of the city's solid waste (Yucca Valley, 2025). Solid waste is disposed of at the Landers Sanitary Landfill (CalRecycle, 2025a), which is described below in **Table 4.19-2**.

Table 4.19-2
LANDFILLS SERVING YUCCA VALLEY

Facility and Nearest City/Community	Remaining Capacity, cubic yards	Daily Permitted Disposal Capacity, tons	Actual Daily Disposal, tons[1]	Residual Daily Disposal Capacity, tons	Estimated Closing Date
Landers Sanitary Landfill	11,063,811	1,200	202	998	2072

[1] Daily disposal calculated based on annual disposal tonnage assuming 300 operating days per year: that is, six days per week less certain holidays.
Sources: CalRecycle. 2025b.

Construction

Project construction would generate solid waste requiring disposal at local landfills. Materials generated during construction of the project may include paper, cardboard, metal, plastics, glass, concrete and other materials. Section 5.408 of the 2022 California Green Building Standards Code (CALGreen; California Code of Regulations, Title 24, Part 11) requires that at least 65 percent of the nonhazardous construction and demolition waste from nonresidential construction operations be recycled and/or salvaged for reuse (DGS, 2025). Project construction would include recycling and/or salvaging at least 65 percent of construction and demolition waste in accordance with the 2022 CALGreen.

Operation

No solid waste generation factor for self-storage uses is available. The solid waste generation factor for commercial uses, 0.006 pounds per day (ppd) per square foot, is for purposes of this analysis (CalRecycle, 2025c). The 89,700-square-foot project is thus estimated to generate about 538 pounds of solid waste per day (this is a conservative estimate). Adequate capacity is available at the Landers Sanitary Landfill for project-generated solid waste. Impacts would therefore, be less than significant.

e) Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Less Than Significant Impact

In 1989, the California Legislature enacted the California Integrated Waste Management Act (AB 939), to address solid waste problems and capacities in a comprehensive manner. The law required each city and county to divert 50 percent of its waste from landfills by the year 2000. San Bernardino County developed a Source Reduction and Recycling Element in 1994 that aims at recycling, composting, special waste disposal, and education and public information programs.

Assembly Bill 341 (AB 341; Chapter 476, Statutes of 2011) increases the statewide waste diversion goal to 75 percent by 2020, and mandates recycling for commercial and multi-family residential land uses. The project would include storage areas for recyclable materials in accordance with AB 341.

Assembly Bill 1826 (AB 1826; California Public Resources Code Sections 42649.8 et seq.) requires recycling of organic matter by businesses, and multifamily residences of five or more units, generating such wastes in amounts over certain thresholds. Organic waste means food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste. The project does not include food preparation facilities or spaces dedicated to food storage. The project includes limited landscaping along the north and west site boundaries. The project would include organics cans for storage of landscaping waste in accordance with AB 1826. The proposed project would comply with applicable local, state and federal solid waste disposal standards; therefore, impacts would be less than significant.

4.20 Wildfire

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?			**X**	
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?			**X**	
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?			**X**	
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?			**X**	

a) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project substantially impair an adopted emergency response plan or emergency evacuation plan?

Less Than Significant Impact

The proposed project is located within the Town of Yucca Valley, which maintains local responsibility for fire protection services and is served by the San Bernardino County Fire Department. According to CalFire's Fire Hazard Severity Zone (FHSZ) maps, the project site is within a Local Responsibility Area (LRA) (ref. **Figure 4.20-1**) and is not located in a State Responsibility Area (SRA) or within a Very High Fire Hazard Severity Zone (VHFHSZ) (ref. **Figure 4.20-2**). However, surrounding areas of Yucca Valley do include VHFHSZ designations, and the Town has adopted fire safety standards accordingly.

The project involves the development of a self-storage facility, internal drive aisles, perimeter fencing, and improved access along Newton Lane. The site plan includes two 30-foot-wide driveways providing ingress and egress, which would facilitate emergency vehicle access and on-site circulation. These design features are consistent with Town of Yucca Valley General Plan Safety Element and San Bernardino County Fire Department requirements for emergency response access.

Implementation of the project would not conflict with the Town's adopted local Hazard Mitigation Plan (Town of Yucca Valley, 2014) or the San Bernardino County Multi-Jurisdictional Hazard Mitigation Plan (County of San Bernardino, 2022). The proposed improvements do not involve road closures or modifications that would hinder evacuation routes. The project would also be subject to standard fire code compliance, including hydrant spacing, fire-flow requirements, and emergency access provisions under the California Fire Code. Therefore, while the project is in proximity to fire-prone areas, it is not situated within a designated VHFHSZ and would not impair emergency response or evacuation plans. The project would have a less than significant impact.

Figure 4.20-1
FIRE HAZARD SEVERITY ZONE - LOCAL RESPONSIBILITY AREA

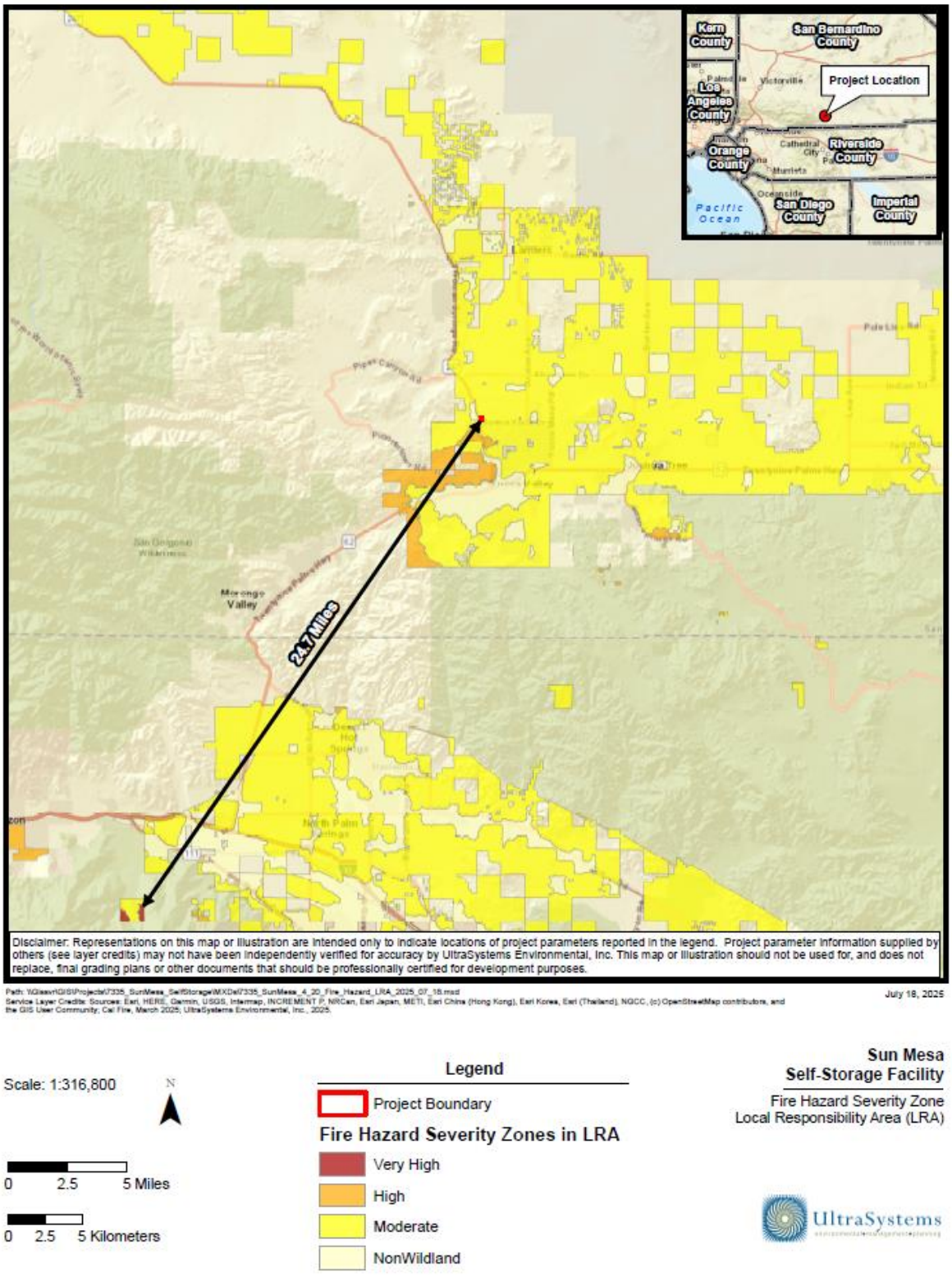
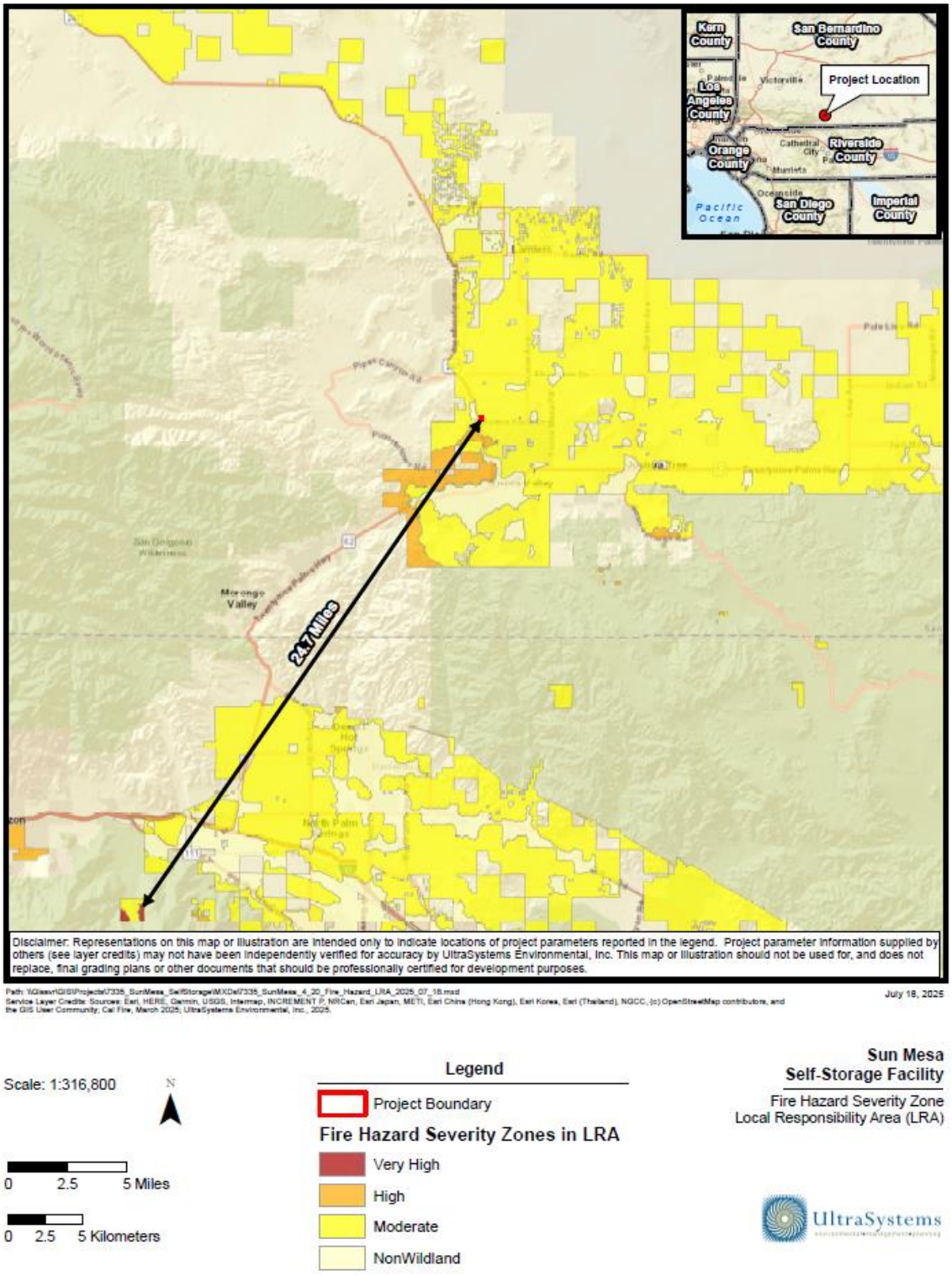


Figure 4.20-2
FIRE HAZARD SEVERITY ZONE - STATE RESPONSIBILITY AREA



If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Less Than Significant Impact

The project site is located within a LRA (not an SRA) and is not classified as a VHFHSZ per CalFire mapping, but areas surrounding the Town do contain VHFHSZ designations, and the regional landscape, characterized by desert scrub vegetation and seasonal winds, poses moderate fire risk.

The project site is relatively flat and is not situated on or near significant slopes that would contribute to fire intensity or spread. Site improvements include the removal of existing combustible vegetation, installation of irrigated landscaping using drought-tolerant, low-fuel species, and a six-foot-tall concrete masonry wall around the project perimeter will reduce opportunities for off-site wildfire intrusion. Additionally, the use of non-combustible building materials and on-site hydrants would further minimize fire risks.

Although Yucca Valley is subject to periodic high winds (including Santa Ana-type events), The facility consists primarily of enclosed, non-habitable self-storage units, with minimal on-site human presence aside from a manager's office reducing the potential exposure to wildfire-related pollutant concentrations.

The project would also comply with applicable provisions of the California Building Code (Chapter 7A, Wildland-Urban Interface Building Standards) and the Town's adopted fire prevention requirements, including defensible space and ember-resistant construction features, where applicable.

Given the site's LRA classification, low topographic risk, and limited occupancy characteristics, the project would not exacerbate wildfire risks or significantly expose occupants to fire-related pollutants and would have a less than significant impact.

b) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Less Than Significant Impact

The project site lies in a portion of Yucca Valley surrounded by similar urban infrastructure and land uses. The project includes limited infrastructure improvements typical for current development, such as internal driveways, frontage improvements along Newton Lane, utility tie-ins, and installation of a private on-site septic system for wastewater disposal. The septic system will be located entirely within the project site and designed in accordance with San Bernardino County Environmental Health Services requirements, including setbacks, leach field sizing, and maintenance access. This system does not increase wildfire risk, as it does not involve combustible materials or elevated fire exposure.

The project does not require the installation of new underground power lines, off-site fuel management areas, or expanded emergency access corridors beyond those required by local development standards. Water supply infrastructure will tie into existing municipal systems, and fire hydrants will be installed as required by the San Bernardino County Fire Department to serve the site.

Construction activities will result in temporary ground disturbance and minor air emissions, but these impacts will be addressed through compliance with construction best management practices and mitigation identified in the Initial Study.

As such, the required infrastructure is not located in areas of high fire risk and would not contribute to increased wildfire hazards. Therefore, fire risk associated with infrastructure installation or maintenance would have a less than significant impact.

c) If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less Than Significant Impact

The site is relatively flat and does not exhibit steep slopes or topographical features that would be prone to landslides or significant post-fire slope instability. As detailed in **Section 4.11**, the surrounding area consists of vacant desert land and sparse industrial development. The property directly north abuts the dedication and dirt road of Sun Mesa Drive, with an undeveloped parcel beyond. That parcel is zoned Industrial. To the east, the adjacent property is zoned Commercial and is also vacant. The property to the south is developed with a commercial use, and the property to the west is developed with another commercial use.

Because the site and its surroundings do not include hillside areas or significant drainage channels, and the site is not located downstream of areas prone to wildfire burn scars, the risk of exposure to post-fire debris flows, flooding, or slope failure is minimal. Additionally, the project will be subject to a grading and drainage plan approved by the Town of Yucca Valley and the San Bernardino County Flood Control District, which will ensure proper site runoff management and minimize erosion or instability.

Therefore, the project would not expose people or structures to significant risk related to wildfire-induced hydrologic or geologic hazards would have a less than significant impact.

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Less Than Significant Impact

As discussed in **Section 4.10**, Hydrology and Water Quality, the project site is relatively flat, with no steep slopes or natural drainage courses onsite or in the immediate vicinity. The site is not located within a mapped landslide hazard zone or area of slope instability (Town of Yucca Valley, 2014). Drainage improvements would consist of curb, gutter, and an infiltration basin designed in accordance with Town of Yucca Valley Municipal Code \ Code § 9.37.060: Erosion Control, Runoff, and Enforcement and San Bernardino County Flood Control District standards.

The project would not substantially alter existing drainage patterns or create conditions that could lead to downstream flooding or post-fire slope instability. As noted in **Section 4.10(c)**, the project site lies within FEMA Flood Zone X, outside both the 100-year and 500-year flood hazard areas.

Because the site is level, located outside mapped flood or landslide zones, and would comply with applicable drainage and stormwater regulations, the project would not expose people or structures to significant risks from flooding, landslides, or post-fire slope instability. Therefore, impacts would be less than significant.

4.21 Mandatory Findings of Significance

Would the project have:	Potentially Significant Impact	Less than Significant Impact with Mitigation Incorporated	Less than Significant Impact	No Impact
a) Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?		**X**		
b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?		**X**		
c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?		**X**		

a) Would the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?

Less Than Significant Impact with Mitigation Incorporated

The project would not substantially degrade the environment because all potentially significant impacts related to biological resources, cultural resources, and tribal cultural resources are reduced to less than significant levels through implementation of the adopted mitigation measures. Biological mitigation measures, including **MM BIO-1** through **MM BIO-14**, require preconstruction surveys, burrowing owl protection, breeding bird protections, habitat avoidance, and construction best management practices that prevent disturbance to sensitive species. Cultural resource mitigation measures **MM CUL-1** and **MM CUL-2** ensure that any inadvertent discovery of archaeological resources or human remains is properly evaluated and treated by qualified professionals consistent

with state law. Tribal cultural resource measures **MM TCR-1** through **MM TCR-3** require tribal monitoring, treatment protocols, and avoidance procedures to protect potential tribal cultural materials during ground disturbance. Therefore, the project would not substantially degrade the environment or reduce populations of sensitive species, nor would it eliminate important examples of California prehistory or history. Impacts under this threshold would be less than significant with mitigation.

b) Would the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?

Less Than Significant Impact with Mitigation Incorporated

The project does not result in cumulatively considerable impacts because all potentially significant environmental effects are reduced to less than significant levels through implementation of project specific mitigation. Geologic hazards and paleontological impacts are addressed through **MM GEO-1** and **MM GEO2**, which require implementation of geotechnical recommendations and paleontological monitoring during ground disturbance. Biological mitigation measures **MM BIO-1** through **MM BIO-14** avoid and minimize impacts to sensitive species and habitat. Cultural resource measures **MM CUL-1** and **MM CUL-2** ensure proper evaluation and handling of archaeological resources and human remains. Tribal resource measures **MM TCR-1** through **MM TCR-3** ensure tribal participation and protection of potential tribal cultural resources. Because these measures fully mitigate project level impacts to less than significant levels, the project would not contribute to a cumulatively significant environmental effect. Therefore, the project's contribution to cumulative impacts is not considerable under CEQA Guidelines §15064(h)(1), and impacts would be less than significant with mitigation incorporated.

c) Would the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?

Less than Significant Impact with Mitigation Incorporated

The project would not cause substantial adverse effects on human beings because all potentially significant hazards are mitigated to less than significant levels. Geotechnical risks such as liquefaction or unstable soils are reduced through **MM GEO-1**, which requires incorporation of site specific geotechnical recommendations, and **MM GEO-2**, which establishes paleontological monitoring protocols that prevent unsafe or unregulated excavation activity. Construction phase biological and cultural mitigation (**MM BIO-1** through **MM BIO-14**, **MM CUL-1**, **MM CUL-2**) also reduce risks to workers and the public by requiring controlled procedures during ground disturbance. Noise, air quality, hazardous materials, and hydrology impacts analyzed in the technical sections were found to be less than significant or less than significant with mitigation incorporated. With implementation of all required mitigation measures, the project would not result in substantial adverse effects on human beings. Therefore, the project would not result in substantial adverse effects on human beings, either directly or indirectly, and impacts would be less than significant with mitigation.

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7.0 MITIGATION MONITORING AND REPORTING PROGRAM

The Mitigation Monitoring and Reporting Program (MMRP) has been prepared in conformance with Section 21081.6 of the California Public Resources Code and Section 15097 of the CEQA Guidelines. These provisions require that all state and local agencies establish a monitoring or reporting program whenever approval of a project is based on a Mitigated Negative Declaration (MND) or an Environmental Impact Report (EIR) that identifies significant environmental impacts which can be mitigated to a less than significant level. The MMRP serves as a critical compliance mechanism to ensure that mitigation measures adopted as conditions of project approval are properly implemented throughout the course of project development and operation.

> Public Resources Code § 21081.6(a)(1): *"The public agency shall adopt a reporting or monitoring program for the changes made to the project or conditions of project approval, adopted in order to mitigate or avoid significant effects on the environment."*.
>
> CEQA Guidelines § 15097(a): *"In order to ensure that the mitigation measures and project revisions identified in the EIR or negative declaration are implemented, the public agency shall adopt a program for monitoring or reporting on the revisions which it has required in the project and the measures it has imposed to mitigate or avoid significant environmental effects."*.

The MMRP is designed to ensure that the mitigation measures identified to reduce or avoid potentially significant adverse environmental effects are carried out as intended. Monitoring generally consists of ongoing or periodic oversight activities which may include field inspections, review of documentation, and evaluation of compliance actions. Reporting generally involves the preparation and submission of written compliance reviews or summary memos that are presented to the decision-making body or designated staff representative of the lead agency. These compliance reports serve to confirm whether each mitigation measure is being implemented in accordance with the conditions of approval and provide a basis for corrective action if noncompliance is observed.

The purpose of the MMRP is fourfold. First, it provides a structured framework for documenting the implementation of each required mitigation measure. Second, it identifies the specific agencies, departments, or parties responsible for implementing and monitoring each measure. Third, it creates a formal record of all monitoring and reporting actions to demonstrate full compliance with the environmental commitments made under CEQA. Fourth, it ensures that all mitigation measures that fall under the jurisdiction of the Town of Yucca Valley or the project applicant are fully and effectively carried out in a timely and verifiable manner.

The following table, titled **Table 7.0.1** Mitigation Monitoring and Reporting Program, presents a detailed summary of the environmental impacts and corresponding mitigation measures adopted by the Town of Yucca Valley in connection with the proposed project. The table also includes the level of significance remaining after mitigation, the parties responsible for implementation and monitoring, and the phase of the project during which the measure is to be applied, such as during planning, construction, or long-term operation.

Only those environmental topics for which mitigation is required are included in this Mitigation Monitoring and Reporting Program. This targeted approach ensures that mitigation tracking is manageable, legally sufficient, and appropriately focused on measures that are essential to reducing the project's potentially significant environmental impacts.

Table 7.0-1
MITIGATION MONITORING AND REPORTING PROGRAM

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
4.4 Biological Resources				
Threshold a): Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	**BIO-1: Biological Monitor** a) A biological monitor will be onsite to monitor activities that result in the clearing or grading of areas known to contain sensitive biological resources, such as western Joshua tree habitat, as well as ground-disturbing activities that impacts do not exceed the limits of construction and minimize the likelihood of inadvertent impacts to special-status plant and wildlife species. b) The biological monitor will ensure that all biological mitigation measures, best management practices (BMPs), avoidance and protection measures described in the relevant project permits and reports are in place and are adhered to. Monitoring will cease when the sensitive habitats and jurisdictional areas have been cleared or impacted. The biological monitor will take photographs throughout the construction process. Observations of special-status species will be recorded in monitoring logs, mapped, and special-status species records will be submitted to the California Natural Diversity Database (CNDDB) within five working days of the sightings, and CDFW will be provided with copies of the CNDDB forms and survey maps. Monitoring logs will be completed for each day of monitoring. c) The biological monitor will have the authority to halt all construction activities and all non-emergency actions if listed species are identified on the project site and will be directly impacted. The monitor will notify the appropriate resource agency and consult if needed. If needed, and if authorized by	Project Applicant Biological Monitor	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	the resource agencies, the monitoring biologist will relocate the individual outside of the work area where it will not be harmed. Work can continue at the location if CDFW and/or the USFWS determine that the activity will not result in impacts to the species. d) d) If sensitive biological resources are detected in an area to be impacted, then appropriate measures will be implemented by the biological monitor to avoid impacts (i.e., flag and avoid, erect orange snow fencing, biological monitor present during work, etc.). However, if avoidance is not possible and the sensitive biological resources will be directly impacted by project activities, the biological monitor will mark and/or stake the site(s) and map the individuals on an aerial map and with a GPS unit. The biologist will then contact the appropriate resource agencies to develop additional mitigation measures prior to commencing project activities. e) The construction crew will inspect excavated areas daily to detect the presence of trapped wildlife.			
	a) **BIO-2: Project Limits and Designated Areas** b) To avoid impacts to sensitive biological resources, the following measures will be implemented by the project proponent, contractors, and biological monitor prior to project staging, and commencement of any ground-disturbing activities or vegetation removal. c) Project boundary would be set at the minimum size to accomplish necessary work, resulting in minimal impacts to sensitive biological resources and jurisdictional areas. d) Specifications for the project boundary, limits of construction, project-related parking, storage areas, laydown sites, and equipment storage areas will be mapped and clearly marked in	Project Applicant Biological Monitor	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	the field with temporary fencing, signs, stakes, flags, rope, cord, or other appropriate markers. All markers will be maintained until the completion of activities in that area. e) To minimize the amount of disturbance, the construction/laydown areas, parking areas, staging areas, storage areas, spoil areas, and equipment access areas will be restricted to designated areas. To the extent possible, designated areas will comprise existing disturbed areas (parking lots, access roads, graded areas, etc.). f) Project-related work limits will be defined, and work crews will be restricted to designated work areas. Disturbance beyond the actual construction zone is prohibited without site-specific surveys. g) Project related vehicle traffic will be restricted to established roads, staging areas, and parking areas. Travel outside construction zones will be prohibited.			
	BIO-3: Western Joshua Tree Conservation Act Prior to the initiation of Joshua trees encroachment, trimming, pruning, or any activity that may result in take of Joshua trees (including removal of live and dead Joshua trees), the project proponent should obtain a California Endangered Species Act (CESA) Incidental Take Permits (ITP) under the western Joshua Tree Conservation Act (WJTCA) of Fish and Game Code (§§ 1927.3 and 1927.8). California Fish and Game Code § 86 defines "take" as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill". Mitigation will occur per the stem count per the WJTCA census in lieu fee, or as required by the ITP and WJTCA.	Project Applicant	Field Verification	1. CDFW 2. Town of Yucca Valley 3. Before Construction
	BIO-4: California Desert Native Plants Act Because species of the family Agavaceae (e.g., western Joshua Tree), which have been observed throughout the project site, are covered	Project Applicant	Field Verification	1. Town of Yucca Valley

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	under § 80073(b) of the California Desert Native Plants Act (CDNPA), any impacts will require a permit issued by the commissioner of the sheriff in San Bernardino County pursuant to Chapter 3 § 80073. Prior to commencement of construction activities, including but not limited to mobilization, fencing, staging, vegetation trimming or removal, or ground-disturbing activities, the project proponent will acquire a permit pursuant to Chapter 3 § 80101 and § 80073 of the California Desert Native Plants Act if any of the following species are observed on the project site: a) All species of the family Agavaceae (century plants, nolinas, yuccas) b) All species of the family Cactaceae (cacti), except for the plants listed in subdivisions (b) and (c) of Section 80072 which may be harvested under a permit obtained pursuant to that section c) All species of the family Fouquieriaceae (ocotillo, candlewood) d) All species of the genus Prosopis (mesquites) e) All species of the genus Cercidium (palos verdes) f) Acacia greggii (catclaw) g) Atriplex hymenelytra (desert-holly) h) Dalea spinosa (smoke tree) i) Olneya tesota (desert ironwood), including both dead and live desert ironwood.			2. Town of Yucca Valley 3. Before Construction
	BIO-5: Worker Environmental Awareness Program Worker Environmental Awareness Program (WEAP) for construction personnel shall be conducted and documented prior to onsite disturbances. The training shall include a discussion of the sensitive biological resources within the project site and the potential presence of special-status species. The WEAP shall also include a discussion of special-status species' habitats, protection measures to ensure species	Construction Supervisor Project Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	are not impacted by project activities, project boundaries, penalties for non-compliance, and biological conditions outlined in the project permits. All new employees shall be trained before they access the work site. New employees shall be trained and certified by the Construction Supervisor with the approval of the Project Biologist as approved by CDFW. Each trained individual shall be given a distinctive helmet sticker that will identify those who have received training, signed the training log, and demonstrated the required level of environmental awareness.			
	BIO-6: Construction Best Management Practices Project work crews will use CASQA (or similar) stormwater BMPs as directed by the project's Storm Water Pollution Prevention Plan (SWPPP). These measures will be identified prior to construction and incorporated into construction operations. The project's Qualified SWPPP Practitioner will ensure that construction activities will incorporate all applicable BMPs specified in the SWPPP to prevent erosion from water or wind, sedimentation of receiving waters, and introduction of other pollutants, including non-stormwater pollutants, into drainages crossed by or adjacent to the project site, accidental spills in the project site, including laydown yards and parking areas. BMPs will be maintained on a regular basis pursuant to the requirements of the SWPPP	Project Applicant Qualified SWPPP Practitioner	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction
	Bio-7: Pre-Construction Desert Tortoise Survey Prior to the commencement of project activities, including but not limited to ground disturbance, pre-construction surveys following guidance in the United States Fish and Wildlife's (USFWS) *Preparing for Any Action That May Occur Within the Range of the Mojave Desert Tortoise* (*Gopherus agassizii;* "Guidelines") will be implemented. The Guidelines recommend the applicant contact USFWS prior to surveys. Qualified biologists will conduct pre-construction surveys for desert tortoise no more than 48 hours prior to initiation of Project activities	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	and after any pause in Project activities lasting 30 days or more. The qualified biologists will follow USFWS's Desert Tortoise (Mojave Population) Field Manual (*Gopherus agassizii; "*Field Manual"). The qualified biologist will record all signs of desert tortoise, such as scat, burrows, carcasses, courtship rings, drinking depressions, and live sightings, as described in the Field Manual. The qualified biologist will provide a report with a map of the surveyed area (including transects, desert tortoises, and sign) and description of habitat conditions. Should positive survey results occur, the project applicant will secure an incidental take permit under Section 10 of FESA and State incidental take permit under Section 2081 of the Fish and Game Code.			
	BIO-8: Pre-construction Wildlife Surveys Prior to issuance of grading permits, a qualified biologist will conduct pre-construction surveys within areas of suitable habitat for special-status terrestrial wildlife species identified as having moderate or greater potential to occur onsite. Pre-construction surveys will be conducted three days before the commencement of construction activities. If construction activities onsite lapse for one week or more, approved work areas will be re-surveyed by the biologist for new occurrences of the special-status wildlife species. Further consultation with wildlife agencies will be necessary if special-status species are observed onsite and prior to commencing construction activities.	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction
	a) **BIO-9: General Wildlife Avoidance and Protection Measures** b) The project proponent would implement the following general avoidance and protection measures to protect wildlife. c) To minimize construction-related mortalities of nocturnally active wildlife species, it is recommended that all non-emergency work be conducted during daylight	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	hours. All unnecessary lights shall be turned off at night to avoid attracting wildlife. Nighttime work (and use of artificial lighting) would not be permitted unless specifically authorized. d) If any wildlife is encountered during project activities, it will be allowed to freely leave the area unharmed or the biological monitor will capture the animal, if authorized, and relocate it outside of the construction work limits out of harm's way. e) Listed wildlife species will not be captured, handled, or relocated without specific written authorization from CDFW and/or USFWS. f) Wildlife would not be disturbed, captured, harassed, or handled, unless to relocate the animal out of imminent threat of injury or death. Animal nests, burrows and dens would not be disturbed without prior survey and authorization from the biological monitor. g) Active and inactive nests cannot be removed or disturbed. h) Contractors, subcontractors, employees, and site visitors would be prohibited from feeding or collecting wildlife. i) To avoid the potential for mortality and harassment of wildlife, all non-security related firearms, weapons, and domestic dogs would be prohibited from the project site. j) Contractors, subcontractors, employees, and site visitors shall inspect their vehicles and equipment for the presence of wildlife prior to moving their vehicles and equipment. The biological monitor shall be contacted if a special-status species is detected and is in danger of being harmed. k) All steep-walled pitfalls (trenches, holes, bores, and other excavations) greater than two feet deep used during the			

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	project would be completely covered at all times except when being actively used, to prevent wildlife entrapment (i.e. reptiles and small mammals). If trenches cannot be covered, escape ramps (maximum slope of 2:1) will be provided to allow trapped animals to escape. Exclusion fencing shall be installed around the trench or excavation. Trenches shall be inspected and wildlife removed immediately before backfilling. l) All onsite project workers shall look under their vehicles and equipment before movement. If wildlife is observed, no vehicles or equipment shall be moved until the animal has left the area voluntarily or can be legally relocated. m) Equipment maintenance, lighting, and staging will occur only in designated areas, and shall not block or impede wildlife movement.			
	BIO-10: Pre-Construction Burrowing Owl Surveys A qualified biologist shall conduct a pre-construction BUOW survey in accordance with the *Staff Report on Burrowing Owl Mitigation* (CDFW, 2012) or current CDFW guidance/protocol if changes to the aforementioned 2012 guidance have occurred. A pre-construction BUOW survey (Take Avoidance Survey) shall be conducted no more than 14 days prior to any site disturbance (grubbing, grading, and construction) and again 24 hours prior to ground disturbing activities. Although BUOW was not detected on site during the reconnaissance-level surveys, the BSA contains suitable habitat to potentially support BUOW. The qualified biologist will identify, record, and map with a global positioning system (GPS) unit BUOWs and their sign. Detailed notes and wildlife species encountered during the surveys shall be recorded in field notes.	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	If an occupied burrow is found (as indicated by the observation of a burrowing owl or the presence of burrowing owl sign), a 250-foot buffer around the burrow will be staked and flagged and no construction activities will be allowed within the buffer area during the breeding season (February 1 through August 31). The qualified biologist will contact CDFW to assist in the preparation of an Incidental Take Permit (ITP), and development of avoidance, minimization, and mitigation measures, prior to commencing project activities. A relocation program may be necessary and shall be approved by CDFW prior to commencing project activities. If no BUOWs or signs of BUOWs are observed during the preconstruction surveys and concurrence is received from CDFW, project activities may begin, and no further mitigation shall be required.			
	a) **BIO-11: Pre-Construction Breeding Bird Survey** b) If vegetation removal is scheduled within the nesting season, a qualified biologist will conduct a pre-construction nesting bird survey to maintain compliance with the Migratory Bird Treaty Act (MBTA) and the California Fish and Game Code (§§ 3503 and 3503.5), which prohibit take of nesting birds and nests of migratory and non-game bird species. Nesting season is generally considered to be: c) January 1-July 30 for raptors. d) February 1-September 15 for non-raptors. e) A qualified biologist will conduct pre-construction surveys no more than five days prior to when project activities (e.g., mobilization, excavation, grading, vegetation removal) are underway. Should a lapse in project activity be greater than five days, a qualified biologist will conduct additional surveys to maintain compliance. To maximize the detection of nesting birds, surveys must be conducted	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	in work areas (e.g., staging, stockpiling, storage, equipment yards, access roads) during favorable weather conditions. A wide variety of shelters and resources are used by avian species; these include barren ground, grasses, forbs, shrubs, trees, rocky outcrops, and man-made structures (dependent on species and conditions). The qualified biologists will interpret physical signs for nesting structures (e.g., manipulation of materials like mud or grass) and direct signs of life (e.g., courtship behaviors, gathering, swooping, alarm calls, pellets). f) If nests are encountered, a qualified biologist will consider individual species tolerance, proximity to construction activity, noise impacts, line-of-sight barriers, and distance (horizontal and vertical) to determine if planned construction activities would impact nesting success. The rate and duration of construction activities will also be considered should the modification of scheduled activities be required to maintain healthy nesting outcomes. g) If the qualified biologist determines construction activities will potentially adversely affect a nest, the biologist must immediately inform the construction manager to halt construction activities (i.e., establish a no-work zone) within a minimum exclusion buffer of 100 feet for songbird nests and 200-500 feet for raptor nests. This no-work zone lawfully avoids the "take" of nesting birds and the mortality of eggs and younglings. Construction activities within the no-work buffer may proceed after a qualified biologist determines the young have successfully fledged the nest and are no longer dependent upon the nest or parents. h) If federal or state protected species are observed during surveys, USFWS and CDFW will be consulted to determine			

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	the appropriate time for project activities to proceed and what specific measures will be taken to ensure protected species are not impacted.			
	BIO-12: Pre-Construction Desert Kit Fox and American Badger Surveys Desert kit fox is a protected species under CCR Title 14, § 460. No more than 14 days prior to the beginning of ground disturbance and/or Project activities, a qualified biologist shall conduct pre-construction surveys to determine if potential desert kit fox burrows/dens are present in the project area. Pre-construction surveys should include transect surveys at a 20-meter transect distance to ensure 100 percent visual coverage of the project area. Surveys may be combined for similar fossorial mammals, such as American badger; combined, concurrent surveys for dissimilar taxa (e.g. plants or birds) shall be prohibited. Use of wildlife camera monitoring to determine presence/absence and burrow/den use is strongly encouraged, in accordance with CDFW approved methods, including *Remote Camera Trap Installation and Servicing Protocol Citizen Wildlife Monitoring Project 2017 Field Season* (Moskowitz and Huyett, 2017) and *Camera-trapping for conservation: a guide to best-practices* (Oliver R. Wearn & Paul Glover-Kapfer, 2017). The pre-construction survey reports will include: (1) the number, location, and status determination of potential desert kit fox and/or badger dens identified during the reporting period, (2) occupancy monitoring status, (3) species present, and (4) estimated number of individuals and associated behaviors observed. Desert kit fox and badger images will additionally be stored on a cloud-based server and additional relevant data will be made available to CDFW upon request. If the pre-construction surveys confirm occupied desert kit fox habitat, project activities shall be immediately halted, and the qualified biologist	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	shall notify CDFW to develop avoidance, minimization, and mitigation measures within a Desert Wildlife Management Plan. No disturbance of active dens shall take place when juvenile desert kit fox may be present and dependent on parental care. Sick or injured animals will be reported to CDFW within 24 hours of discovery.			
Threshold b): Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	Reference **MM BIO-1** thru **MM BIO 6** above.			
Threshold e): Would the project conflict with any local policies or ordinances protecting biological resources, such as	**BIO-13: Protective Fencing of No Work Areas** Protective fencing shall be installed around the perimeter of ecologically sensitive areas, which will be designated as No Work Areas, including around the perimeter of western Joshua trees scheduled to be transplanted, and native vegetation communities adjacent to work areas, before commencement of staging, fencing, clearing, grading, or other construction activities. The installation of fencing and protection measures around trees and vegetation will comply with the Town's	Project Applicant	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
a tree preservation policy or ordinance?	Native Desert Vegetation Ordinance. The tree protection zone for Joshua tree is a 40-foot radius around the trunk of the tree. Fencing shall be maintained in place during all construction. No construction, grading, staging, or material storage will be allowed within the fence exclusion areas, or within the protected zones of any onsite native trees.			
	BIO-14: Yucca Valley Development Code Section 9.10.040 A native landscaping documentation package ("report") will be submitted to the division and at the time of filing land use applications (i.e., prior to any land disturbing or development activity) and may be combined with landscaping and water conservation requirements (Town of Yucca Valley, 2014). The report will include a) the botanical and common names of regulated native desert plants, b) the precise location of each regulated desert native plant, c) the trunk or stem diameter of each regulated desert native plant, d) the height of each desert regulated native plant, e) the health or condition, including those unlikely to survive transplanting, of all regulated desert native plants, and f) the proposed placement of the regulated desert plant (i.e., the transplant site, removal determination, or adopt offsite). Should a plant be determined as likely to survive transplanting by a qualified biologist, it shall be made available for adoption or transplanted onsite as part of the project's landscaping plan, which should maximize the use of native desert plants. The project applicant shall provide a thirty-day notice followed by a thirty-day adoption period; the adoption period may be less than thirty days should all plants be adopted. Adoption should be prioritized in the Town of Yucca Valley, with second priority to the Morongo Basin. It is recommended the thirty-day adoption signage period commences with the submittal of the desert native plant permit. Signage posting will follow the requirements found in 9.10.040E. All regulated desert native plants within the adoption program will a) receive written permission to be obtained by the property owner, b) have consideration of lant's original	Project Applicant	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	and transplanted physical orientation, prevailing wind direction, soil type of the original and transplanted locations, and other related attributes which may affect the successful transplantation, and c) have a maintenance plan considering watering schedules, stockpile location, support, and the method of trap fencing. Plants which are not adopted within the thirty-day period may be removed.			
4.5 Cultural Resources				
Threshold 4.5 b): Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5.	**MM CUL-1:** If archaeological resources are discovered during construction activities, the contractor will halt construction activities in the immediate area and notify the Town of Yucca Valley (California Code of Regulations, Title 14, Chapter 3, Section 15064.5(f)). The project applicant shall retain an archaeologist who meets the Secretary of the Interior's Professional Qualifications Standards for Archaeology who will be notified and afforded the necessary time to recover, analyze, and curate the find(s). The qualified archaeologist will recommend the extent of archaeological monitoring necessary to ensure the protection of any other resources that may be in the area. Any identified cultural resources shall be recorded on the appropriate DPR 523 (A-L) form and filed with the South Central Coastal Information Center. Construction activities may continue on other parts of the project site while evaluation and treatment of prehistoric archaeological resources takes place.	Project Construction Contractor Qualified Archaeologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. During Construction
Threshold 4.5 c): Disturb any human remains, including those interred	**MM CUL-2:** If human remains are encountered during excavations associated with this project, all work will stop within a 30-foot radius of the discovery,	Project Construction Contractor	Field Verification	1. Town of Yucca Valley

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
outside of formal cemeteries.	and the San Bernardino County Coroner will be notified (§ 5097.98 of the Public Resources Code). The Coroner will determine whether the remains are recent human origin or older Native American ancestry. If the coroner, with the aid of the supervising archaeologist, determines that the remains are prehistoric, they will contact the NAHC. The NAHC will be responsible for designating the Most Likely Descendant (MLD). The MLD (either an individual or sometimes a committee) will be responsible for the ultimate disposition of the remains, as required by § 7050.5 of the California Health and Safety Code. The MLD will make recommendations within 24 hours of their notification by the NAHC. These recommendations may include scientific removal and nondestructive analysis of human remains and items associated with Native American burials (§ 7050.5 of the Health and Safety Code).	San Bernardino County Coroner		2. Town of Yucca Valley 3. Before Construction
4.7 Geology and Soils				
Threshold 4.7 e): Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	**MM GEO-1:** Prior to the issuance of the grading permit, the applicant shall provide a letter to the Town of Yucca Valley Planning Division, or designee, from a qualified paleontologist stating that the paleontologist has been retained to provide services for the project. The paleontologist shall develop, as needed, a Paleontological Resources Impact Mitigation Plan (PRIMP) to mitigate the potential impacts to unknown buried paleontological resources that may exist onsite for the review and approval by the City. The PRIMP shall require that the paleontologist perform periodic paleontological monitoring of any ground disturbing activities within undisturbed native sediments during mass grading, site preparation, and underground utility installation. The project paleontologist may reevaluate the necessity for paleontological monitoring after 50 percent or greater of the excavations have been completed. In the event paleontological resources are encountered, ground-disturbing activity within 50 feet of the area of the discovery shall cease. The paleontologist shall examine the materials encountered, assess the nature and extent of	Project Applicant Qualified Paleontologist Construction Contractor	Monitoring, Assessment, Recovery, and Curation	1. Town of Yucca Valley 2. Town of Yucca Valley 3. During Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	the find, and recommend a course of action to further investigate and protect or recover and salvage those resources that have been encountered. Criteria for discarding specific fossil specimens shall be made explicit. If the qualified paleontologist determines that impacts to a sample containing significant paleontological resources cannot be avoided by project planning, then recovery may be applied. Actions may include recovering a sample of the fossiliferous material prior to construction, monitoring work and halting construction if a significant fossil needs to be recovered, and/or cleaning, identifying, and cataloging specimens for curation and research purposes. Recovery, salvage and treatment shall be done at the Applicant's expense. All recovered and salvaged resources shall be prepared to the point of identification and permanent preservation by the paleontologist. Resources shall be identified and curated into an established accredited professional repository such as the San Bernardino County Museum. The paleontologist shall have a repository agreement in hand prior to initiating recovery of the resource.			
4.18 Tribal Cultural Resources				
Threshold 4.18 b): Cause a substantial adverse change in the significance of a tribal cultural resource that is determined to be a significant resource to a California Native American tribe pursuant to the	**MM TCR-1:** Treatment of Cultural Resources During Project Implementation. If a pre-contact cultural resource is discovered during project implementation, ground-disturbing activities shall be suspended 60 feet around the resource(s), and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed. The Project Archaeologist shall develop a research design that shall include a plan to evaluate the resource for significance under CEQA criteria. Representatives from Yuhaaviatam of San Manuel Nation (YSMN) and Morongo Band of Mission Indians (Morongo), the Archaeologist, and the Lead Agency shall confer regarding the research design, as well as any testing efforts needed to delineate the resource boundary. Following the completion of evaluation efforts, all parties	Project Applicant	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Prior to commencement of any "ground-disturbing activity"

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
criteria set forth in subdivision (c) of Public Resource Code § 5024.1(c)?	shall confer regarding the resource's archaeological significance, its potential as a Tribal Cultural Resource (TCR), and avoidance (or other appropriate treatment) of the discovered resource. Removal of any cultural resource(s) shall be conducted with the presence of a Tribal monitor representing the Tribes, unless otherwise decided by YSMN and Morongo. All plans for analysis shall be reviewed and approved by the applicant and YSMN and Morongo prior to implementation, and all removed material shall be temporarily curated on-site. It is the preference of YSMN that removed cultural material be reburied as close to the original find location as possible. However, should reburial within/near the original find location during project implementation not be feasible, then a reburial location for future reburial shall be decided upon by YSMN and Morongo, the landowner, and the Lead Agency, and all finds shall be reburied within this location. Additionally, in this case, reburial shall not occur until all ground-disturbing activities associated with the project have been completed, all monitoring has ceased, all cataloguing and basic recordation of cultural resources have been completed, and a final monitoring report has been issued to Lead Agency, CHRIS, YSMN and Morongo. All reburials are subject to a reburial agreement that shall be developed between the landowner, YSMN and Morongo outlining the determined reburial process/location, and shall include measures and provisions to protect the reburial area from any future impacts. Should it occur that avoidance, preservation in place, and on-site reburial are not an option for treatment, the landowner shall relinquish all ownership and rights to this material and confer with YSMN and Morongo to identify an American Association of Museums (AAM)-accredited facility within the County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriate qualified repository shall be developed between the landowner and museum that legally and			

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the obligation of the Project developer/applicant to pay for those fees. All draft records/reports containing the significance and treatment findings and data recovery results shall be prepared by the archaeologist and submitted to the Lead Agency and YSMN and Morongo for their review and comment. After approval from all parties, the final reports and site/isolate records are to be submitted to the local CHRIS Information Center, the Lead Agency, YSMN and Morongo.			
	MM TCR-2: Inadvertent Discoveries of Human Remains. If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project	Project Applicant Qualified Archeologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. During Construction
	MM TCR-3: **Tribal Cultural Resources Monitoring.** In consultation with interested tribes, the developer, and the Town of Yucca Valley, a Tribal Monitoring Plan (TMP) will be prepared to address the details, timing, and responsibility Tribal Monitoring activities that will occur on the project site. Details in the TMP shall include: 4. Monitoring of project-related ground disturbance (including, but not limited to, brush clearing, grading, trenching, etc.) coordinated with these construction-related activities. 5. The development of a concurrent monitoring schedule in coordination with the developer and the designated Native American Tribal Monitors from the consulting tribes during grading, excavation and ground disturbing activities on the site: including	Project Applicant San Bernardino County Coronerhuman remains, to a	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. During Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	the scheduling, safety requirements, duties, scope of work, and Native American Tribal Monitors' authority to stop and redirect grading activities in coordination with the project archaeologist. 6. The protocols and stipulations that the developer, City, Tribes, and project archaeologist will follow in the event of inadvertent TCR discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.			

SUN MESA SELF-STORAGE FACILITY
(APN 0597-111-67-0000)

RESPONSES TO COMMENTS
INITIAL STUDY AND MITIGATED NEGATIVE DECLARATION
(IS/MND)

Prepared for:

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February 2026

Project No. 7335

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ATTACHMENTS

Attachment A Notice of Intent to Adopt a Mitigated Negative Declaration (NOI)
Attachment B NOI Posting at the State of California, Office of Planning and Research Clearinghouse
Attachment C County Clerk of the Board NOI Posting
Attachment D Letters from the Town to the Native American Tribes Relating to AB 52

1.0 INTRODUCTION

This Responses to Comments (RTC) document, in conjunction with the Draft Initial Study/Mitigated Negative Declaration (IS/MND) responds to comments on the proposed Sun Mesa Self-Storage Facility (project). While the State of California Environmental Quality Act (CEQA) Guidelines do not require a final initial study or the preparation of formal responses to comments received during the public review period for an Initial Study/Mitigated Negative Declaration,[1] to provide further disclosure about the proposed project the Town of Yucca Valley (Town) is making available responses to the comments it received during the public review process.

1.1 Background of Environmental Review Process for the Project

The IS/MND, along with a Notice of Intent to Adopt a Mitigated Negative Declaration (NOI, see **Attachment A**), was released for public and agency review on January 23, 2026, with a 30-day review period ending on February 23, 2026. In addition, the NOI was posted on the State Clearinghouse on June 19, 2025. See **Attachment B**.

The NOI was also posted at the San Bernardino County Clerk-Recorder on or around January 16, 2026 (see **Attachment C**), and copies of the IS/MND were made available for review at the following locations:

- Town of Yucca Valley Website: https://www.yucca-valley.org/home/showpublisheddocument/9478/639041777702868221

- Town of Yucca Valley – Community Development Department, 58928 Business Center Drive, Yucca Valley, CA 92284

A hard copy of the NOI was mailed to:

- Residents and property owners, located within 500 feet of the project site.

A hard copy of the NOI was sent via US Mail on July 18, 2025 to the following entities:

- Burrtec Waste Industries
- California Regional Water Quality Control Board/Colorado River Regional Water Board
- Caltrans-District 8
- City of Twentynine Palms
- Copper Mountain Community College
- Frontier Communications Engineering Department
- Hi-Desert Water District
- Joshua Tree National Park
- MAGTFTC/MCAGCC
- Mojave Desert Air Quality Management District
- Morongo Basin Transit Authority

1 CEQA only requires the lead agency to respond to comments that are received in response to an environmental impact report (Title 14, California Code of Regulations, § 15088, Evaluation of and Response to Comments).

- Morongo Unified School District
- SBCTA
- San Bernardino County Fire
- San Bernardino County - Department of Public Health
- San Bernardino County - Land Use Service
- San Bernardino County - Public Works/Flood Control
- San Bernardino County - Sheriff's Department
- Southern California Edison
- Southern California Gas
- State Department of Fish & Game
- U.S. Fish and Wildlife Service
- U.S. Postal Service
- Yucca Valley Airport District
- Yucca Valley Fire District
- NRO

1.2 Tribal Consultation

The Town of Yucca Valley (the lead agency) initiated AB 52 outreach to nine local native American tribes for the Sun Mesa Self-Storage Facility Project on or around April, 04, 2024, pursuant to Public Resources Code § 21074. (see **Attachment D**) The Town prepared letters to these tribes on their list for AB 52 contact, informing them of the project. The letters were sent by Jared Jarome, Associate Planner, on April 04, 2024 via email to the following tribes:

- Colorado River Indian Tribe
- Fort Mojave Indian Tribe
- Chemehuevi Reservation
- Coachella Indians
- Morongo Band of Mission Indians
- Ramona Band of Cahuilla Mission Indians
- San Manuel Band of Mission Indians
- Serrano Nation of Indians
- Twenty-Nine Palms Band of Mission Indians

The Agua Caliente Band of Cahuilla Indians responded by email on October 10, 2025 indicating that the project area is not located within the boundaries of the ACBCI Reservation, but it is within the Tribe's Traditional Use Area, Due to this, the Tribe requests consultation on this project. In a follow up letter received November 3, 2025, Anthony Kline, Cultural Resources Analyst indicated that for this project a Cultural Resource Monitor(s) from a Consulting tribe should be onsite during all ground disturbing activities, including testing and surveys and can request that construction halt if resources are encountered. The tribe also requested that the archaeologist on site must meet the Secretary of Interior's standards. The last request from the tribe is that if any Tribal Cultural Material is found, in collaboration with Agua Caliente, it be reburied on site if avoidance is not feasible. The tribe also asked to review San Manuel's Mitigation measure and that it no other consultation tribe requests monitoring to please contact Agua Caliente to provide that service. The Mitigation Measures from the San Manuel Band of Indians was provided to the tribe on November 3, 2025. Mr. Jerome provided the TCR section for review and the tribe provided two comments.

Given the local Native American tribal concerns for potential traditional cultural resources, mitigation measures provided by the Yuhaaviatam of San Manuel Nation will be implemented to further reduce potential impacts to less than significant levels. At the request of the Morongo Band of Mission Indians a Mitigation Measure for Tribal Monitoring will be included. Consultation has been concluded for this project as of November 17, 2025.

1.3 Responses to Comments

This document provides a response to comments received on the IS/MND. Two comment letters were received during the public review period. These letters are in **Section 2.0**, Public Comment Letters.

1.4 Intended Uses of this IS/MND

The IS/MND will be used by the Town in considering approval of the proposed project. In accordance with CEQA Guidelines § 15074, the IS/MND will be used as the primary environmental document in consideration of all subsequent planning and permitting actions associated with the proposed project, to the extent such actions require CEQA compliance and as otherwise permitted under applicable law.

15074. CONSIDERATION AND ADOPTION OF A NEGATIVE DECLARATION OR MITIGATED NEGATIVE DECLARATION.

(a) Any advisory body of a public agency making a recommendation to the decision-making body shall consider the proposed negative declaration or mitigated negative declaration before making itsrecommendation.

(b) Prior to approving a project, the decision-making body of the lead agency shall consider the proposed negative declaration or mitigated negative declaration together with any comments received during the public review process. The decision-making body shall adopt the proposed negative declaration or mitigated negative declaration only if it finds on the basis of the whole record before it (including the initial study and any comments received), that there is no substantial evidence that the project will have a significant effect on the environment and that the negative declaration or mitigated negative declaration reflects the lead agency's independent judgment and analysis.

(c) When adopting a negative declaration or mitigated negative declaration, the lead agency shall specify the location and custodian of the documents or other material which constitute the record of proceedings upon which its decision is based.

(d) When adopting a mitigated negative declaration, the lead agency shall also adopt a program for reporting on or monitoring the changes which it has either required in the project or made a condition of approval to mitigate or avoid significant environmental effects.

(e) A lead agency shall not adopt a negative declaration or mitigated negative declaration for a project within the boundaries of a comprehensive airport land use plan or, if a comprehensive airport land use plan has not been adopted, for a project within two nautical miles of a public airport or public use airport, without first considering whether the project will result in a safety hazard or noise problem for persons using the airport or for persons residing or working in the project area.

(f) When a non-elected official or decision-making body of a local lead agency adopts a negative declaration or mitigated negative declaration, that adoption may be appealed to the agency's elected decision-making body, if one exists. For example, adoption of a negative declaration for a project by a city's planning commission may be appealed to the city council. A local lead agency may establish procedures governing such appeals.

Upon review and consideration of the IS/MND, the Town may take action to adopt, revise, or reject the proposed project. A decision to approve the proposed project would be made in a resolution recommending certification of the IS/MND as part of the consideration of the proposed project. The Town has prepared this IS/MND and has determined that the environmental impacts of the proposed project have been reduced to a less than significant level through mitigation measures.

2.0 PUBLIC COMMENT LETTERS

The following agencies and entitles submitted written comments on the IS/MND, during the public review period. The comment letters are provided in **Attachment E** of this document.

Letter	Agency, Organization, or Individual	Date
A	**Madison Jaimes**	**02/02/2026**
Comment A-1	To whom it may concern, Recently I received a Notice of Intent to Adopt a Mitigated Negative Declaration for the Sun-Mesa Self-Storage Facility. I am a very nearby resident and I am inquiring for more information regarding the proposed facility. After doing my own research, I cannot find much on the proposed project besides a very long document with minor details. In the proposal, multiple promises are made for deliverables concerning the project's impact on the environment and surrounding communities, but those were not included in the notice I received, nor were instructions on how to retrieve them. I would like to provide a more educated comment before the comment period is over or the tentatively scheduled public hearing, but without any materials whatsoever concerning project plans, timeline, or impact I am asking for more. As a nearby resident I strongly oppose the proposal of a business that is not needed in this community as we already have plenty of local storage facilities in town that are under capacity. Not only would it be a disturbance to our peaceful lives, but it would destroy multiple Western Joshua Trees, disturbing animal and wildlife habitats, and create prolonged and needless construction noise in an otherwise peaceful area of Yucca Valley. I urge you to reconsider the facility. Thank you for your time.	
Response A-1	Comments noted. Mitigation measures are included to minimize or mitigate impact on western Joshua Trees, wildlife and habitat.	
B	**Brendan Fugate**	**02/02/2026**
Comment B-1	Hello, I recently received a Notice of Intent to Adopt a Mitigated Negative Declaration for the Sun-Mesa Self-Storage Facility. As someone who lives very near the proposed site, I would very much like some more information. The only thing I was able to turn up from a document search through the town website was what appears to be the initial lengthy proposal by UltraSystems on June 3, 2025. In this proposal, multiple promises are made for deliverables concerning the project's impact on the environment and surrounding communities, but those were not included in my notice, nor were instructions on how to retrieve them. It's difficult to provide an educated comment during the current comment period, or the tentatively scheduled public hearing, without any materials whatsoever concerning project plans, timeline, or impact. If you could direct me to such documents, I would be appreciative. Otherwise, I must express my opposition to the proposal of a seemingly redundant business (local storage facilities are not operating anywhere close to capacity) that would destroy multiple Western Joshua Trees, disturb animal habitat, and create prolonged and needless construction noise in an otherwise peaceful area of Yucca Valley. Thank you for your time.	
Response B-1	Comments noted. Mitigation measures are included to minimize or mitigate impact on western Joshua Trees, wildlife and habitat.	

B	Claire Armstrong	02/13/2026
Comment C-1	hello i'm writing to address the proposed construction of a storage facility on sun mesa & newton on the yucca mesa. please do not allow this plan to move forward! this is a beautiful peace of untouched land, which is sadly becoming rarer. i live within a few blocks of this intersection; my dog & i take daily walks here. we do not need another storage facility in the desert, let alone in this specific & gorgeous area. thank you	
Response C-1	Comments noted.	

Comment Letter A

From: Madison Jaimes <madisonjaimes92@gmail.com>
Sent: Monday, February 2, 2026 8:19 PM
To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Subject: IS/MND for Sun Mesa Self-Storage Facility

Comment Letter A

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern,
Recently I received a Notice of Intent to Adopt a Mitigated Negative Declaration for the Sun-Mesa Self-Storage Facility. I am a very nearby resident and I am inquiring for more information regarding the proposed facility. After doing my own research, I cannot find much on the proposed project besides a very long document with minor details. In the proposal, multiple promises are made for deliverables concerning the project's impact on the environment and surrounding communities, but those were not included in the notice I received, nor were instructions on how to retrieve them. I would like to provide a more educated comment before the comment period is over or the tentatively scheduled public hearing, but without any materials whatsoever concerning project plans, timeline, or impact I am asking for more. As a nearby resident I strongly oppose the proposal of a business that is not needed in this community as we already have plenty of local storage facilities in town that are under capacity. Not only would it be a disturbance to our peaceful lives, but it would destroy multiple Western Joshua Trees, disturbing animal and wildlife habitats, and create prolonged and needless construction noise in an otherwise peaceful area of Yucca Valley. I urge you to reconsider the facility. Thank you for your time.
Sincerely,
Madison Jaimes
4866 Terry Lane
Yucca Valley, CA 92284

A-1

Comment Letter B

-----Original Message-----
From: Branden Fugate <brandenfugate@gmail.com>
Sent: Monday, February 2, 2026 6:21 PM
To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Subject: Public comment re: IS/MND for the Sun Mesa Self-Storage Facility

Comment Letter B

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello,

I recently received a Notice of Intent to Adopt a Mitigated Negative Declaration for the Sun-Mesa Self-Storage Facility. As someone who lives very near the proposed site, I would very much like some more information. The only thing I was able to turn up from a document search through the town website was what appears to be the initial lengthy proposal by UltraSystems on June 3, 2025. In this proposal, multiple promises are made for deliverables concerning the project's impact on the environment and surrounding communities, but those were not included in my notice, nor were instructions on how to retrieve them. It's difficult to provide an educated comment during the current comment period, or the tentatively scheduled public hearing, without any materials whatsoever concerning project plans, timeline, or impact. If you could direct me to such documents, I would be appreciative. Otherwise, I must express my opposition to the proposal of a seemingly redundant business (local storage facilities are not operating anywhere close to capacity) that would destroy multiple Western Joshua Trees, disturb animal habitat, and create prolonged and needless construction noise in an otherwise peaceful area of Yucca Valley. B-1

Thank you for your time.

Respectfully,

Branden Fugate
4866 Terry Ln
Yucca Valley, CA 92284

Comment Letter C

-----Original Message-----
From: claire armstrong <armstrong.clar@gmail.com>
Sent: Friday, February 13, 2026 11:39 PM
To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Subject: sun mesa & newton storage facility

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

hello
i'm writing to address the proposed construction of a storage facility on sun mesa & newton on the yucca mesa. please do not allow this plan to move forward! this is a beautiful peace of untouched land, which is sadly becoming rarer. i live within a few blocks of this intersection; my dog & i take daily walks here. we do not need another storage facility in the desert, let alone in this specific & gorgeous area.
thank you
claire armstrong

Sent from my iPhone

3.0 ERRATA

No errors were reported.

4.0 FINAL MITIGATION MONITORING AND REPORTING PROGRAM

The Final Mitigation Monitoring and Reporting Program (MMRP) has been prepared in conformance with § 21081.6 of the Public Resources Code and § 15097 of the CEQA Guidelines, which requires all state and local agencies to establish monitoring or reporting programs whenever approval of a project relies upon a MND or an EIR. The MMRP ensures implementation of the measures being imposed to mitigate or avoid the significant adverse environmental impacts identified through the use of monitoring and reporting. Monitoring is generally an ongoing or periodic process of project oversight; reporting generally consists of a written compliance review that is presented to the decision-making body or authorized staff person.

It is the intent of the MMRP to: (1) provide a framework for document implementation of the required mitigation; (2) identify monitoring/reporting responsibility; (3) provide a record of the monitoring/reporting; and (4) ensure compliance with those MMs that are within the responsibility of the City and/or Applicant to implement.

The following table lists impacts, mitigation measures adopted by the Town of Joshua Tree in connection with approval of the proposed project, level of significance after mitigation, responsible and monitoring parties, and the project phase in which the measures are to be implemented.

Only those environmental topics for which mitigation is required are listed in this Mitigation Monitoring and Reporting Program.

Table 4.0-1
FINAL MITIGATION MONITORING AND REPORTING PROGRAM

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
4.4 Biological Resources				
Threshold a): Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	**BIO-1: Biological Monitor** a) A biological monitor will be onsite to monitor activities that result in the clearing or grading of areas known to contain sensitive biological resources, such as western Joshua tree habitat, as well as ground-disturbing activities that impacts do not exceed the limits of construction and minimize the likelihood of inadvertent impacts to special-status plant and wildlife species. b) The biological monitor will ensure that all biological mitigation measures, best management practices (BMPs), avoidance and protection measures described in the relevant project permits and reports are in place and are adhered to. Monitoring will cease when the sensitive habitats and jurisdictional areas have been cleared or impacted. The biological monitor will take photographs throughout the construction process. Observations of special-status species will be recorded in monitoring logs, mapped, and special-status species records will be submitted to the California Natural Diversity Database (CNDDB) within five working days of the sightings, and CDFW will be provided with copies of the CNDDB forms and survey maps. Monitoring logs will be completed for each day of monitoring. c) The biological monitor will have the authority to halt all construction activities and all non-emergency actions if listed	Project Applicant Biological Monitor	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	species are identified on the project site and will be directly impacted. The monitor will notify the appropriate resource agency and consult if needed. If needed, and if authorized by the resource agencies, the monitoring biologist will relocate the individual outside of the work area where it will not be harmed. Work can continue at the location if CDFW and/or the USFWS determine that the activity will not result in impacts to the species. d) d) If sensitive biological resources are detected in an area to be impacted, then appropriate measures will be implemented by the biological monitor to avoid impacts (i.e., flag and avoid, erect orange snow fencing, biological monitor present during work, etc.). However, if avoidance is not possible and the sensitive biological resources will be directly impacted by project activities, the biological monitor will mark and/or stake the site(s) and map the individuals on an aerial map and with a GPS unit. The biologist will then contact the appropriate resource agencies to develop additional mitigation measures prior to commencing project activities. e) The construction crew will inspect excavated areas daily to detect the presence of trapped wildlife.			
	a) **BIO-2: Project Limits and Designated Areas** b) To avoid impacts to sensitive biological resources, the following measures will be implemented by the project proponent, contractors, and biological monitor prior to project staging, and commencement of any ground-disturbing activities or vegetation removal. c) Project boundary would be set at the minimum size to accomplish necessary work, resulting in minimal impacts to sensitive biological resources and jurisdictional areas.	Project Applicant Biological Monitor	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	d) Specifications for the project boundary, limits of construction, project-related parking, storage areas, laydown sites, and equipment storage areas will be mapped and clearly marked in the field with temporary fencing, signs, stakes, flags, rope, cord, or other appropriate markers. All markers will be maintained until the completion of activities in that area. e) To minimize the amount of disturbance, the construction/laydown areas, parking areas, staging areas, storage areas, spoil areas, and equipment access areas will be restricted to designated areas. To the extent possible, designated areas will comprise existing disturbed areas (parking lots, access roads, graded areas, etc.). f) Project-related work limits will be defined, and work crews will be restricted to designated work areas. Disturbance beyond the actual construction zone is prohibited without site-specific surveys. g) Project related vehicle traffic will be restricted to established roads, staging areas, and parking areas. Travel outside construction zones will be prohibited.			
	BIO-3: Western Joshua Tree Conservation Act Prior to the initiation of Joshua trees encroachment, trimming, pruning, or any activity that may result in take of Joshua trees (including removal of live and dead Joshua trees), the project proponent should obtain a California Endangered Species Act (CESA) Incidental Take Permits (ITP) under the western Joshua Tree Conservation Act (WJTCA) of Fish and Game Code (§§ 1927.3 and 1927.8). California Fish and Game Code § 86 defines "take" as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill". Mitigation will occur per the stem count per the WJTCA census in lieu fee, or as required by the ITP and WJTCA.	Project Applicant	Field Verification	1. CDFW 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	BIO-4: California Desert Native Plants Act Because species of the family Agavaceae (e.g., western Joshua Tree), which have been observed throughout the project site, are covered under § 80073(b) of the California Desert Native Plants Act (CDNPA), any impacts will require a permit issued by the commissioner of the sheriff in San Bernardino County pursuant to Chapter 3 § 80073. Prior to commencement of construction activities, including but not limited to mobilization, fencing, staging, vegetation trimming or removal, or ground-disturbing activities, the project proponent will acquire a permit pursuant to Chapter 3 § 80101 and § 80073 of the California Desert Native Plants Act if any of the following species are observed on the project site: a) All species of the family Agavaceae (century plants, nolinas, yuccas) b) All species of the family Cactaceae (cacti), except for the plants listed in subdivisions (b) and (c) of Section 80072 which may be harvested under a permit obtained pursuant to that section c) All species of the family Fouquieriaceae (ocotillo, candlewood) d) All species of the genus Prosopis (mesquites) e) All species of the genus Cercidium (palos verdes) f) Acacia greggii (catclaw) g) Atriplex hymenelytra (desert-holly) h) Dalea spinosa (smoke tree) i) Olneya tesota (desert ironwood), including both dead and live desert ironwood.	Project Applicant	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction
	BIO-5: Worker Environmental Awareness Program Worker Environmental Awareness Program (WEAP) for construction personnel shall be conducted and documented prior to onsite	Construction Supervisor	Field Verification	1. Town of Yucca Valley

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	disturbances. The training shall include a discussion of the sensitive biological resources within the project site and the potential presence of special-status species. The WEAP shall also include a discussion of special-status species' habitats, protection measures to ensure species are not impacted by project activities, project boundaries, penalties for non-compliance, and biological conditions outlined in the project permits. All new employees shall be trained before they access the work site. New employees shall be trained and certified by the Construction Supervisor with the approval of the Project Biologist as approved by CDFW. Each trained individual shall be given a distinctive helmet sticker that will identify those who have received training, signed the training log, and demonstrated the required level of environmental awareness.	Project Biologist		2. Town of Yucca Valley 3. Before Construction
	BIO-6: Construction Best Management Practices Project work crews will use CASQA (or similar) stormwater BMPs as directed by the project's Storm Water Pollution Prevention Plan (SWPPP). These measures will be identified prior to construction and incorporated into construction operations. The project's Qualified SWPPP Practitioner will ensure that construction activities will incorporate all applicable BMPs specified in the SWPPP to prevent erosion from water or wind, sedimentation of receiving waters, and introduction of other pollutants, including non-stormwater pollutants, into drainages crossed by or adjacent to the project site, accidental spills in the project site, including laydown yards and parking areas. BMPs will be maintained on a regular basis pursuant to the requirements of the SWPPP	Project Applicant Qualified SWPPP Practitioner	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction
	Bio-7: Pre-Construction Desert Tortoise Survey Prior to the commencement of project activities, including but not limited to ground disturbance, pre-construction surveys following guidance in the United States Fish and Wildlife's (USFWS) *Preparing for Any Action That May Occur Within the Range of the Mojave Desert*	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	Tortoise (*Gopherus agassizii;* "Guidelines") will be implemented. The Guidelines recommend the applicant contact USFWS prior to surveys. Qualified biologists will conduct pre-construction surveys for desert tortoise no more than 48 hours prior to initiation of Project activities and after any pause in Project activities lasting 30 days or more. The qualified biologists will follow USFWS's Desert Tortoise (Mojave Population) Field Manual (*Gopherus agassizii; "*Field Manual"). The qualified biologist will record all signs of desert tortoise, such as scat, burrows, carcasses, courtship rings, drinking depressions, and live sightings, as described in the Field Manual. The qualified biologist will provide a report with a map of the surveyed area (including transects, desert tortoises, and sign) and description of habitat conditions. Should positive survey results occur, the project applicant will secure an incidental take permit under Section 10 of FESA and State incidental take permit under Section 2081 of the Fish and Game Code.			3. Before Construction
	BIO-8: Pre-construction Wildlife Surveys Prior to issuance of grading permits, a qualified biologist will conduct pre-construction surveys within areas of suitable habitat for special-status terrestrial wildlife species identified as having moderate or greater potential to occur onsite. Pre-construction surveys will be conducted three days before the commencement of construction activities. If construction activities onsite lapse for one week or more, approved work areas will be re-surveyed by the biologist for new occurrences of the special-status wildlife species. Further consultation with wildlife agencies will be necessary if special-status species are observed onsite and prior to commencing construction activities.	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction
	a) **BIO-9: General Wildlife Avoidance and Protection Measures**	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	b) The project proponent would implement the following general avoidance and protection measures to protect wildlife. c) To minimize construction-related mortalities of nocturnally active wildlife species, it is recommended that all non-emergency work be conducted during daylight hours. All unnecessary lights shall be turned off at night to avoid attracting wildlife. Nighttime work (and use of artificial lighting) would not be permitted unless specifically authorized. d) If any wildlife is encountered during project activities, it will be allowed to freely leave the area unharmed or the biological monitor will capture the animal, if authorized, and relocate it outside of the construction work limits out of harm's way. e) Listed wildlife species will not be captured, handled, or relocated without specific written authorization from CDFW and/or USFWS. f) Wildlife would not be disturbed, captured, harassed, or handled, unless to relocate the animal out of imminent threat of injury or death. Animal nests, burrows and dens would not be disturbed without prior survey and authorization from the biological monitor. g) Active and inactive nests cannot be removed or disturbed. h) Contractors, subcontractors, employees, and site visitors would be prohibited from feeding or collecting wildlife. i) To avoid the potential for mortality and harassment of wildlife, all non-security related firearms, weapons, and domestic dogs would be prohibited from the project site.			3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	j) Contractors, subcontractors, employees, and site visitors shall inspect their vehicles and equipment for the presence of wildlife prior to moving their vehicles and equipment. The biological monitor shall be contacted if a special-status species is detected and is in danger of being harmed. k) All steep-walled pitfalls (trenches, holes, bores, and other excavations) greater than two feet deep used during the project would be completely covered at all times except when being actively used, to prevent wildlife entrapment (i.e. reptiles and small mammals). If trenches cannot be covered, escape ramps (maximum slope of 2:1) will be provided to allow trapped animals to escape. Exclusion fencing shall be installed around the trench or excavation. Trenches shall be inspected and wildlife removed immediately before backfilling. l) All onsite project workers shall look under their vehicles and equipment before movement. If wildlife is observed, no vehicles or equipment shall be moved until the animal has left the area voluntarily or can be legally relocated. m) Equipment maintenance, lighting, and staging will occur only in designated areas, and shall not block or impede wildlife movement.			
	BIO-10: Pre-Construction Burrowing Owl Surveys A qualified biologist shall conduct a pre-construction BUOW survey in accordance with the *Staff Report on Burrowing Owl Mitigation* (CDFW, 2012) or current CDFW guidance/protocol if changes to the aforementioned 2012 guidance have occurred. A pre-construction BUOW survey (Take Avoidance Survey) shall be conducted no more than 14 days prior to any site disturbance (grubbing, grading, and construction) and again 24 hours prior to ground disturbing activities.	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	Although BUOW was not detected on site during the reconnaissance-level surveys, the BSA contains suitable habitat to potentially support BUOW. The qualified biologist will identify, record, and map with a global positioning system (GPS) unit BUOWs and their sign. Detailed notes and wildlife species encountered during the surveys shall be recorded in field notes. If an occupied burrow is found (as indicated by the observation of a burrowing owl or the presence of burrowing owl sign), a 250-foot buffer around the burrow will be staked and flagged and no construction activities will be allowed within the buffer area during the breeding season (February 1 through August 31). The qualified biologist will contact CDFW to assist in the preparation of an Incidental Take Permit (ITP), and development of avoidance, minimization, and mitigation measures, prior to commencing project activities. A relocation program may be necessary and shall be approved by CDFW prior to commencing project activities. If no BUOWs or signs of BUOWs are observed during the preconstruction surveys and concurrence is received from CDFW, project activities may begin, and no further mitigation shall be required.			
	a) **BIO-11: Pre-Construction Breeding Bird Survey** b) If vegetation removal is scheduled within the nesting season, a qualified biologist will conduct a pre-construction nesting bird survey to maintain compliance with the Migratory Bird Treaty Act (MBTA) and the California Fish and Game Code (§§ 3503 and 3503.5), which prohibit take of nesting birds and nests of migratory and non-game bird species. Nesting season is generally considered to be: c) January 1-July 30 for raptors. d) February 1-September 15 for non-raptors.	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	e) A qualified biologist will conduct pre-construction surveys no more than five days prior to when project activities (e.g., mobilization, excavation, grading, vegetation removal) are underway. Should a lapse in project activity be greater than five days, a qualified biologist will conduct additional surveys to maintain compliance. To maximize the detection of nesting birds, surveys must be conducted in work areas (e.g., staging, stockpiling, storage, equipment yards, access roads) during favorable weather conditions. A wide variety of shelters and resources are used by avian species; these include barren ground, grasses, forbs, shrubs, trees, rocky outcrops, and man-made structures (dependent on species and conditions). The qualified biologists will interpret physical signs for nesting structures (e.g., manipulation of materials like mud or grass) and direct signs of life (e.g., courtship behaviors, gathering, swooping, alarm calls, pellets). f) If nests are encountered, a qualified biologist will consider individual species tolerance, proximity to construction activity, noise impacts, line-of-sight barriers, and distance (horizontal and vertical) to determine if planned construction activities would impact nesting success. The rate and duration of construction activities will also be considered should the modification of scheduled activities be required to maintain healthy nesting outcomes. g) If the qualified biologist determines construction activities will potentially adversely affect a nest, the biologist must immediately inform the construction manager to halt construction activities (i.e., establish a no-work zone) within a minimum exclusion buffer of 100 feet for songbird nests and 200-500 feet for raptor nests. This no-work zone			

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	lawfully avoids the "take" of nesting birds and the mortality of eggs and younglings. Construction activities within the no-work buffer may proceed after a qualified biologist determines the young have successfully fledged the nest and are no longer dependent upon the nest or parents. h) If federal or state protected species are observed during surveys, USFWS and CDFW will be consulted to determine the appropriate time for project activities to proceed and what specific measures will be taken to ensure protected species are not impacted.			
	BIO-12: Pre-Construction Desert Kit Fox and American Badger Surveys Desert kit fox is a protected species under CCR Title 14, § 460. No more than 14 days prior to the beginning of ground disturbance and/or Project activities, a qualified biologist shall conduct pre-construction surveys to determine if potential desert kit fox burrows/dens are present in the project area. Pre-construction surveys should include transect surveys at a 20-meter transect distance to ensure 100 percent visual coverage of the project area. Surveys may be combined for similar fossorial mammals, such as American badger; combined, concurrent surveys for dissimilar taxa (e.g. plants or birds) shall be prohibited. Use of wildlife camera monitoring to determine presence/absence and burrow/den use is strongly encouraged, in accordance with CDFW approved methods, including *Remote Camera Trap Installation and Servicing Protocol Citizen Wildlife Monitoring Project 2017 Field Season* (Moskowitz and Huyett, 2017) and *Camera-trapping for conservation: a guide to best-practices* (Oliver R. Wearn & Paul Glover-Kapfer, 2017). The pre-construction survey reports will include: (1) the number, location, and status determination of potential desert kit fox and/or badger dens identified during the reporting period, (2) occupancy	Project Applicant Qualified Biologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	monitoring status, (3) species present, and (4) estimated number of individuals and associated behaviors observed. Desert kit fox and badger images will additionally be stored on a cloud-based server and additional relevant data will be made available to CDFW upon request. If the pre-construction surveys confirm occupied desert kit fox habitat, project activities shall be immediately halted, and the qualified biologist shall notify CDFW to develop avoidance, minimization, and mitigation measures within a Desert Wildlife Management Plan. No disturbance of active dens shall take place when juvenile desert kit fox may be present and dependent on parental care. Sick or injured animals will be reported to CDFW within 24 hours of discovery.			
Threshold b): Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	Reference **MM BIO-1** thru **MM BIO 6** above.			

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
Threshold e): Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	**BIO-13: Protective Fencing of No Work Areas** Protective fencing shall be installed around the perimeter of ecologically sensitive areas, which will be designated as No Work Areas, including around the perimeter of western Joshua trees scheduled to be transplanted, and native vegetation communities adjacent to work areas, before commencement of staging, fencing, clearing, grading, or other construction activities. The installation of fencing and protection measures around trees and vegetation will comply with the Town's Native Desert Vegetation Ordinance. The tree protection zone for Joshua tree is a 40-foot radius around the trunk of the tree. Fencing shall be maintained in place during all construction. No construction, grading, staging, or material storage will be allowed within the fence exclusion areas, or within the protected zones of any onsite native trees.	Project Applicant	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction
	BIO-14: Yucca Valley Development Code Section 9.10.040 A native landscaping documentation package ("report") will be submitted to the division and at the time of filing land use applications (i.e., prior to any land disturbing or development activity) and may be combined with landscaping and water conservation requirements (Town of Yucca Valley, 2014). The report will include a) the botanical and common names of regulated native desert plants, b) the precise location of each regulated desert native plant, c) the trunk or stem diameter of each regulated desert native plant, d) the height of each desert regulated native plant, e) the health or condition, including those unlikely to survive transplanting, of all regulated desert native plants, and f) the proposed placement of the regulated desert plant (i.e., the transplant site, removal determination, or adopt offsite). Should a plant be determined as likely to survive transplanting by a qualified biologist, it shall be made available for adoption or transplanted onsite as part of the project's landscaping plan, which should maximize the use of native desert plants. The project applicant	Project Applicant	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	shall provide a thirty-day notice followed by a thirty-day adoption period; the adoption period may be less than thirty days should all plants be adopted. Adoption should be prioritized in the Town of Yucca Valley, with second priority to the Morongo Basin. It is recommended the thirty-day adoption signage period commences with the submittal of the desert native plant permit. Signage posting will follow the requirements found in 9.10.040E. All regulated desert native plants within the adoption program will a) receive written permission to be obtained by the property owner, b) have consideration of lant's original and transplanted physical orientation, prevailing wind direction, soil type of the original and transplanted locations, and other related attributes which may affect the successful transplantation, and c) have a maintenance plan considering watering schedules, stockpile location, support, and the method of trap fencing. Plants which are not adopted within the thirty-day period may be removed.			
4.5 Cultural Resources				
Threshold 4.5 b): Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5.	**MM CUL-1:** If archaeological resources are discovered during construction activities, the contractor will halt construction activities in the immediate area and notify the Town of Yucca Valley (California Code of Regulations, Title 14, Chapter 3, Section 15064.5(f)). The project applicant shall retain an archaeologist who meets the Secretary of the Interior's Professional Qualifications Standards for Archaeology who will be notified and afforded the necessary time to recover, analyze, and curate the find(s). The qualified archaeologist will recommend the extent of archaeological monitoring necessary to ensure the protection	Project Construction Contractor Qualified Archaeologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. During Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	of any other resources that may be in the area. Any identified cultural resources shall be recorded on the appropriate DPR 523 (A-L) form and filed with the South Central Coastal Information Center. Construction activities may continue on other parts of the project site while evaluation and treatment of prehistoric archaeological resources takes place.			
Threshold 4.5 c): Disturb any human remains, including those interred outside of formal cemeteries.	**MM CUL-2:** If human remains are encountered during excavations associated with this project, all work will stop within a 30-foot radius of the discovery, and the San Bernardino County Coroner will be notified (§ 5097.98 of the Public Resources Code). The Coroner will determine whether the remains are recent human origin or older Native American ancestry. If the coroner, with the aid of the supervising archaeologist, determines that the remains are prehistoric, they will contact the NAHC. The NAHC will be responsible for designating the Most Likely Descendant (MLD). The MLD (either an individual or sometimes a committee) will be responsible for the ultimate disposition of the remains, as required by § 7050.5 of the California Health and Safety Code. The MLD will make recommendations within 24 hours of their notification by the NAHC. These recommendations may include scientific removal and nondestructive analysis of human remains and items associated with Native American burials (§ 7050.5 of the Health and Safety Code).	Project Construction Contractor San Bernardino County Coroner	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Before Construction
4.7 Geology and Soils				
Threshold 4.7 e): Would the project directly or indirectly destroy a unique paleontological	**MM GEO-1:** Prior to the issuance of the grading permit, the applicant shall provide a letter to the Town of Yucca Valley Planning Division, or designee, from a qualified paleontologist stating that the paleontologist has been retained to provide services for the project. The paleontologist shall develop, as needed, a Paleontological Resources Impact Mitigation Plan (PRIMP) to	Project Applicant Qualified Paleontologist Construction Contractor	Monitoring, Assessment, Recovery, and Curation	1. Town of Yucca Valley 2. Town of Yucca Valley 3. During Construction

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
resource or site or unique geologic feature?	mitigate the potential impacts to unknown buried paleontological resources that may exist onsite for the review and approval by the City. The PRIMP shall require that the paleontologist perform periodic paleontological monitoring of any ground disturbing activities within undisturbed native sediments during mass grading, site preparation, and underground utility installation. The project paleontologist may reevaluate the necessity for paleontological monitoring after 50 percent or greater of the excavations have been completed. In the event paleontological resources are encountered, ground-disturbing activity within 50 feet of the area of the discovery shall cease. The paleontologist shall examine the materials encountered, assess the nature and extent of the find, and recommend a course of action to further investigate and protect or recover and salvage those resources that have been encountered. Criteria for discarding specific fossil specimens shall be made explicit. If the qualified paleontologist determines that impacts to a sample containing significant paleontological resources cannot be avoided by project planning, then recovery may be applied. Actions may include recovering a sample of the fossiliferous material prior to construction, monitoring work and halting construction if a significant fossil needs to be recovered, and/or cleaning, identifying, and cataloging specimens for curation and research purposes. Recovery, salvage and treatment shall be done at the Applicant's expense. All recovered and salvaged resources shall be prepared to the point of identification and permanent preservation by the paleontologist. Resources shall be identified and curated into an established accredited professional repository such as the San Bernardino County Museum. The paleontologist shall have a repository agreement in hand prior to initiating recovery of the resource.			

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
4.18 Tribal Cultural Resources				
Threshold 4.18 b): Cause a substantial adverse change in the significance of a tribal cultural resource that is determined to be a significant resource to a California Native American tribe pursuant to the criteria set forth in subdivision (c) of Public Resource Code § 5024.1(c)?	**MM TCR-1:** Treatment of Cultural Resources During Project Implementation. If a pre-contact cultural resource is discovered during project implementation, ground-disturbing activities shall be suspended 60 feet around the resource(s), and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed. The Project Archaeologist shall develop a research design that shall include a plan to evaluate the resource for significance under CEQA criteria. Representatives from Yuhaaviatam of San Manuel Nation (YSMN) and Morongo Band of Mission Indians (Morongo), the Archaeologist, and the Lead Agency shall confer regarding the research design, as well as any testing efforts needed to delineate the resource boundary. Following the completion of evaluation efforts, all parties shall confer regarding the resource's archaeological significance, its potential as a Tribal Cultural Resource (TCR), and avoidance (or other appropriate treatment) of the discovered resource. Removal of any cultural resource(s) shall be conducted with the presence of a Tribal monitor representing the Tribes, unless otherwise decided by YSMN and Morongo. All plans for analysis shall be reviewed and approved by the applicant and YSMN and Morongo prior to implementation, and all removed material shall be temporarily curated on-site. It is the preference of YSMN that removed cultural material be reburied as close to the original find location as possible. However, should reburial within/near the original find location during project implementation not be feasible, then a reburial location for future reburial shall be decided upon by YSMN and Morongo, the landowner, and the Lead Agency, and all finds shall be reburied within this location. Additionally, in this case, reburial shall not occur until all ground-disturbing activities associated with the project have been completed,	Project Applicant	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. Prior to commencement of any "ground-disturbing activity"

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	all monitoring has ceased, all cataloguing and basic recordation of cultural resources have been completed, and a final monitoring report has been issued to Lead Agency, CHRIS, YSMN and Morongo. All reburials are subject to a reburial agreement that shall be developed between the landowner, YSMN and Morongo outlining the determined reburial process/location, and shall include measures and provisions to protect the reburial area from any future impacts. Should it occur that avoidance, preservation in place, and on-site reburial are not an option for treatment, the landowner shall relinquish all ownership and rights to this material and confer with YSMN and Morongo to identify an American Association of Museums (AAM)-accredited facility within the County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriate qualified repository shall be developed between the landowner and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the obligation of the Project developer/applicant to pay for those fees. All draft records/reports containing the significance and treatment findings and data recovery results shall be prepared by the archaeologist and submitted to the Lead Agency and YSMN and Morongo for their review and comment. After approval from all parties, the final reports and site/isolate records are to be submitted to the local CHRIS Information Center, the Lead Agency, YSMN and Morongo.			
	MM TCR-2: Inadvertent Discoveries of Human Remains. If human remains or funerary objects are encountered during any activities associated with the project, work in the immediate vicinity (within a 100-foot buffer of	Project Applicant Qualified Archeologist	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley

TOPICAL AREA IMPACT	MITIGATION MEASURE	RESPONSIBLE PARTY	MONITORING ACTION	1. ENFORCEMENT AGENCY 2. MONITORING AGENCY 3. MONITORING PHASE
	the find) shall cease and the County Coroner shall be contacted pursuant to State Health and Safety Code §7050.5 and that code enforced for the duration of the project			3. During Construction
	MM TCR-3: **Tribal Cultural Resources Monitoring.** In consultation with interested tribes, the developer, and the Town of Yucca Valley, a Tribal Monitoring Plan (TMP) will be prepared to address the details, timing, and responsibility Tribal Monitoring activities that will occur on the project site. Details in the TMP shall include: 1. Monitoring of project-related ground disturbance (including, but not limited to, brush clearing, grading, trenching, etc.) coordinated with these construction-related activities. 2. The development of a concurrent monitoring schedule in coordination with the developer and the designated Native American Tribal Monitors from the consulting tribes during grading, excavation and ground disturbing activities on the site: including the scheduling, safety requirements, duties, scope of work, and Native American Tribal Monitors' authority to stop and redirect grading activities in coordination with the project archaeologist. 3. The protocols and stipulations that the developer, City, Tribes, and project archaeologist will follow in the event of inadvertent TCR discoveries, including any newly discovered cultural resource deposits that shall be subject to a cultural resources evaluation.	Project Applicant San Bernardino County Coronerhuman remains, to a	Field Verification	1. Town of Yucca Valley 2. Town of Yucca Valley 3. During Construction

ATTACHMENTS

ATTACHMENT A: NOTICE OF INTENT

Town of Yucca Valley

Notice of Intent to Adopt a Mitigated Negative Declaration

To: Agencies, Organizations, and Interested Parties

From: Town of Yucca Valley

Subject: Notice of Intent to Adopt an Initial Study/Mitigated Negative Declaration (IS/MND) for the Sun Mesa Self-Storage Facility

Town of Yucca Valley is the Lead Agency under the California Environmental Quality Act (CEQA) for the proposed projects identified below and has prepared this notice in accordance with the California Code of Regulations, Title 14, Sections 15072 and 15105.

Project Title: Sun Mesa Self-Storage Facility

Project Location: S/E Corner of Sun Mesa Road and Newton Road (APN 0597-111-67)

Project Description: The Town of Yucca Valley (Town) is processing a request to implement discretionary actions that would allow for the development of a self-storage facility (project) southeast of the intersection of Newton Lane and Sun Mesa Drive in the Town of Yucca Valley in San Bernardino County (APN: 0597-11-067). The proposed project includes the development of approximately 541 storage units, a manager's office, parking, internal roads, and landscaping on an approximately 4.34-acre site. In addition, offsite improvements (including partial pavement of adjacent roads) would be provided.

The project would consist of: (1) utilities improvements; (2) construction of self-storage units and a manager's office; (4) parking; (5) landscaping; and (6) improvement of half of Newton Lane along the project's west boundary and Sun Mesa Drive along the north boundary.

The project site has a General Plan land use designation of Industrial (I) and is zoned Industrial by the Town of Yucca Valley. The proposed self-storage facility is permitted use within the Industrial zoning district and does not require a General Plan Amendment or Zone Change. With approval of a Site Plan Review, the project would conform to the existing land use and zoning designations.

Public Hearing/Meeting: A public hearing for the adoption of the MND has been tentatively scheduled for Tuesday, March 10, 2026, at 6:00 PM, during the Town's regular Planning Commission meeting at the location shown below:

Yucca Valley Community Center – Yucca Room
57090 Twentynine Palms Highway, Yucca Valley, CA 92284

Public Review Period/Responses and Comments: The IS/MND will be available for public review and comment pursuant to California Code of Regulations, Title 14, Section 15073. Town will accept comments for 30 days, starting on **January 16, 2026 to February 15, 2026, by 5:00 PM**. All comments must be submitted in writing, either in a letter or email. Please indicate a contact person for your agency or organization and send your responses or comments to:

Jared Jerome, Associate Planner
Town of Yucca Valley
58928 Business Center Drive, Yucca Valley, CA 92284
T: (760) 369-6579 x317
E: jjerome@yucca-valley.org

DOCUMENT AVAILABILITY: This IS/MND and associated materials are available for review on Town's website https://www.yucca-valley.org/our-town/town-manager/town-clerk/request-for-public-record and during regular business hours at the following location:

Town of Yucca Valley
57090 Twentynine Palms Highway
Yucca Valley, CA 92284

ATTACHMENT B: NOI POSTING AT THE STATE OF CALIFORNIA, OFFICE OF PLANNING AND RESEARCH CLEARINGHOUSE

Sun Mesa Self-Storage Facility

Summary

SCH Number
2026010779

Lead Agency
City of Yucca Valley

Document Title
Sun Mesa Self-Storage Facility

Document Type
MND - Mitigated Negative Declaration

Received
1/23/2026

Present Land Use
Industrial (I)

Document Description
The proposed project entails the construction and operation of a self-storage facility, consisting of 16 detached storage structures, totaling approximately 89,700 square feet, plus a 400 square foot manager's office. Public infrastructure improvements as part of project implementation would include a sixty-foot (60') wide local road, requiring paving twenty-six (26') half width along Newton Lane with curb, gutter, and sidewalk, from the proposed project site south to Buena Vista Drive.

Contact Information

Name
Jared Jerome

Agency Name
Town of Yucca Valley

Job Title
Associate Planner

Contact Types
Lead/Public Agency

Address
58928 Business Center Drive
Town of Yucca Valley, CA 92284

Phone
(760) 369-6579 ext. 317

Email
jjerome@yucca-valley.org

Name
Robert Billings

Agency Name
Property Owner

Contact Types
Project Applicant

Address
5024 Wallaby Street
Yucca Valley, CA 92284

Phone
(760) 686-4171

Email
billingstransfer@yahoo.com

Name
Betsy A. Lindsay

Agency Name
UltraSystems Environmental

Job Title
Principal Project Manager

Contact Types
Consulting Firm

Address
16431 Scientific Way
Irvine, CA 92618

Phone
(949) 788-4900 ext. 227

Email
blindsay@ultrasystems.com

Location

Coordinates
34°10'4"N 116°25'16"W

Cities
Town of Yucca Valley

Counties
San Bernardino

Regions
Citywide

Cross Streets
S/E Corner of Sun Mesa Road and Newton Road

Zip
92284

Total Acres
4.34

Jobs
1

Parcel #
APN 0597-111-67

State Highways
62 & 47

Notice of Completion

State Review Period Start
1/23/2026

State Review Period End
2/23/2026

State Reviewing Agencies
California Air Resources Board (ARB), California Department of Conservation (DOC), California Department of Fish and Wildlife, Inland Deserts Region 6 (CDFW), California Department of Forestry and Fire Protection (CAL FIRE), California Department of Parks and Recreation, California Department of Toxic Substances Control (DTSC), California Department of Transportation, District 8 (DOT), California Department of Water Resources (DWR), California Fish and Game Commission (CDFGC), California Governor's Office of Emergency Services (OES), California Highway Patrol (CHP), California Native American Heritage Commission (NAHC), California Natural Resources Agency, California Regional Water Quality Control Board, Colorado River Basin Region 7 (RWQCB), Colorado River Board, Office of Historic Preservation, State Water Resources Control Board, Division of Drinking Water, State Water Resources Control Board, Division of Drinking Water, District 13, State Water Resources Control Board, Division of Drinking Water, District 27, State Water Resources Control Board, Division of Water Rights, State Water Resources Control Board, Divison of Financial Assistance

Development Types
Office (Sq. Ft. 400, Acres 4.34, Employees 1), Industrial (Sq. Ft. 89700, Acres 400, Employees 1)

Local Actions
Site Plan, Design Review

Project Issues

Project Applicant

Address

14587 Valley Boulevard
Fontana, CA 92335

Phone

(909) 350-1644 ext. 346

Email

bobby@cargosolutionsexpress.com

Location

Coordinates

34°24'53.59"N 117°23'33.79"W

Cities

Hesperia

Counties

San Bernardino

Regions

Citywide

Cross Streets

Southeast intersection of Three Flags Avenue and Poplar Street

Zip

92345

Total Acres

20.32

Jobs

1

Parcel #

3064-591-17,-18,-12, and -13 and 3064-631-01

State Highways

U.S. 395 and I-15

Township

4N

Range

5W

Section

22

Base

San Bern

Aesthetics, Agriculture and Forestry Resources, Air Quality, Biological Resources, Cultural Resources, Flood Plain/Flooding, Geology/Soils, Hazards & Hazardous Materials, Hydrology/Water Quality, Land Use/Planning, Mineral Resources, Noise, Population/Housing, Public Services, Recreation, Schools/Universities, Septic System, Sewer Capacity, Transportation, Tribal Cultural Resources, Vegetation, Wetland/Riparian, Wildfire

Public Review Period Start
1/16/2026

Public Review Period End
2/15/2026

Attachments

Draft Environmental Document [Draft IS, NOI_NOA_Public notices, OPR Summary Form, Appx,]

01_AppFlysheet PDF 109 K
02_AppA_Project Plans PDF 10777 K
03_AppB_AQ_Energy_GHG Memo PDF 3139 K
03_AppC1_Bio Report PDF 35014 K
04_AppC2_Joshua Tree Census PDF 29479 K
05_AppC3_Plant Survey Report PDF 1723 K
06_AppD_Cultural PDF 2290 K
07_AppE_Geo PDF 6097 K
08_AppF_Phase I ESA PDF 62796 K
09_AppG1_Perc Testing PDF 3899 K
10_App G2 _Prelim Drainage Study PDF 25900 K
11_AppH_Noise & Vibration Analysis PDF 6783 K
12_AppI_Trip Generation and VMT PDF 2305 K
7335 Yucca Valley ISMND - CLEAN_2025_12_29 PDF 15033 K
NOI-SunMesaSelf-StorageFacility PDF 598 K
Summary Form PDF 438 K

Notice of Completion [NOC] Transmittal form

01 NOC_Final Version PDF 166 K

Disclaimer: The Governor's Office of Land Use and Climate Innovation (LCI) accepts no responsibility for the content or accessibility of these documents. To obtain an attachment in a different format, please contact the lead agency at the contact information listed above. For more information, please visit LCI's Accessibility Site.

ATTACHMENT C: SAN BERNARDINO COUNTY CLERK-RECORDER NOI POSTING

CLERK OF THE BOARD
Received on: 1-16-26
Remove on: 02-23-26

CLERK OF THE BOARD OF SUPERVISORS
SAN BERNARDINO COUNTY CALIFORNIA
2026 JAN 16 PM 02

Town of Yucca Valley

Notice of Intent to Adopt a Mitigated Negative Declaration

To: Agencies, Organizations, and Interested Parties

From: Town of Yucca Valley

Subject: Notice of Intent to Adopt an Initial Study/Mitigated Negative Declaration (IS/MND) for the Sun Mesa Self-Storage Facility

Town of Yucca Valley is the Lead Agency under the California Environmental Quality Act (CEQA) for the proposed projects identified below and has prepared this notice in accordance with the California Code of Regulations, Title 14, Sections 15072 and 15105.

Project Title: Sun Mesa Self-Storage Facility

Project Location: S/E Corner of Sun Mesa Road and Newton Road (APN 0597-111-67)

Project Description: The Town of Yucca Valley (Town) is processing a request to implement discretionary actions that would allow for the development of a self-storage facility (project) southeast of the intersection of Newton Lane and Sun Mesa Drive in the Town of Yucca Valley in San Bernardino County (APN: 0597-11-067). The proposed project includes the development of approximately 541 storage units, a manager's office, parking, internal roads, and landscaping on an approximately 4.34-acre site. In addition, offsite improvements (including partial pavement of adjacent roads) would be provided.

The project would consist of: (1) utilities improvements; (2) construction of self-storage units and a manager's office; (4) parking; (5) landscaping; and (6) improvement of half of Newton Lane along the project's west boundary and Sun Mesa Drive along the north boundary.

The project site has a General Plan land use designation of Industrial (I) and is zoned Industrial by the Town of Yucca Valley. The proposed self-storage facility is permitted use within the Industrial zoning district and does not require a General Plan Amendment or Zone Change. With approval of a Site Plan Review, the project would conform to the existing land use and zoning designations.

Public Hearing/Meeting: A public hearing for the adoption of the MND has been tentatively scheduled for Tuesday, March 10, 2026, at 6:00 PM, during the Town's regular Planning Commission meeting at the location shown below:

Yucca Valley Community Center – Yucca Room
57090 Twentynine Palms Highway, Yucca Valley, CA 92284

Public Review Period/Responses and Comments: The IS/MND will be available for public review and comment pursuant to California Code of Regulations, Title 14, Section 15073. Town will accept comments for 30 days, starting on **January 16, 2026 to February 15, 2026, by 5:00 PM**. All comments must be submitted in writing, either in a letter or email. Please indicate a contact person for your agency or organization and send your responses or comments to:

Jared Jerome, Associate Planner
Town of Yucca Valley
58928 Business Center Drive, Yucca Valley, CA 92284
T: (760) 369-6579 x317
E: jjerome@yucca-valley.org

DOCUMENT AVAILABILITY: This IS/MND and associated materials are available for review on Town's website https://www.yucca-valley.org/our-town/town-manager/town-clerk/request-for-public-record and during regular business hours at the following location:

Town of Yucca Valley
57090 Twentynine Palms Highway
Yucca Valley, CA 92284

ATTACHMENT D: AB 52 TRIBAL CONSULTATION LETTERS

April 04, 2024

Darrell Mike, Chairperson
Twenty-Nine Palms Band of Mission Indians
46-200 Harrison Place
Coachella, CA 92236

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Mr. Mike,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

Jared Jerome, Associate Planner
58928 Business Center Drive,
Yucca Valley, CA 92284
(760)369-6579 ext. 317
jjerome@yucca-valley.org

The Town of Yucca Valley
COMMUNITY DEVELOPMENT/PUBLIC WORKS DEPARTMENT
58928 Business Center Dr.
Yucca Valley, California 92284

Planning
(760) 369-6575
Public Works
(760) 369-6579
Building and Safety
(760) 365-0099
Code Compliance
(760) 369-6575
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(760) 369-6575
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(760) 365-1807
Animal Shelter
(760) 365-3111
FAX (760) 228-0084

Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Fort Mojave Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

Goldie Walker, Chairwoman
Serrano Nation of Indians
P.O. Box 343
Patton, CA 92369

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Ms. Walker,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

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(760)369-6579 ext. 317
jjerome@yucca-valley.org

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Fort Mojave Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

Alexandra McCleary, Ph.D.
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, CA 92346

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Ms. McCleary,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

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58928 Business Center Drive,
Yucca Valley, CA 92284
(760)369-6579 ext. 317
jjerome@yucca-valley.org

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58928 Business Center Dr.
Yucca Valley, California 92284

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Fort Mojave Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

James Ramos, Chairperson
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, CA 92346

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Mr. Ramos,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

Jared Jerome, Associate Planner
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Yucca Valley, CA 92284
(760)369-6579 ext. 317
jjerome@yucca-valley.org

The Town of Yucca Valley
COMMUNITY DEVELOPMENT/PUBLIC WORKS DEPARTMENT
58928 Business Center Dr.
Yucca Valley, California 92284

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Fort Mojave Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

Joseph Hamilton, Chairman
Ramona Band of Cahuilla Mission Indians
P.O. Box 391670
Anza, CA 92539

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Mr. Hamilton,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

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58928 Business Center Drive,
Yucca Valley, CA 92284
(760)369-6579 ext. 317
jjerome@yucca-valley.org

The Town of Yucca Valley
COMMUNITY DEVELOPMENT/PUBLIC WORKS DEPARTMENT
58928 Business Center Dr.
Yucca Valley, California 92284

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FAX (760) 228-0084

Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Fort Mojave Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

Ernest H. Siva
Morongo Band of Mission Indians Tribal Elder
9570 Mias Canyon Road
Banning, CA 92220

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Mr. Siva,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

Jared Jerome, Associate Planner
58928 Business Center Drive,
Yucca Valley, CA 92284
(760)369-6579 ext. 317
jjerome@yucca-valley.org

The Town of Yucca Valley
COMMUNITY DEVELOPMENT/PUBLIC WORKS DEPARTMENT
58928 Business Center Dr.
Yucca Valley, California 92284

Planning
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(760) 365-3111
FAX (760) 228-0084

Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Fort Mojave Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

Michael Contreras, Cultural Heritage Program
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, CA 92220

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Mr. Contreras,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Fort Mojave Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

Timothy Williams, Chairperson
Fort Mojave Indian Tribe
500 Merriman Av
Needles, CA 92363

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Mr. Williams,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Coachella Indians. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

Heather House and Andrea Edge
Coachella Indians
P.O. Box 1829
Indio, CA 92201

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Ms. House, and Ms. Edge,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Chemehuevi Reservation. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

Charles Wood, Chairperson
Chemehuevi Reservation
P.O. Box 1967
Chemehuevi Valley, CA 92363

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Mr. Wood,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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jjerome@yucca-valley.org

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the AhaMaKav – Cultural Society, Fort Mojave Indian. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

AhaMaKav Cultural Society, Fort Mojave Indian
Linda Otero, Director/ Charlotte Knox, Assistant Director
P.O. Box 5990
Mohave Valley, AZ 86440

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Ms. Otero, and Ms. Knox,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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jjerome@yucca-valley.org

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Colorado River Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

April 04, 2024

Ginger Scott, Acting Director & George Ray, Coordinator
Colorado River Indian Tribe
133 West Riverside Drive
Parker, AZ 85344

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: SUN MESA STORAGE FACILITY – CONDITIONAL USE PERMIT (CUP) 04-23 & ENVIRONMENTAL ASSESSMENT (EA) 18-23

PROJECT ADDRESS: SOUTHEAST CORNER OF SUN MESA DRIVE AND NEWTON LANE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0597-111-67-0000

Dear Ms. Scott, and Mr. Ray,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Sun Mesa Storage Facility" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

Jared Jerome, Associate Planner
58928 Business Center Drive,
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jjerome@yucca-valley.org

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Outlook

FW: sun mesa & newton storage facility

From Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Date Mon 23-Feb-26 8:55
To Janet Yochmowitz <JYochmowitz@yucca-valley.org>

Public comment for Sun Mesa PC

-----Original Message-----
From: claire armstrong <armstrong.clar@gmail.com>
Sent: Friday, February 13, 2026 11:39 PM
To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Subject: sun mesa & newton storage facility

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

hello
i'm writing to address the proposed construction of a storage facility on sun mesa & newton on the yucca mesa. please do not allow this plan to move forward! this is a beautiful peace of untouched land, which is sadly becoming rarer. i live within a few blocks of this intersection; my dog & i take daily walks here. we do not need another storage facility in the desert, let alone in this specific & gorgeous area.
thank you
claire armstrong

Sent from my iPhone

Outlook

FW: Public comment re: IS/MND for the Sun Mesa Self-Storage Facility

From Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Date Wed 18-Mar-26 10:45
To Janet Yochmowitz <JYochmowitz@yucca-valley.org>

-----Original Message-----
From: Branden Fugate <brandenfugate@gmail.com>
Sent: Tuesday, February 10, 2026 1:00 PM
To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Subject: Re: Public comment re: IS/MND for the Sun Mesa Self-Storage Facility

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Mr. Jerome,

Thank you for your quick response and the documentation. I have read it carefully and remain opposed to the proposed project, particularly on the proposed lot, now even more so than before. I am not opposed to growth or industry, but this is sprawl. Yucca Valley is replete with already developed and underutilized/vacant land, particular along I-62, that would be tailor made for such a project (leaving the actual need for said project aside).

Furthermore, I was not able to find an updated timeline for the proposed project. The nearest I saw predicted project completion in 2024. If you could provide me with updated projections, or direct me to the appropriate area of the documentation, I would be grateful.

Thank you,
Branden Fugate
4866 Terry Ln
Yucca Valley, CA 92284

> On Feb 3, 2026, at 10:59 AM, Jared Jerome <jjerome@YUCCA-VALLEY.ORG> wrote:
>
> Good morning,
>
> The project information, including the CEQA analysis, is located here: https://www.yucca-valley.org/our-town/departments/community-development/planning/land-development/sun-mesa-storage-facility#!/
>
> Your comments will be provided to the Planning Commission secretary. Please feel free to make additional comments after reviewing the documents.

>
> Jared Jerome
> Senior Planner
>
> Town of Yucca Valley
> Community Development Department
> 58928 Business Center Drive
> Yucca Valley, CA 92284
> P: (760) 369-6579 ext. 317
> F: (760) 228-0084
> jjerome@yucca-valley.org
>
>
>
> -----Original Message-----
> From: Branden Fugate <brandenfugate@gmail.com>
> Sent: Monday, February 2, 2026 6:21 PM
> To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
> Subject: Public comment re: IS/MND for the Sun Mesa Self-Storage Facility
>
> CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.
>
> Hello,
>
> I recently received a Notice of Intent to Adopt a Mitigated Negative Declaration for the Sun-Mesa Self-Storage Facility. As someone who lives very near the proposed site, I would very much like some more information. The only thing I was able to turn up from a document search through the town website was what appears to be the initial lengthy proposal by UltraSystems on June 3, 2025. In this proposal, multiple promises are made for deliverables concerning the project's impact on the environment and surrounding communities, but those were not included in my notice, nor were instructions on how to retrieve them. It’s difficult to provide an educated comment during the current comment period, or the tentatively scheduled public hearing, without any materials whatsoever concerning project plans, timeline, or impact. If you could direct me to such documents, I would be appreciative. Otherwise, I must express my opposition to the proposal of a seemingly redundant business (local storage facilities are not operating anywhere close to capacity) that would destroy multiple Western Joshua Trees, disturb animal habitat, and create prolonged and needless construction noise in an otherwise peaceful area of Yucca Valley.
>
> Thank you for your time.
>
>
> Respectfully,
>
> Branden Fugate
> 4866 Terry Ln
> Yucca Valley, CA 92284

Outlook

FW: IS/MND for Sun Mesa Self-Storage Facility

From Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Date Wed 18-Mar-26 10:44
To Janet Yochmowitz <JYochmowitz@yucca-valley.org>

From: Madison Jaimes <madisonjaimes92@gmail.com>
Sent: Thursday, February 12, 2026 12:52 PM
To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Subject: Re: IS/MND for Sun Mesa Self-Storage Facility

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hello Mr. Jerome,

Thank you for your quick response and the documentation. I have read it carefully and remain opposed to the proposed project, particularly on the proposed lot, now even more so than before. I am not opposed to growth or industry, but this is sprawl. Yucca Valley is replete with already developed and underutilized/vacant land, particularly along I-62, that would be tailor made for such a project (leaving the actual need for said project aside). I appreciate your time and assistance with getting us all of the documents for review.

Thank you,
Madison Jaimes
4866 Terry Ln
Yucca Valley, CA 92284

On Tue, Feb 3, 2026 at 10:47 AM Jared Jerome <jjerome@yucca-valley.org> wrote:

> Hi Madison,
>
> The project information, including the project description, plans, and environmental document(s), is located here: https://www.yucca-valley.org/our-town/departments/community-development/planning/land-development/sun-mesa-storage-facility#!/
>
> Staff does not make the decision on approval or denial, however, I will provide your email to the Planning Commission for their consideration.
>
> Please feel free to provide additional comments after you have a chance to review the documents above.
>
> *Jared Jerome*
> Senior Planner

Town of Yucca Valley
Community Development Department
58928 Business Center Drive
Yucca Valley, CA 92284
P: (760) 369-6579 ext. 317
F: (760) 228-0084
jjerome@yucca-valley.org

From: Madison Jaimes <madisonjaimes92@gmail.com>
Sent: Monday, February 2, 2026 8:19 PM
To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Subject: IS/MND for Sun Mesa Self-Storage Facility

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

To whom it may concern,
Recently I received a Notice of Intent to Adopt a Mitigated Negative Declaration for the Sun-Mesa Self-Storage Facility. I am a very nearby resident and I am inquiring for more information regarding the proposed facility. After doing my own research, I cannot find much on the proposed project besides a very long document with minor details. In the proposal, multiple promises are made for deliverables concerning the project's impact on the environment and surrounding communities, but those were not included in the notice I received, nor were instructions on how to retrieve them. I would like to provide a more educated comment before the comment period is over or the tentatively scheduled public hearing, but without any materials whatsoever concerning project plans, timeline, or impact I am asking for more. As a nearby resident I strongly oppose the proposal of a business that is not needed in this community as we already have plenty of local storage facilities in town that are under capacity. Not only would it be a disturbance to our peaceful lives, but it would destroy multiple Western Joshua Trees, disturbing animal and wildlife habitats, and create prolonged and needless construction noise in an otherwise peaceful area of Yucca Valley. I urge you to reconsider the facility. Thank you for your time.
Sincerely,
Madison Jaimes
4866 Terry Lane
Yucca Valley, CA 92284

Town of Yucca Valley

Notice of Intent to Adopt a Mitigated Negative Declaration

To: Agencies, Organizations, and Interested Parties

From: Town of Yucca Valley

Subject: Notice of Intent to Adopt an Initial Study/Mitigated Negative Declaration (IS/MND) for the Sun Mesa Self-Storage Facility

Town of Yucca Valley is the Lead Agency under the California Environmental Quality Act (CEQA) for the proposed projects identified below and has prepared this notice in accordance with the California Code of Regulations, Title 14, Sections 15072 and 15105.

Project Title: Sun Mesa Self-Storage Facility

Project Location: S/E Corner of Sun Mesa Road and Newton Road (APN 0597-111-67)

Project Description: The Town of Yucca Valley (Town) is processing a request to implement discretionary actions that would allow for the development of a self-storage facility (project) southeast of the intersection of Newton Lane and Sun Mesa Drive in the Town of Yucca Valley in San Bernardino County (APN: 0597-11-067). The proposed project includes the development of approximately 541 storage units, a manager's office, parking, internal roads, and landscaping on an approximately 4.34-acre site. In addition, offsite improvements (including partial pavement of adjacent roads) would be provided.

The project would consist of: (1) utilities improvements; (2) construction of self-storage units and a manager's office; (4) parking; (5) landscaping; and (6) improvement of half of Newton Lane along the project's west boundary and Sun Mesa Drive along the north boundary.

The project site has a General Plan land use designation of Industrial (I) and is zoned Industrial by the Town of Yucca Valley. The proposed self-storage facility is permitted use within the Industrial zoning district and does not require a General Plan Amendment or Zone Change. With approval of a Site Plan Review, the project would conform to the existing land use and zoning designations.

Public Hearing/Meeting: A public hearing for the adoption of the MND has been tentatively scheduled for Tuesday, March 10, 2026, at 6:00 PM, during the Town's regular Planning Commission meeting at the location shown below:

Yucca Valley Community Center – Yucca Room
57090 Twentynine Palms Highway, Yucca Valley, CA 92284

Public Review Period/Responses and Comments: The IS/MND will be available for public review and comment pursuant to California Code of Regulations, Title 14, Section 15073. Town will accept comments for 30 days, starting on **January 16, 2026 to February 15, 2026, by 5:00 PM**. All comments must be submitted in writing, either in a letter or email. Please indicate a contact person for your agency or organization and send your responses or comments to:

Jared Jerome, Associate Planner
Town of Yucca Valley
58928 Business Center Drive, Yucca Valley, CA 92284
T: (760) 369-6579 x317
E: jjerome@yucca-valley.org

DOCUMENT AVAILABILITY: This IS/MND and associated materials are available for review on Town's website https://www.yucca-valley.org/our-town/town-manager/town-clerk/request-for-public-record and during regular business hours at the following location:

Town of Yucca Valley
57090 Twentynine Palms Highway
Yucca Valley, CA 92284

RESOLUTION NO. PC 26-02

RESOLUTION OF THE PLANNING COMMISSION OF THE TOWN OF YUCCA VALLEY APPROVING EA 18-23 AND SPR 07-23 (PROJECT), FOR WHICH AN INITIAL STUDY/MITIGATED NEGATIVE DECLARATION WAS PREPARED IN ACCORDANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT, AND ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM

WHEREAS, prior to the adoption of this Resolution, the Town of Yucca Valley prepared an Initial Study and adopted a Mitigated Negative Declaration for the EA 18-23 and Site Plan Review SPR 07-23 (Project) in accordance with the requirements of the California Environmental Quality Act of 1970, as amended ("CEQA"), and state guidelines implementing CEQA; and

WHEREAS, the Project analyzed under the Initial Study/Mitigated Negative Declaration consisted of the construction and development of an approximate 89,700 square foot multi-structure self-storage facility that is 9'6" in height, located on approximately 4.34-acre property, with parking, landscaping, and drainage improvements. The project is located at 4815 Newton Lane and is also identified as APN: 0597-111-67; and

WHEREAS, the Initial Study/Mitigated Negative Declaration concluded that implementation of the Project could result in a number of significant effects on the environment and identified mitigation measures that would reduce the significant effects to a less-than-significant level; and

WHEREAS, in connection with the approval of a project involving the preparation of an initial study/mitigated negative declaration that identifies one or more significant environmental effects, CEQA requires the decision-making body of the lead agency to incorporate feasible mitigation measures that would reduce those significant environment effects to a less-than-significant level; and

WHEREAS, whenever a lead agency approves a project requiring the implementation of measures to mitigate or avoid significant effects on the environment, CEQA also requires a lead agency to adopt a Mitigation Monitoring and Reporting Program to ensure compliance with the mitigation measures during project implementation; and

WHEREAS, the Town of Yucca Valley is the lead agency on the Project, and the Planning Commission is the decision-making body for the proposed Project; and

WHEREAS, the Planning Commission has reviewed and considered the Initial Study/Mitigated Negative Declaration and related Mitigation Monitoring and Reporting Program for the Project and intends to take actions on the Project in compliance with CEQA and state guidelines implementing CEQA; and

WHEREAS, the Initial Study/Mitigated Negative Declaration and the Mitigation Monitoring and Reporting Program for the Project are, by this reference, incorporated into this Resolution as if fully set forth herein; and

WHEREAS, the Project will not individually or cumulatively have an adverse effect on wildlife resources, as defined in Section 711.2 of the California Department of Fish and Game Code.

NOW THEREFORE BE IT RESOLVED BY THE PLANNING COMMISSION OF THE TOWN OF YUCCA VALLEY AS FOLLOWS:

THAT THE PLANNING COMMISSION does hereby make the following findings: (1) it has independently reviewed and analyzed the Initial Study/Mitigated Negative Declaration and other information in the record and has considered the information contained therein, prior to acting upon or approving the Project, (2) the Initial Study/Mitigated Negative Declaration prepared for the Project has been completed in compliance with CEQA and consistent with state and local guidelines implementing CEQA, and (3) the Initial Study/Mitigated Negative Declaration represents the independent judgment and analysis of the Town as lead agency for the Project.

THAT THE PLANNING COMMISSION does hereby approve construction of the Project (Planning File No. EA 18-23 and SPR 07-23) and adopt the Mitigation Monitoring and Reporting Program prepared for the Project. The Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program are: (1) on file in the Community Development Department Office, located at 58928 Business Center Drive, Yucca Valley, CA, 92284 (2) and area available for inspection by any interested person.

ADOPTED this 14th day of April, 2026.

_____
Alejandro Vasconcelos, Chairperson

ATTEST:

_____
Janet Yochmowitz, Secretary

APPENDICES

APPENDIX A

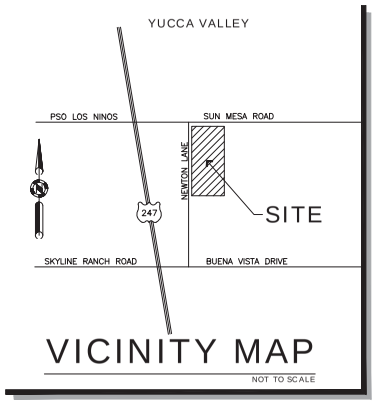
PROJECT PLANS

PROPOSED STORAGE UNIT FACILITY
(MINI SELF STORAGE)

SOUTH-EAST CORNER OF NEWTON LANE AND SUN MESA ROAD
YUCCA VALLEY
SAN BERNARDINO COUNTY, CA

ABREVIATIONS:

AC:	Asphalt Concrete	HB:	Hose Bib
ACT:	Acoustical Ceiling Tile	HC:	Hollow Core
ADA:	Americans with Disabilities Act	HM:	Hollow Metal
ADD:	Additional	HORIZ:	Horizontal
ADJ:	Adjustable	HGT:	Height
AFF:	Above Finish Floor	HTR:	Heater
AHJ:	Authority Having Jurisdiction	HVAC:	Heating, Venting, Air Conditioning
ALUM:	Aluminum		
APPX:	Approximately	IN:	Inch
BD:	Board	INS:	Insulation
BLDG:	Building	INT:	Interior
BLK:	Block	IRR:	Irrigation
BLKG:	Blocking	JAN:	Janitor
BM:	Beam	JT:	Joint Trench
BO:	Bottom Of	LAV:	Lavatory
CALC:	Calculation	LS:	Landscape
CBC:	California Building Code	LTG:	Lighting
CIP:	Cast-in-Place	LVT:	Luxury Vinyl Tile
CJ:	Control Joint	MAX:	Maximum
CMU:	Concrete Masonry Unit	MECH:	Mechanical
CL:	Centerline	MFR:	Manufacturer
CLG:	Ceiling	MIN:	Minimum
CLR:	Clear	MISC:	Miscellaneous
CLO:	Closet	MTL:	Metal
CO:	Clean Out	NIC:	Not In Contract
COL:	Column	NTS:	Not To Scale
CONC:	Concrete	NO:	Number
CONST:	Construction	OC:	On Center
CPT:	Carpet	OD:	Outside Diameter
CT:	Ceramic Tile	OH:	Opposite Hand
DET:	Detail	PC:	Polished Concrete
DG:	Decomposed Granite	PL:	Property Line
DIA:	Diameter	PLAM:	Plastic Laminate
DN:	Down	PT:	Paint
DR:	Door	PVC:	Polyvinyl Chloride
DWG:	Drawing	QTY:	Quantity
E:	Existing	R:	Radius
EA:	Each	RA:	Return Air
ENC:	Enclosure	RD:	Roof Drain
EJ:	Expansion Joint	RO:	Rough Opening
EL:	Elevation	REQD:	Required
ELEC:	Electrical	RM:	Room
ELEV:	Elevation	REV:	Revision
EQ:	Equal	SC:	Solid Core
EQUIP:	Equipment	SECT:	Section
EV:	Eave Vent	SHT:	Sheet
EXH:	Exhaust	SIM:	Similar
EXP:	Expansion	SPEC:	Specification
EXT:	Exterior	STD:	Standard
FE:	Fire Extinguisher	STL:	Steel
FEC:	Fire Extinguisher Cabinet	SUSP:	Suspended
FD:	Floor Drain	SQ:	Square
FDN:	Foundation	STRUC:	Structural
FIN:	Finish	STOR:	Storage
FLR:	Floor	THK:	Thick
FOF:	Face Of Finish	TEL:	Telephone
FTG:	Footing	TO:	Top Of
FIXT:	Fixture	TYP:	Typical
FR:	Fire-Rated	UNO:	Unless Noted Otherwise
FT:	Feet	VCT:	Vinyl Composition Tile
GA:	Gauge	VERT:	Vertical
GALV:	Galvanized	WD:	Wood
GC:	General Contractor	WC:	Water Closet
GL:	Glass	W/O:	With Out
GWB:	Gypsum Wall Board	WWM:	Welded Wire Mesh
GYP:	Gypsum	WDW:	Window



LEGAL DESCRIPTION:

TR 8749, MB 120/50-64 SEC. 13, T1N, R5E., S.B.B.&M.
APN: 0597-111-67

BASIS OF BEARING :

THE SOUTHWEST 1/4 OF SECTION 13 PER TRACT 8749, MB 120/50-64 SAID BEARING BEING N00°00'08"E.

BENCHMARK :

USGS BM 705 24
ELEVATION = 3718.55 FEET, NAVD 88

EARTHWORK VOLUMES:

TOTAL CUT – 4970 CY
TOTAL FILL – 4485 CY

** SEE EARTHWORK EXHIBIT FOR INFORMATION ON CUT-FILL BY LOCATION MAP.*

OWNER/DEVELOPER

ROB BILLINGS
5024 WALLABY STREET
YUCCA VALLEY CA 92284
760-686-4171
BILLINGSTRANSFER@YAHOO.COM

TOPOGRAPHY:

PREPARED BY:
LSAP CONSULTANTS LLC.
ADDRESS: 14997 MCGARGER RD
DESERT HOT SPRINGS , CA 92240
(760) 288-2232
SURVEY@LSAPCONSULTANTS.COM
DATE OF SURVEY JAN 2022

ENGINEER OF RECORD

DRP ENTERPRISES LLC
Daniel Patneaude
MAILING ADDRESS:
PO Box 4428
Palm Springs, CA 92263
206-734-7765
DPATNEAUDE@DRPENTERPRISESLLC.ORG
WWW.DRPENTERPRISESLLC.ORG

Joanne C. Singer RCE 26900
760-625-7426

UTILITY COMPANIES

UTILITY PROVIDERS
WATER
HIGH DESERT WATER DI STRICT
55439 Twentynine Palms Highway, Yucca Valley, CA (760) 365-8333

SEWER
Private septic disposal

GAS
None applicable

ELECTRICITY
SOUTHERN CALIFORNIA EDISON
6999 Old Woman Springs Rd, Yucca Valley, CA 92284 (800) 655-4555

TELEPHONE
VERIZON CALIFORNIA
295 N Sunrise Way, Palm Springs, CA 92262
(760) 778-3610

TV CABLE
TIME WARNER CABLE
73181 Mediterranean Rd, Palm Desert, CA 92211 (760) 674-5404

WASTE DISPOSAL
BURRTEC
4878 Newton Ln, Yucca Valley, CA 92284
(760) 365-2015

DEVELOPMENT STATISTICS
FOR:
BILLINGS MINI STORAGE
S.E.C. NEWTON LANE AND SUN MESA
YUCCA VALLEY, CA

LEGAL DESCRIPTION:	TR 8749, MB 120/50-64 SEC. 13 T1N, R5E., S,B,B,&M.
APN	0597-111-67-0000
TOTAL SITE AREA Gross- Net	189,050 SQ. FT.
Dedications already in place:	4.34 ACRES
ADDRESS:	T.B.D. S.E.C. NEWTON AND SUN MESA, YUCCA VALLEY CA
ZONING: GPLU	C COMMERCIAL
EXISTING AND PROPOSED ZONING	COMMERCIAL
EXISTING AND PROPOSED GPLU	C - COMMERCIAL
EXISTING LAND USE	VACANT LOT
PROPOSED LAND USE	NEW STORAGE UNIT FACILITY (MINI STORAGE)
TYPE OF SEWAGE DISPOSAL	SEPTIC/LEACH FIELD
YUCCA VALLEY GEOHAZARD	MAP F121C (SEE NEXT SHEET FOR MAP)
FEMA	NO IMPACTS
ZONE X	PANEL 06071C8120H 8-28-2008
ZONE X	NO FLOOD DEPTHS OR HAZARDS NOTED OR MAPPED

SCOPE OF WORK: PROPOSED STORAGE UNIT (MINISTORAGE) FACILITY WITH OFFICE MANAGER UNIT. PROJECT TO PROPOSE 5 BUILDING TYPES WITH A TOTAL OF 89,700 S.F. STORAGE. PROJECT PROPOSES BLOCK WALL AND LIGHTING, LANDSCAPE AND OFFSITE IMPROVEMENTS. ALL STORAGE TO BE ENCLOSED. NO OPEN STORAGE IS PROPOSED.

OWNER APPLICANT:	**REPRESENTATIVE:**
ROB BILLINGS	DRP ENTERPRISES LLC
5024 WALLABY STREET	DAN PATNEAUDE
YUCCA VALLEY, CA 92284	P.O. BOX 4428
(760) 686-4171	PALM SPRINGS, CA 92263
billingstransfer@yahoo.com	(206) 734-7765
	dpatneaude@drpenterprisesllc.org

PER MUNICODE SEC. 9.10 INDUSTRIAL DISTRICTS

SETBACKS:		MAX. FENCE HT
FRONT:	15'-0"	8'-0" MAX.
REAR:	0'	10'-0" MAX.
SIDE:	0'	10'-0" MAX.
STREET SIDE:	15'-0"	10'-0" MAX.

PER MUNICODE SEC. 9.14.060 MINI/SELF-STORAGE FACILITIES

ALLOWABLE BUILDING HEIGHT:	20'-0" ONE STORY
AREAS:	400 S.F. ONE STORY OFFICE/MANAGER UNIT 89,700 S.F STORAGE UNIT TOTAL
FAR: 70% MAX.	89,700 s.f. /220,786 s.f. = 0.406 40.6 % < 70% .: FAR o.k.

TYPES:	**UNIT COUNT:**						
	5X10 50 S.F.	10x20 200 S.F.	20x20 400 S.F.	25x20 500 S.F.	TOTAL S.F. PER BLDG.	NO. BLDG. TYPES	TOTAL S.F. PER BLDG. TYPE
TYPE "A"	16	20	-	-	4,800 S.F.	10	48,000 S.F.
TYPE "B"	16	-	10	-	4,800 S.F.	6	28,800 S.F.
TYPE "C"	-	-	-	10	5,000 S.F.	1	5,000 S.F.
TYPE "D"	-	-	-	15	7,500 S.F.	1	7,500 S.F.
TYPE "E"	-	-	1 MGR.UNIT NOT INCL.	-	400 S.F.	1	400 S.F.
TOTAL UNITS	256	200	60	25		TOTAL S.F.	89,700 S.F.

PARKING REQUIREMENTS:

PER MUNICODE SEC. 9.33.040-C, TABLE 3-7 MINI/SELF-STORAGE FACILITIES:: STANDARD 9X19 PARKING STALLS:	**REQUIRED:**	**PROVIDED:**
6 SPACES + 2 CARETAKERS	8	8
ACCESSIBLE STALLS:	1 reqd	
STANDARD:	1	1
VAN:	1	1
		10
LOADING SPACES: ONE PER PER 20,000 S.F. 10 FT X 20 FT:	5	5
TOTAL PARKING ON SITE:	8 REQUIRED	10 PROVIDED

NOTE: ALL PARKING STALLS SHALL BE 9'-0" x 19'-0" MIN. BACKUP-1 WAY ISLES SHALL BE MIN. 12'-0" WIDE, PER CITY STANDARDS. BACKUP-2 WAY ISLES SHALL BE MIN. 25'-0" WIDE, PER CITY STANDARDS.

SHEET INDEX

PAGE #	SHEET NUMBER	SHEET INDEX
01	C-1.0	COVER SHEET THIS SHEET
02	T-1.0	SITE PLAN
03	T-1.1	ENLARGED SITE PLAN
04	T-1.2	ENLARGED SITE PLAN
05	T-2.0	FLOOR PLANS
06	T-3.0	ELEVATIONS
07	T-4.0	COLOR ELEVATIONS
08	T-4.1	MANAGERS UNIT COLOR ELEVATIONS
09	T-4.2	SAMPLE COLOR PERSPECTIVE ELEVATIONS
10	T-5.0	COLOR BOARDS
11	T-6.0	LANDSCAPE PLAN

IF THESE DRAWINGS ARE SMALLER THAN 36" X 24" THEY HAVE BEEN REDUCED.

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No.	Revision/Issue	Drawn by	Checked by	Date
	PRELIMS		DRP/JS	06-03-22

DRP Enterprises

Engineer

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 40'-0"

Project Number & Sheet Number

C-1.0

9.14.060: MINI-/SELF-STORAGE FACILITIES:

A. General: The only commercial activities permitted on the site of a self-service storage facility shall be rental of storage bays and pick up and deposit of goods and/or property in dead storage. Storage bays shall not be used to: manufacture, fabricate or process goods; service or repair vehicles, boats, small engines or electrical equipment, or to conduct similar repair activities; conduct garage sales or retail sales of any kind; or conduct any other commercial or industrial activity on the site.

B. Security Quarters Permitted: Residential quarters for security purposes may be established on the site.

C. Bays Have No Legal Address: Individual storage bays or private postal boxes within a self-service storage facility shall not be considered a premises for the purpose of assigning a legal address in order to obtain an occupational license or other governmental permit or license to do business.

D. Outside Storage:

1. Except as provided in this section, all property stored on site shall be entirely within enclosed buildings.

2. Open storage of private recreational vehicles and dry storage of recreational boats for personal use shall be permitted within a self-service storage facility provided that the following is met:

a. Such storage shall take place only within a designated area. The area so designated shall be clearly delineated upon the site plan accompanying the application;

b. The open storage area shall not exceed twenty five percent (25%) of the buildable area of the site;

c. The open storage area shall be entirely screened from view from adjacent residential areas and all street rights of way by a solid building wall or a masonry wall with a minimum height of eight feet (8');

d. Vehicles shall not be stored within the area set aside for minimum building setbacks; and

e. No vehicle maintenance, washing or repair shall be permitted on site. Recreational boats stored on the site shall be placed and maintained upon wheeled trailers. No dry stacking of boats shall be permitted on site.

E. Minimum Lot Size: Notwithstanding any other provision of this code the minimum lot size for a self-storage facility shall be one acre.

F. Separation Between Storage Buildings: If separate buildings are constructed, there shall be a minimum ten foot (10') setback between individual buildings within the facility.

G. Maximum Bay Size: The maximum size of a storage bay shall be five hundred (500) square feet.

H. Maximum Building Height: With the exception of a structure used as a security quarters, the maximum height of a self-service storage facility shall be one story. The height of the building shall not exceed twenty feet (20'), except for any architectural features located along the street entrance to the facility. In addition, a parapet wall shall be constructed to screen roof mounted air conditioning and other equipment, if any. The combined height of the building and the parapet wall shall not exceed twenty five feet (25').

I. Parking Requirements: See , "Parking And Loading Regulations", of this title for ministorage parking requirements.

J. Miscellaneous Requirements:

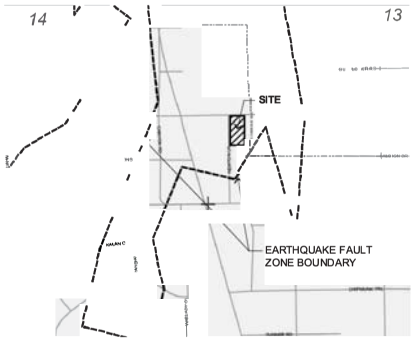
1. Outdoor Lighting: All outdoor lighting shall meet the requirements of title 8,, "Outdoor Lighting", of this code.

2. Loudspeakers: Exterior loudspeakers or paging equipment shall not be permitted on the site.

3. Bay Doors: Storage bay doors shall not face any abutting property which is residentially zoned, nor shall they be visible from any adjacent residential property or any street right of way.

4. Barbed Wire: Barbed or similar wire may be used for security purposes, but it shall not be visible from any adjacent residential property or any street right of way.

5. Architectural Treatment: The exterior facades of all structures shall receive uniform architectural treatment, including stucco and painting of surfaces. All structures adjacent to properties designated with a residential land use shall have a pitched roof or other treatment comparable to the adjacent residential development. (Ord. 253, 12-16-2014)



PARTIAL F121C FAULT ZONE MAP

LEGEND:

→ ARROWS INDICATE DRAINAGE PATTERN TO BASIN (SEE CIVIL DWGS FOR ADD'L INFO.)

1. STANDARD 9 FT X 19 FT. PARKING STALL W/ 6" WIDE x 48" LONG WHEEL STOP
2. ACCESSIBLE PARKING STALL 2% MAX. SLOPE
3. ACCESS AISLE, 2% SLOPE AND CROSS SLOPE
4. DECOMPOSED GRANITE
5. 400 S.F. MANAGER UNIT OFFICE SPACE
6. ROLLING SECURITY GATES
7. ACCESSIBLE ROUTE, MIN 4' WIDE NOT TO EXCEED 5% SLOPE, 2% CROSS SLOPE
8. TRASH ENCLOSURE PER CITY STANDARDS
9. LIGHT STANDARD, TYP. AS SHOWN - PER CITY STANDARDS
10. WALL PACK, TYP. AS SHOWN
11. APSHALT CONRETE SURFACE, DRAIN TO BASIN, SEE CIVILS DRAWINGS
12. CONC. CURB AND GUTTER - PER CITY STANDARDS
13. 6" DIA. CONC. FILLED BOLLARDS AS SHOWN, EMBEDDED MIN. 36" INTO GROUND
14. CONC. PAD AT NEW ELECTRICAL SERVICE LOCATION TBD
15. CONC. CURB
16. PERIMETER CMU WALL, 6 FT. MAX. HT.
17. CMU WALL WITH DRAINAGE OPENINGS MADE OF W.I. FENCE (TBD)
18. DECORATIVE ROCK LANDSCAPING: LARGE RIVERROCK W/ RANDOM BOULDERS
19. RETENTION BASIN
20. 20 FT WIDE FIRE LANE
21. 10FT X 20 FT LOADING ZONE, TYP. AS SHOWN
22. LEACH FIELD, SEE CIVIL DRAWINGS
23. SEWER LINE, SEE CIVIL DRAWINGS
24. WATER LINE, SEE CIVIL DRAWINGS
25. ELECTRICAL LINE TO PULL DROP ON NEWTON LN, SEE CIVIL DRAWINGS

NOTES:
1. THE SITE IS NOT LOCATED WITHIN A RESOURCE AREA AS IDENTIFIED IN THE ARCHEALOCICAL AND HISTORICAL RESOURCE ELEMENT OF THE GENERAL PLAN.
2. THE SITE DOES NOT CONTAIN ANY NATURAL, ECOLOGICAL AND OR SCENIC RESOURCES.
3. THE SITE DOES NOT CONTAIN DRAINAGE SWALES AND OR CHANNELS THAT BORDE OR CROSS THE SITE.
4. THE SITE IS NOT LOCATED NOR PROPOSED SLOPES OF FIFTEEN PERCENT (15%) OR MORE AND DOES NOT PROPOSE FILLS OF FIFTEEN PERCENT (15%) OR MORE.
5. NO POTENTIAL WELLS, HAZARDS, ETC. WERE FOUND DURING SITE INVESTIGATION.
6. SITE IS LOCATED IN MAP F121C OF GEOHAZARD MAP FOR YUCCA VALLEY, SEE PARTIAL MAP THIS SHEET FOR LOCATION AND BOUNDARIES.
7. SEE CIVIL DRAWINGS FOR ADDITIONAL INFORMATION AND ALL PROPERTY LINE AND BOUNDARIES.

TYPICAL SECTION
LEVEL

TYPICAL SECTION
TILT

NOTES:
1. CURB AND GUTTER PER STD. DWG. NO. 200
2. A.C. DIKE PER STD DWG. NO 202 * *
3. SIDEWALK PER STD DWG. NO. 220
4. PAVEMENT SECTION PER STD. DWG. NO. 240

* SIDEWALK REQUIREMENT PER DEVELOPMENT CODE
** LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

APPROVED: DIRECTOR OF PUBLIC WORKS _____ DATE 11/17/16

APPROVED: TOWN ENGINEER _____ R.C.E. 39827 DATE 11/17/16

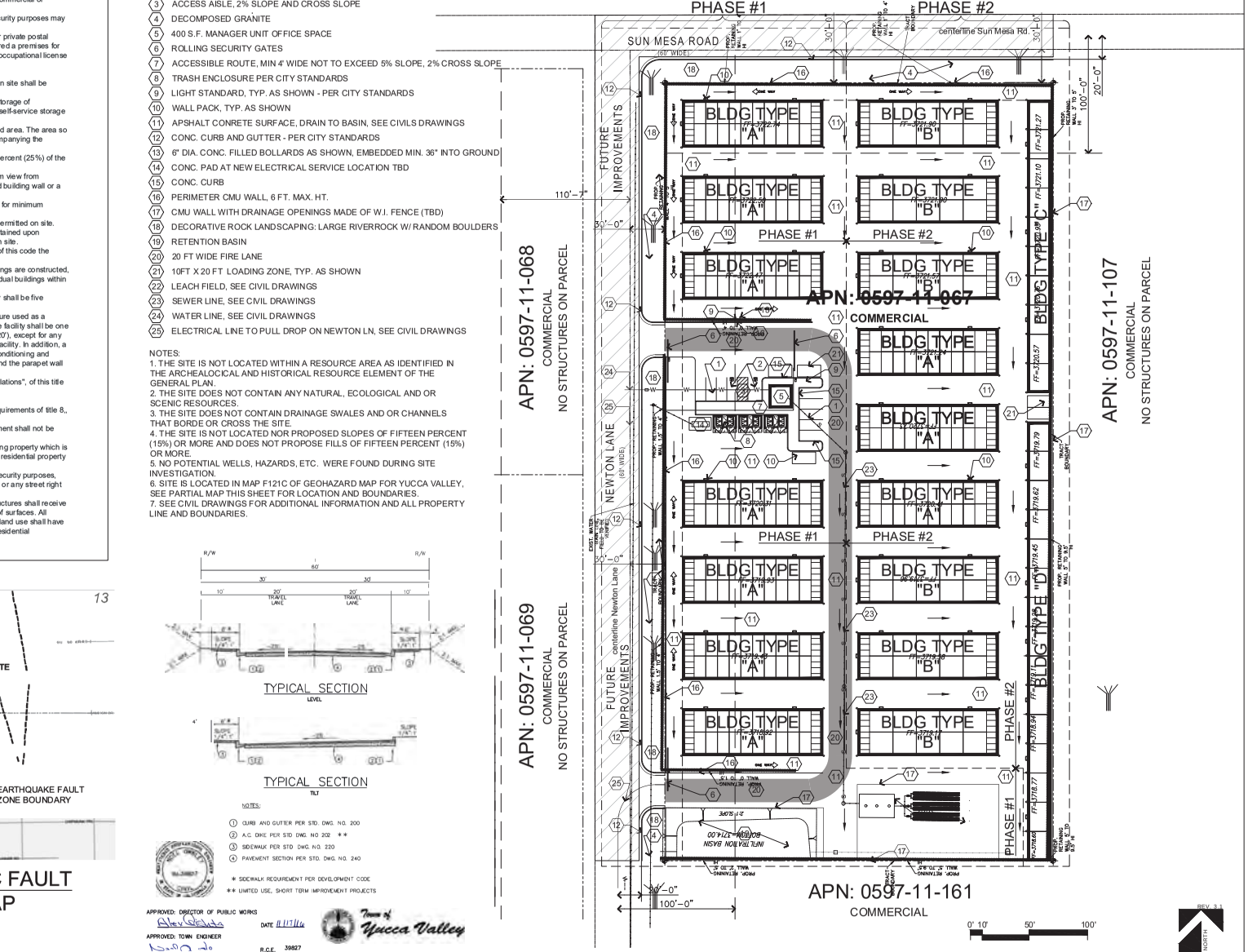
Town of Yucca Valley

LOCAL

REVISED TO REFLECT CURRENT GENERAL PL. I-N- 9/21/16

REVISION BY DATE

STANDARD DRAWING NO. 101



OVERALL SITE PLAN
SCALE: 1" = 40'-0"

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	PRELIMS		DRP/JS	09.03.22

DRP Enterprises

Engineer

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 40'-0"

Project Number & Sheet Number

T-1.0

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Engineer

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SUN MESA ROAD
YUCCA VALLEY, CA

Project

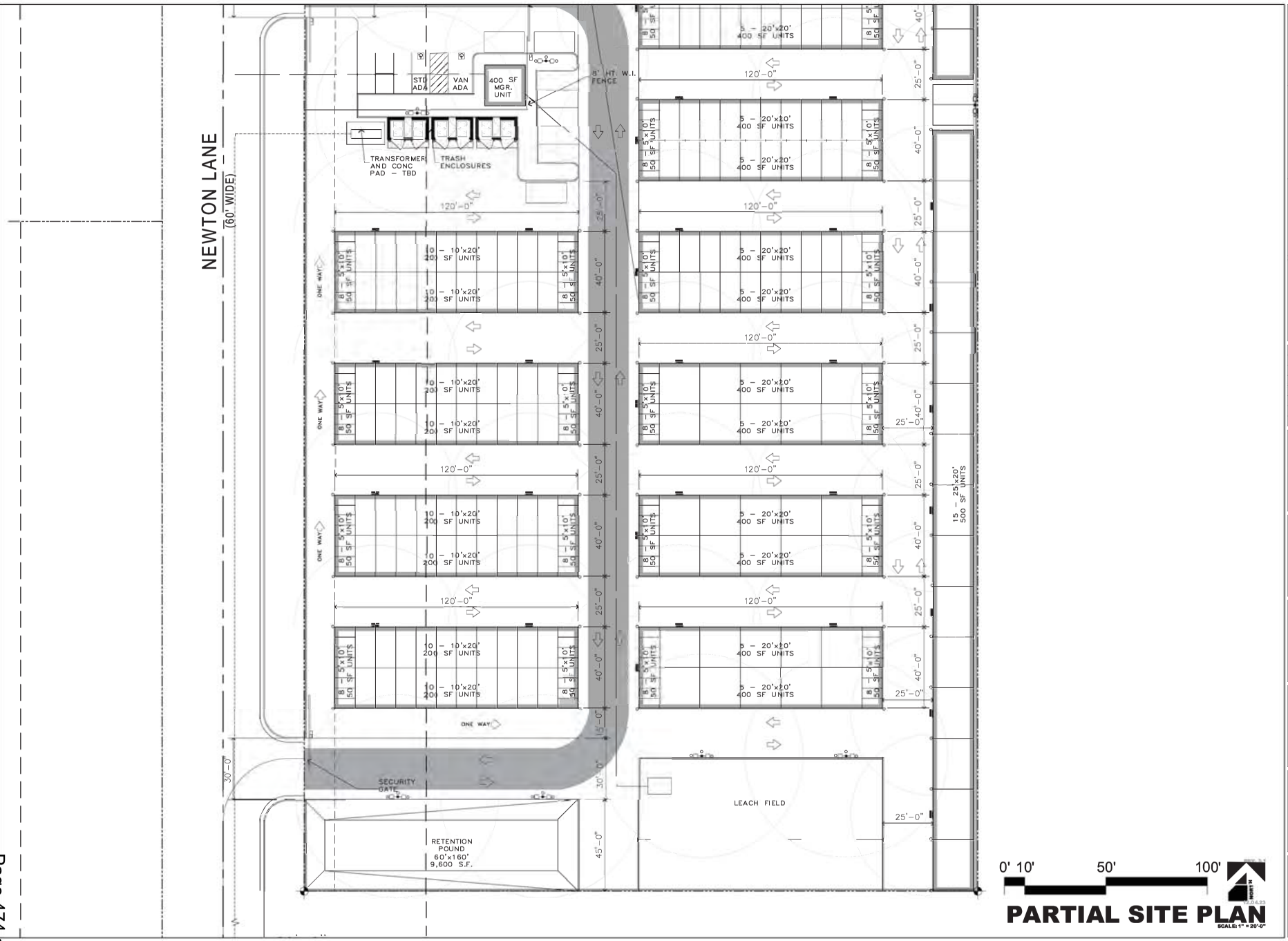
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 20'-0"

Project Number & Sheet Number

T-1.1



0' 10' 50' 100'

PARTIAL SITE PLAN

SCALE: 1" = 20'-0"

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SUN MESA ROAD
YUCCA VALLEY, CA

Project

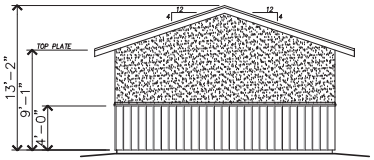
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

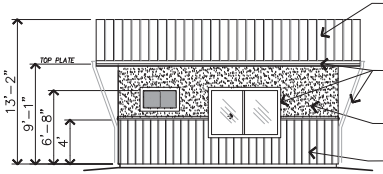
1" = 20'-0"

Project Number & Sheet Number

T-1.2



EAST ELEVATION



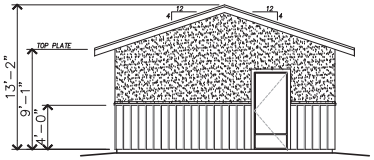
SOUTH ELEVATION

CLASS "A" METAL ROOF COLOR: *POLAR WHITE*

TRIM, GUTTERS, FASCIA: *KOKO BROWN*

STUCCO COLOR: *SADDLE TAN*

WAINCOTING COLOR: *CHARCOAL GRAY*



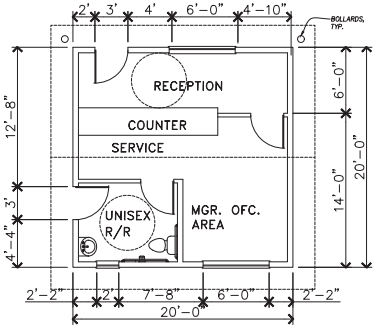
WEST ELEVATION

NORTH ELEVATION

3/16"=1'-0"

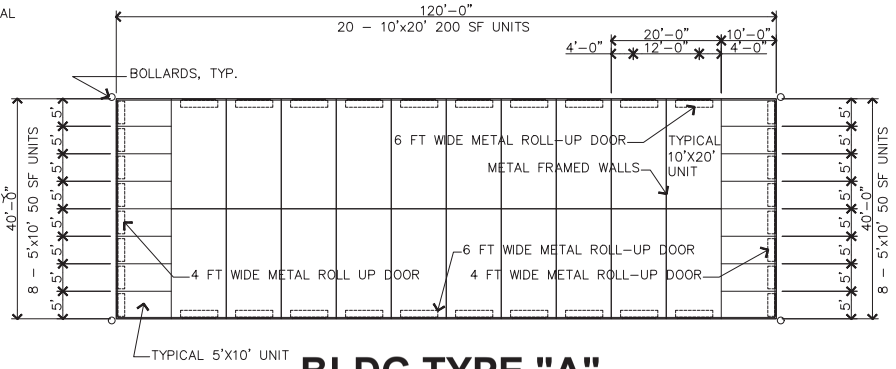
ALL COLORS: *EMPIRE SIGNATURE 200 STANDARD COLORS*

NOTES:
1. CLASS "A" STANDING SEAM METAL ROOF, COLOR POLAR WHITE
2. GUTTERS AND DOWNSPOUTS COLOR: *KOKO BROWN*
3. BOLLARDS TO BE YELLOW REFLECTIVE AND OR WITH REFLECTED STRIPES.

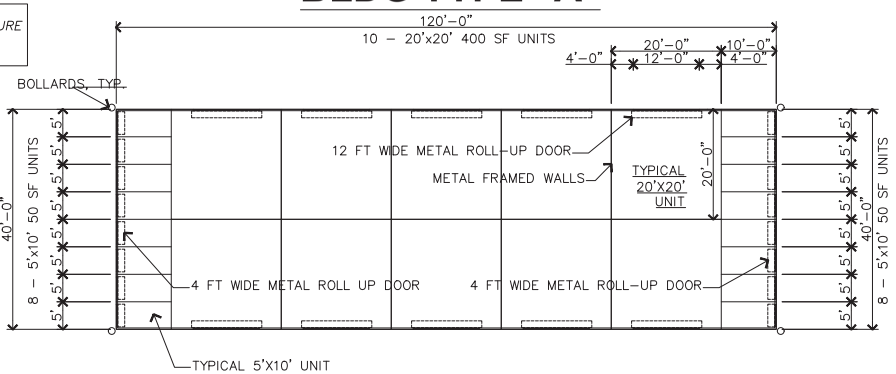


MANAGERS UNIT

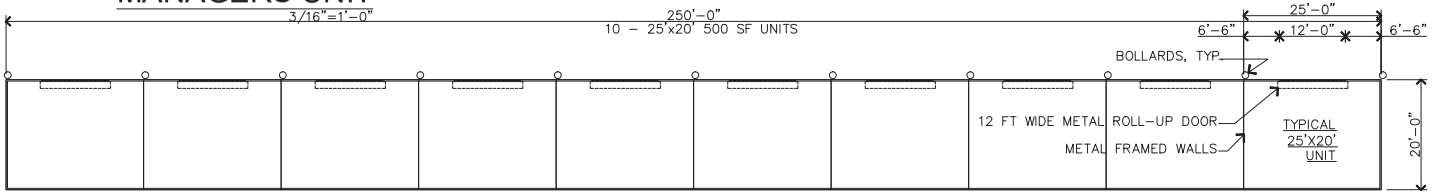
3/16"=1'-0"



BLDG TYPE "A"



BLDG TYPE "B"



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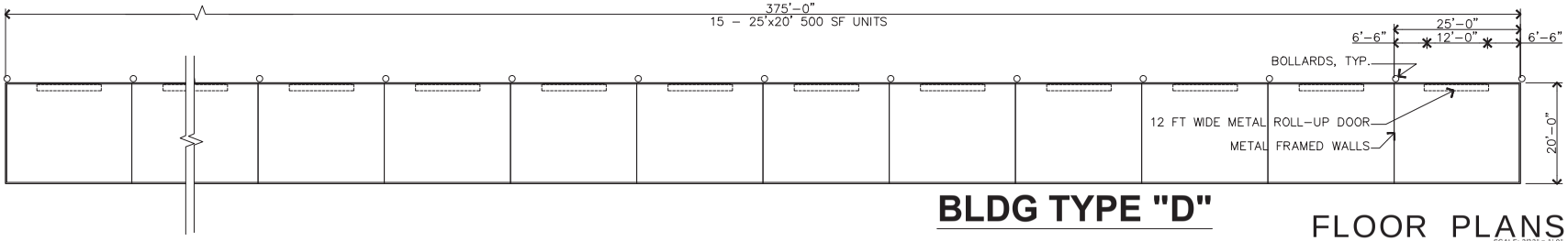

BLDG TYPE "D"

FLOOR PLANS

SCALE: 3/32" = 1'-0"

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	P.REL.ISS		DRP/JB	06-03-22

DRP Enterprises

Engineer

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

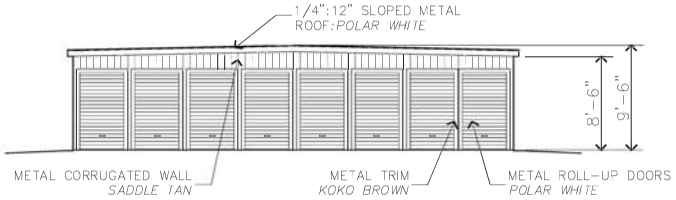
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

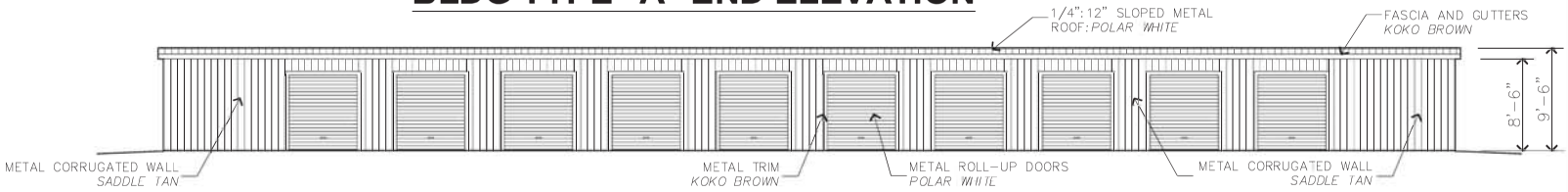
3/32" = 1'-0" U.N.O.

Project Number & Sheet Number

T-2.0

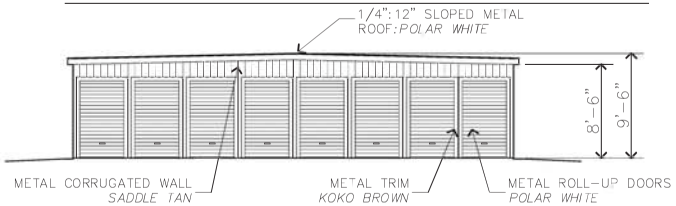


BLDG TYPE "A" END ELEVATION



BLDG TYPE "A" SIDE ELEVATION

NOTE: ONE ELEVATON SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL



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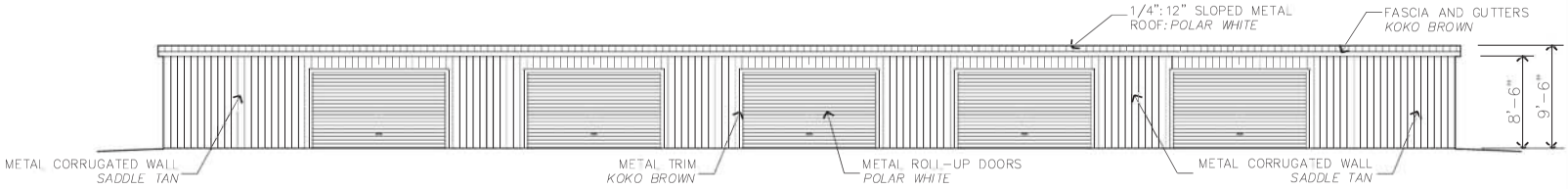

BLDG TYPE "B" SIDE ELEVATION

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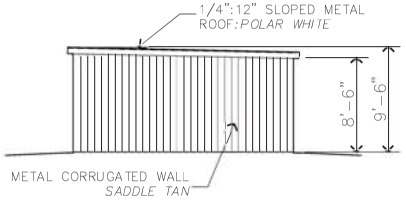
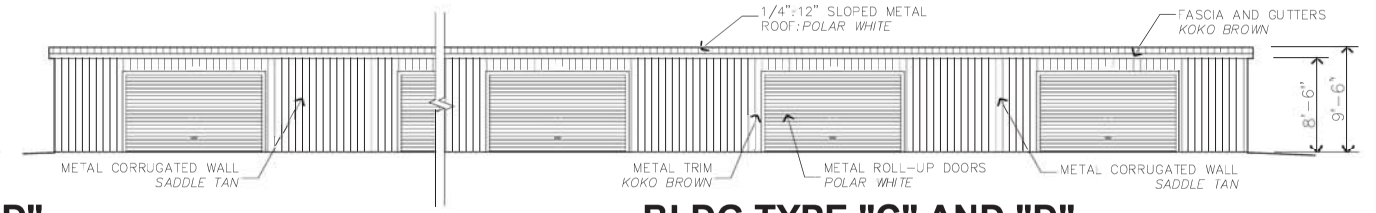


BLDG TYPE "C" AND "D" END ELEVATION



BLDG TYPE "C" AND "D" SIDE ELEVATION

NOTES:
1. ALL METAL TO BE 26 GA. UNLESS NOTED OTHERWISE
2. ALL ROOF AND WALL PANELS TO BE 80k PSI GALVANIZED STEEL (GALVALUME+ OR BETTER)
3. ALL DOOR HANDLES TO BE 15" FROM GROUND MIN. AND 48" FORM GROUND MAX.
4. GUTTERS AND DOWNSPOUTS INTEGRAL WITH METAL ROOF OVERHANGS AND EAVES WITH COLOR: *EMPIRE SIG 200 KOKO BROWN*
5. BOLLARDS TO BE YELLOW REFLECTIVE PAINT AND OR WITH REFLECTED STRIPES.
6. PROVIDE 4' HT. WAINSCOT AT UNITS VISIBLE FROM STREET. COLOR: *EMPIRE SIG 200 CHARCOAL GRAY*
7. *ALL COLORS TO BE EMPIRE SIGNATURE 200 STANDARD COLORS.*

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	PRELIMS		DRP/JB	08-03-22

DRP Enterprises

Engineer

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

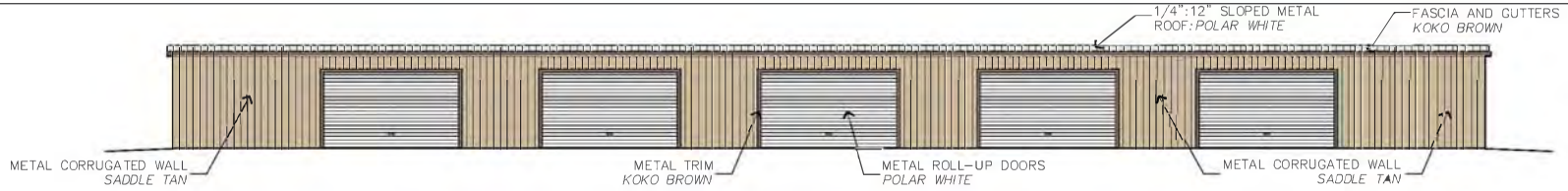
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

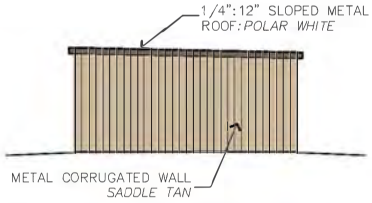
Project Number & Sheet Number

T-3.0

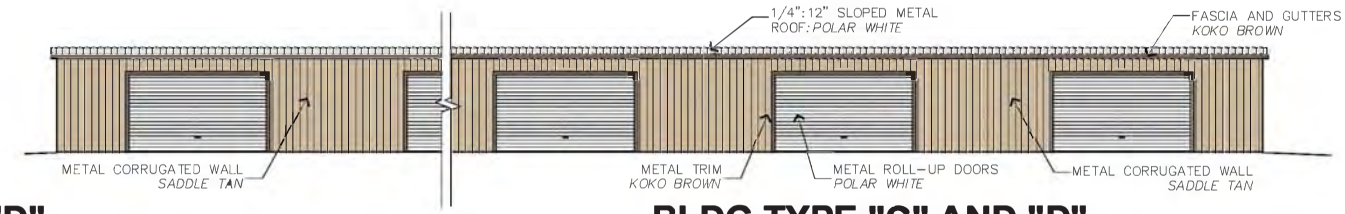


BLDG TYPE "B" SIDE ELEVATION

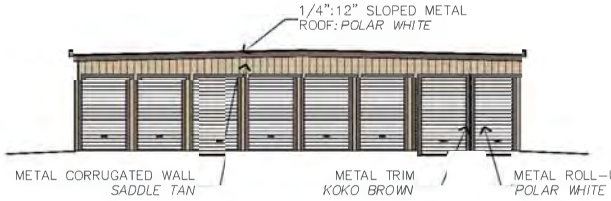
NOTE: ONE ELEVATION SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL



BLDG TYPE "C" AND "D" END ELEVATION



BLDG TYPE "C" AND "D" SIDE ELEVATION



BLDG TYPE "A" END ELEVATION

NOTES:
1. ALL METAL TO BE 26 GA. UNLESS NOTED OTHERWISE
2. ALL ROOF AND WALL PANELS TO BE 80k PSI GALVANIZED STEEL (GALVALUME+ OR BETTER)
3. ALL DOOR HANDLES TO BE 15" FROM GROUND MIN. AND 48" FORM GROUND MAX.
4. GUTTERS AND DOWNSPOUTS INTEGRAL WITH METAL ROOF OVERHANGS AND EAVES WITH COLOR: *EMPIRE SIG 200 KOKO BROWN*
5. BOLLARDS TO BE YELLOW REFLECTIVE PAINT AND OR WITH REFLECTED STRIPES.
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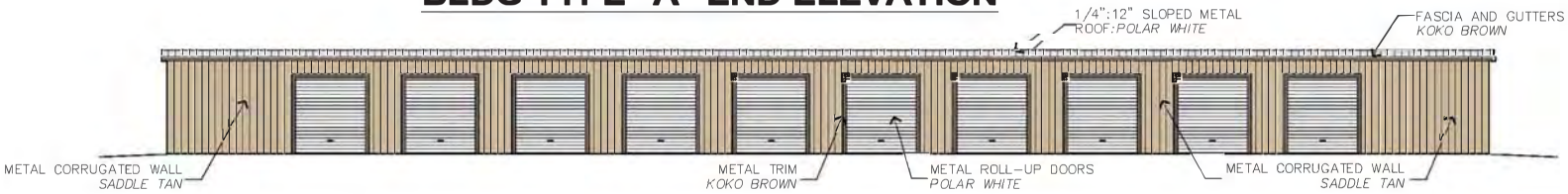
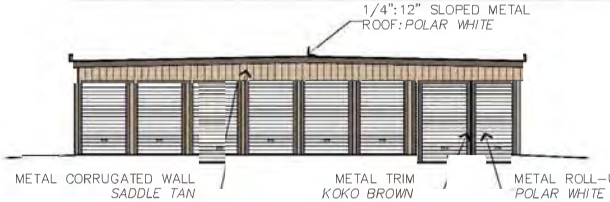
7. *ALL COLORS TO BE EMPIRE SIGNATURE 200 STANDARD COLORS.*



BLDG TYPE "A" SIDE ELEVATION

NOTE: ONE ELEVATION SHOWN FOR SIDE AND END ELEVATIONS AS OPPOSITE ELEVATIONS ARE IDENTICAL



BLDG TYPE "B" END ELEVATION

PROPOSED COLORS:

MAIN BUILDING SIDING
SADDLE TAN

WAINCOTING
CHARCOAL GRAY

ROLL-UP / OFC DOORS
POLAR WHITE

TRIM, GUTTERS, FASCIA
KOKO BROWN

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			DA/MR	09-09-22

DRP Enterprises

CERTIFIED ARCHITECT DAVID A. RUSSELL ARCHITECT No. C-34615 2025 STATE OF CALIFORNIA

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

T-4.0

EAST ELEVATION

SOUTH ELEVATION

WEST ELEVATION

NORTH ELEVATION

3/16"=1'-0"

ALL COLORS:
EMPIRE SIGNATURE 200 STANDARD COLORS

PROPOSED COLORS:

MAIN BUILDING SIDING
SADDLE TAN

WAINCOTING
CHARCOAL GRAY

ROLL-UP/OFC DOORS
POLAR WHITE

TRIM, GUTTERS, FASCIA
KOKO BROWN

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ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

T-4.1

SAMPLE PERSPECTIVE ELEVATIONS

NOTE: THESE PERSPECTIVE ELEVATIONS ARE REPRESENTATIVE ONLY, TO ILLUSTRATE THE TYPE OF METAL BUILDING PROPOSED.

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	PRELIMS		DRP/JB	08-03-22

DRP Enterprises

Engineer

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

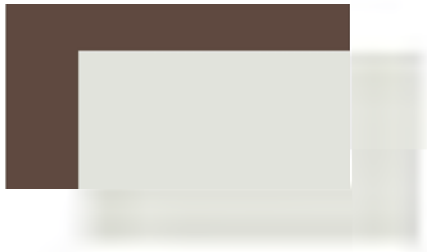
3/16" = 1'-0"

Project Number & Sheet Number

T-4.2

TRIM, GUTTERS, FASCIA
KOKO BROWN
MAIN BUILDING SIDING
SADDLE TAN

MAIN BUILDING SIDING
SADDLE TAN



TRIM, GUTTERS, FASCIA
KOKO BROWN
ROLL-UP/OFC DOORS
POLAR WHITE

WAINCOTING
CHARCOAL GRAY

METAL ROOF/ROLL-UP DOORS
OFFICE DOORS
POLAR WHITE

METAL ROOF/ROLL UP DOORS
OFFICE DOORS
POLAR WHITE
WAINCOTING
CHARCOAL GRAY

TRIM, GUTTERS, FASCIA
KOKO BROWN

NOTE:
ALL COLORS SHOWN ARE TO BE EMPIRE SIGNATURE 200 STANDARD COLORS AND ARE ENERGY STAR QUALIFIED COLORS

COLOR BOARD

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DRP Enterprises

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Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

3/16" = 1'-0"

Project Number & Sheet Number

T-5.0

NOTES:
ALL PLANTINGS SHALL BE INSTALLED IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES AND NURSERY AND MANUFACTURERS SPECIFICATIONS., RECOMMENDATIONS AND REQUIREMENTS. NOTIFY THE ARCHITECT IMMEDIATELY IN WRITING PRIOR TO SIGNING OF A CONTRACT WITH THE OWNER OF ANY CONFLICTS. CONFLICTS NOTED AFTER CONTRACT SIGNING OR AFTER THE COMMENCEMENT OF WORK SHALL BE THE SOLE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

VERIFICATION:
PLANT MATERIAL AVAILABILITY SHALL BE CONFIRMED BY LANDSCAPE CONTRACTOR PRIOR TO BIDDING. SHOULD SPECIFIED MATERIAL NOT BE AVAILABLE, THE ARCHITECT AND OWNER SHALL BE NOTIFIED PRIOR TO BID DATE. PLANT SUBSTITUTIONS MAY ONLY BE MADE IF A PLANT BECOMES UNAVAILABLE. SUBSTITUTIONS WILL NOT BE PERMITTED UNLESS SUBSTANTIATED WRITTEN PROOF IS SUPPLIED THAT A SPECIFIED PLANT IS NOT OBTAINABLE. IN THIS SITUATION A PLANT CAN ONLY BE SUBMITTED BY A PLANT OF SIMILAR SIZE, HABITAT, AND VALUE. ABSOLUTELY NO SUBSTITUTIONS CAN BE MADE WITHOUT THE APPROVAL OF THE PROJECT ARCHITECT. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLANT QUANTITIES.

SCHEMATIC:
THE FEATURES ARE SHOWN SCHEMATICALLY FOR GRAPHIC CLARITY. PRIOR TO PLANTING VERIFY EXACT LOCATIONS WITH OWNER. VERIFY LOCATION OF ALL UTILITY LINES PRIOR TO INSTALLATION AND ADJUSTMENT FOR GENERAL INTENT IF CONFLICT EXISTS.

FINISH GRADE:
LANDSCAPE CONTRACTORS SHALL NOT FINE GRADE, AMEND SOIL OR DO ANY PLANTING OR IRRIGATION WORK UNTIL FINAL GRADES ARE ESTABLISHED WITHIN 0.1' BY GENERAL CONTRACTOR.

FINISH GRADES IN PLANTING AREAS:
FINISH GRADES SHALL CONFORM TO GRADING PLAN. FINISH GRADES SHALL BE 1" INCH BELOW ADJACENT HARDSCAPE IN TURF AREAS AND 2" INCHES BELOW ADJACENT HARDSCAPE IN FROM AREAS. POSITIVE DRAINAGE AWAY FROM BUILDING AND WALKWAYS SHALL BE MAINTAINED.

ROUTE BARRIERS:
SEE DETAILS REGARDING ROOT BARRIER REQUIREMENTS.

PLANTING DEPTH:
THE LANDSCAPE CONTRACTOR SHALL PLANT ALL PLANTS AS SHOWN ON THE DETAILS. SHOULD THE LANDSCAPE CONTRACTOR OVERDIG PLANTING HOLES, AND THE PLANT OR PLANTS SETTLE, THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLANT THESE PLANTS CORRECTLY. SHOULD REPLANTING WEAKEN IN THE PLANT, THE LANDSCAPE CONTRACTOR SHALL REPLACE PLANT IMMEDIATELY. SHOULD ANY PLANTS SETTLE DURING THE ONE YEAR WARRANTY PERIOD, THEY SHALL BE REPLACED BY THE LANDSCAPE CONTRACTOR. ALL REPLANTING AND REPLACEMENT SHALL BE DONE BY THE CONTRACTOR WITHIN TWO WEEKS OF NOTIFICATION AT NO ADDITIONAL COST TO THE OWNER. ALL REPLACEMENT PLANTINGS SHALL BE PROVIDED BY THE CONTRACTOR TO MATCH THE SAME SIZE OF THE SURROUNDING PLANT (E.I. REPLACEMENT PLANTS FOR ONE GALLON SIZE MAY REQUIRE REPLACEMENT BY FIVE GALLON, FIVE GALLON BY 15 GALLON, 15 GALLON BY 24 INCH BOX ETC.). ARCHITECT SHALL HAVE THE FINAL DECISION AS TO WHICH PLANTS ARE TOO DEEP AND IF ANY PLANTS HAVE BEEN WEAKENED BY REPLANTING AND REQUIRE REPLACEMENT.

TREE PLANTING:
THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE TO ADEQUATELY PLAN FOR TREE PLANTING WHILE INSTALLING THE IRRIGATION SYSTEM. NO TREES OR SHRUBS SHALL BE PLANTED DIRECTLY ON TOP OF IRRIGATION LINES.

BACKFILL:
BACKFILL FOR PLANTING WITH 50 PERCENT CLEAN NATIVE SOIL AND 50 PERCENT NITROLIZED FOREST HUMUS NITROLIZED SAWDUST. PLANT TREES AND SHRUBS WITH TOP OF ROOT BALL SLIGHTLY ABOVE GROUND LEVEL. SET PLANT ON NATIVE GRADE. IF HOLE IS OVERDUG BACKFILL WITH THREE-QUARTER-INCH GRAVEL TO POINT WHERE PLANT CROWN IS ABOVE GROUND LEVEL. SET PLANT, BACKFILL HALFWAY, TAMP SOIL, AND FERTILIZER TABLETS THEN COMPLETE BACKFILL. SEE DETAIL. SLOW-RELEASE FERTILIZER PACKS SHALL BE ADDED WHEN PLANTING AS FOLLOWS: ONE FOR ONE GALLON, 3 PER 5 GALLON, 6 FOR 15 GALLON, 12 FOR 24" INCH BOX. PROVIDE WATERING BASIN AROUND EACH PLANT. WATER IMMEDIATELY. REMOVE BASINS IN TURF AREAS PRIOR TO PLANTING TURF.

SOIL PREPARATION:
REMOVE STONES, ROOTS AND OTHER DEBRIS FROM THE PLANTING AREA. COMPACTED SOIL SHALL BE RETURNED TO A FRIABLE CONDITION. APPLY WATER AS NEEDED TO OBTAIN OPTIMUM MOISTURE CONTENT FOR SOIL PREPARATION AND PLANTING. SEATED OR HYDROSEEDED TURF AND FLATTED GROUND COVER AREAS; TILL INTO TOP 6 INCH OF SOIL BEST 6- 20 - 20XB FERTILIZER (OR APPROVED EQUAL) AT 20 POUNDS PER THOUSAND SQUARE FEET, A 2 INCH LAYER (6 CUBIC YARDS PER THOUSAND SQUARE FEET) NITROLIZED HUMUS, AND 92 POUNDS PER THOUSAND SQUARE FEET 95 PERCENT SPREADABLE GYPSUM. SODDED TURF SAME AS ABOVE WITH ONLY ONE CUBIC YARD PER THOUSAND SQUARE FOOT NITROLIZED HUMUS.

HERBICIDES:
LANDSCAPE CONTRACTOR WILL APPLY RONSTAR OR APPROVED EQUAL PER MANUFACTURER'S REQUIREMENTS AFTER PLANTING. CONFORM TO ALL NATIONAL, STATE AND LOCAL REPORTING REQUIREMENTS. LANDSCAPE CONTRACTOR WILL MAINTAIN THE PROJECT IN A WEED FREE CONDITION UNTIL END OF MAINTENANCE PERIOD.

SPECIALTY PLANTS:
THE LANDSCAPE CONTRACTOR SHALL PROVIDE ALL AMENDMENTS AND SPECIALTY MATERIALS NEEDED FOR PLANTS THAT REQUIRES SPECIAL PLANTING MEDIA. AZALEAS, JAPANESE MAPLES AND CAMELLIAS SHALL BE PLANTED IN A MIXTURE OF HALF PRE-MOISTENED PETE MOSS AND HALF NATIVE SOIL. OTHER PLANS REQUIRING SPECIAL PLANTING MEDIA WILL BE NOTED IN THE LEGEND. THE CONTRACTOR SHALL PROVIDE SPECIALTY MEDIA AS A PORTION OF COMPLETE PROJECT AT NO ADDITIONAL COST TO THE OWNER.

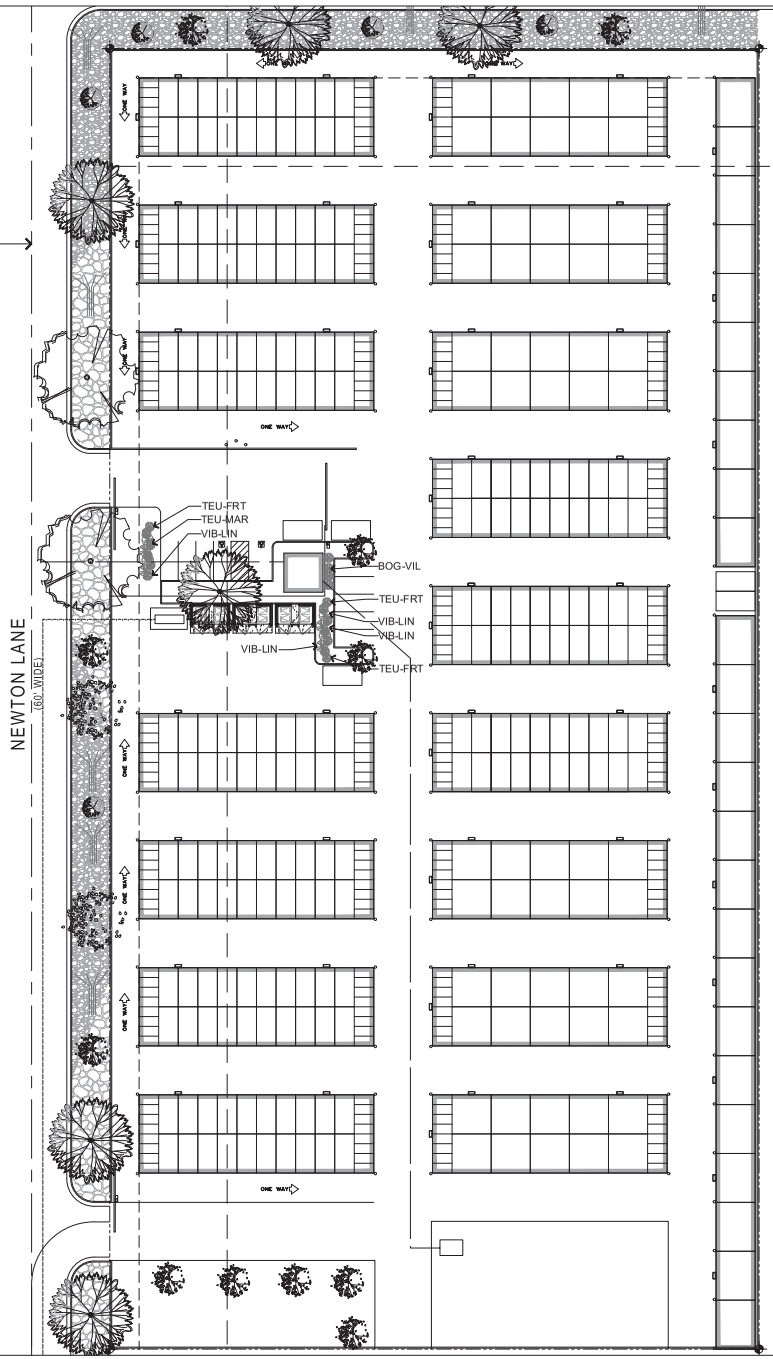
TREES:
ALL THREE SHALL MEET THE REQUIREMENTS OF AMERICAN ASSOCIATION OF NURSERYMEN 'AMERICAN STANDARD OR NURSERY STOCK'. THREE SHALL BE OF EXCELLENT HEALTH WITHOUT DAMAGE OR CIRCLING ROOTS OR FOLIAR DAMAGE FROM FUNGUS, INSECT, SUN OR WIND EXPOSURE OR OTHER BIOLOGICAL OR CLIMATIC CAUSES. THE ARCHITECT OR OWNER RESERVE THE RIGHT TO REJECT UNSUITABLE TREES EVEN AFTER PLANTING. LANDSCAPE CONTRACTOR SHALL REQUEST EVALUATION BY ARCHITECT PRIOR TO PLANTING IF HE/SHE HAS QUESTIONS REGARDING SUITABILITY. IF THE EVALUATION REQUIRES A SITE VISIT NOT PREVIOUSLY SCHEDULED, THE COST OF THE EVALUATION SHALL BE BORNE BY THE CONTRACTOR. TREES SHALL BE STAKED PER DETAIL.

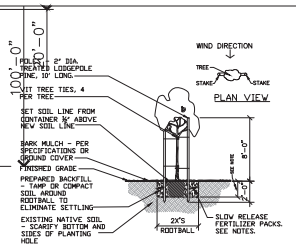
TREE CALIPER:
TREES WILL HAVE THE FOLLOWING CALIPER AND SIX INCH ABOUT GRADE:
5 GALLONS. .5 INCH TO .75 INCH
15 GAL. .75 INCH TO 1.5 IN.
24 IN. BOX 1.5 INCH TO 2.5 IN.

WARRANTY PERIOD, MAINTENANCE PERIOD:
LANDSCAPE CONTRACTOR SHALL WARRANT PLANTING AND ALL OF ITS COMPONENTS FOR 12 MONTHS AFTER FINAL ACCEPTANCE OF PROJECT. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS AND LABOR ASSOCIATED WITH THE GUARANTEE, INCLUDING BUT NOT LIMITED TO THE LOSS OF THE PLANT MATERIAL OR DAMAGED STRUCTURES. LANDSCAPE CONTRACTOR SHALL PROVIDE MAINTENANCE OF THE PROJECT FOR 90 DAYS BEGINNING AT SUBSTANTIAL COMPLETION OF THE PROJECT. IF SUBSTANTIAL COMPLETION PUNCH LIST ITEMS HAVE NOT BEEN CORRECTED WITHIN 10 WORKING DAYS OF THE SUBSTANTIAL COMPLETION REVIEW, THE BEGINNING OF THE MAINTENANCE SHALL BE EXTENDED TO BEGIN AT THE COMPLETION OF THOSE PUNCH LIST ITEMS.

PLANT ALLOWANCE:
THE LANDSCAPE CONTRACTOR IS REQUIRED TO PROVIDE THE OWNER WITH COMPLETE PROJECT. HE/SHE SHALL INSTALLED ANY AND ALL PLANT MATERIAL AS SHOWN ON THE DRAWINGS AND LEGENDS. SHOULD A DISCREPANCY OCCUR BETWEEN THE PLANS, NOTES OR LEGENDS, THE ONE THAT REQUIRES A GREATER NUMBER OF PLANTS SHALL PREVAIL. THE LANDSCAPE CONTRACTOR SHALL MAKE ALL NEEDED CHANGES AS DIRECTED BY THE ARCHITECT AND PROVIDE THE OWNER WITH A COMPLETE PROJECT AT NO ADDITIONAL COST TO THE OWNER.

MULCH:
THE LANDSCAPE CONTRACTOR SHALL INSTALL 2 INCH OF WOOD CHIPS OR BARK ON ALL NON TURF PLANTING AREAS.





LEGEND:

TREE LEGEND:
DESIDUOUS TREES

PYR-CAL
Pyrus Calleryana (Arbitocat,Capitol) 11' Dia. 15 Gal.

LAG-IND
Lagerstroemia Indica (Crape Myrtle, Red) (15' Dia.) 15 Gal. 15' Dia. Above Ground 72" Dia X 42" GFRC Planter

KOE-BIN
Koelreuteria Paniculata - (Golden Rain Tree) 30' Dia. 15 Gal.

PIS-CHN
Pistacia Chinensis (Chinese Pistache 40' Dia. 24 Box

QUE-VIR
Quercus Virginis (Southern Live Oak) 50' Dia. 15 Gal.

SCHRUBS/NATIVE PLANTS:
LOW/VERY LOW WATERING

Prickly Pear OPUNTIA 5-gallon plant

YUC-BRE
Yucca brevifolia (Yucca plant - elocata) 5 tal tal transplants

DECORATIVE ROCK:
XERISCAPING

DECORATIVE ROCK: LARGE RIVER ROCK AND OR BOULDERS

DECORATIVE ROCK: SMALL TO MEDIUM SIZE RIVER ROCK

0' 10' 50' 100'

NORTH

REV. 3.1
REV. 3.2

LANDSCAPE PLAN
SCALE: 1" = 30'-0"

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No.	Revision/Issue	Drawn by	Checked by	Date
	P.RELIMS		DRP/JB	06-03-22

DRP Enterprises

Engineer

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

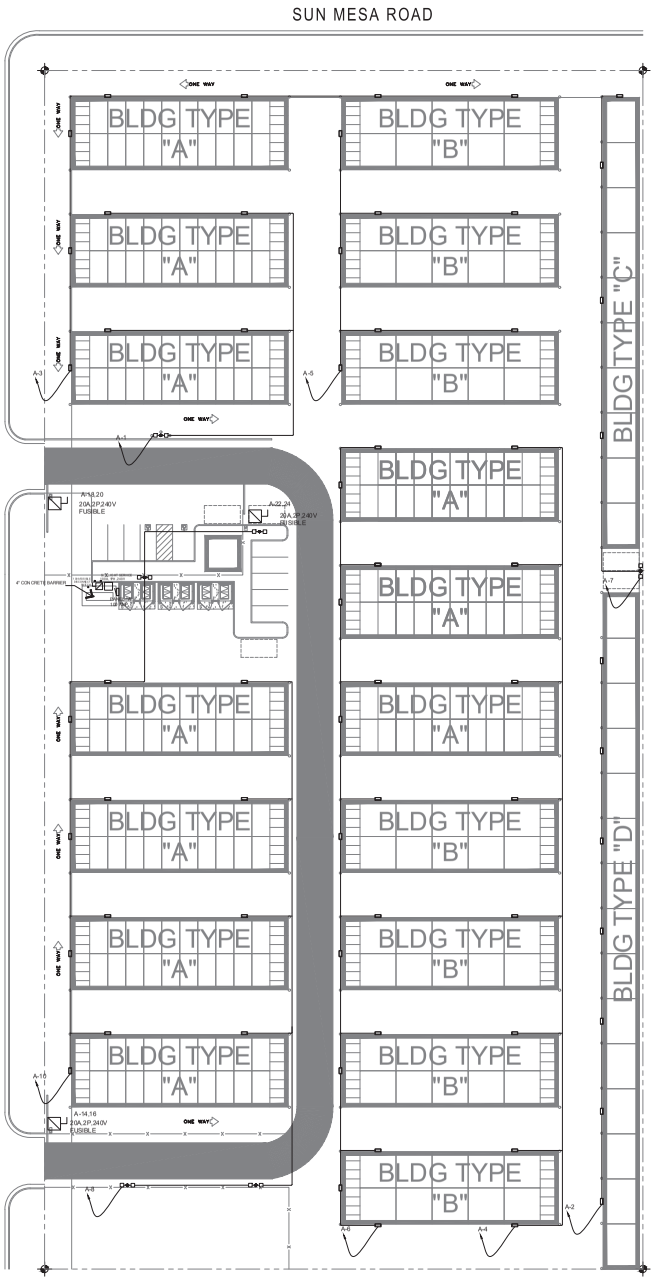
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 30'-0"

Project Number & Sheet Number

T-6.0



SITE LIGHTING PLAN

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ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

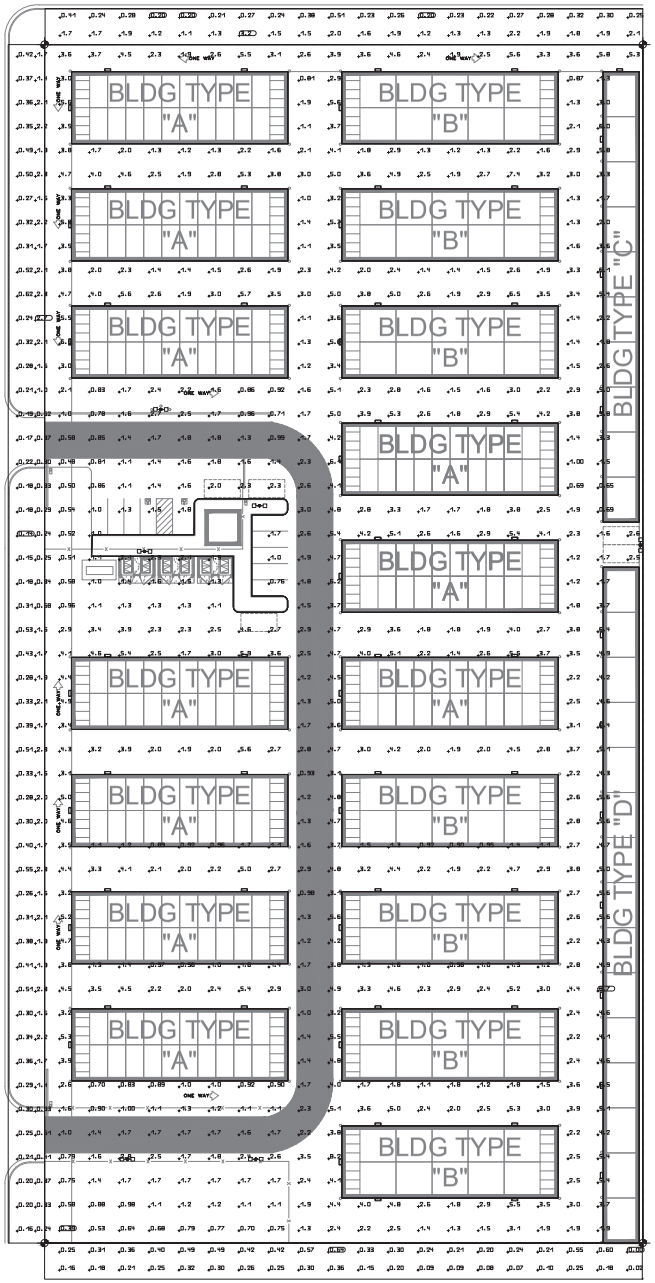
PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1/32" = 1'-0"

Project Number & Sheet Number

ES.1



Luminaire list (Site 1)

Symbol	Index	Manufacturer	Article name	Item number	Fitting	Luminous flux	Light loss factor	Connected load	Quantity
▭	1	Lithonia Lighting	DSXW1 LED WITH (2) 15 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1000mA	DSXW1 LED 20C 1000 40K T2M MVOLT	1x LED	7373 lm	0.80	73.2 W	64
▭▭	2	Lithonia Lighting	DSX1 LED P1 40K T4M MVOLT	DSX1 LED P1 40K T4M MVOLT	1x LED	6816 lm	0.80	54 W	12

#	Name	Parameter	Min	Max	Average	Mean/Min	Max/Min
1	SITE	Perpendicular Illuminance	0.39 fc	8.66 fc	2.70 fc	6.96	22.36
2	20' BEYOND PROPERTY LINE 1	Perpendicular Illuminance	0.14 fc	2.67 fc	0.89 fc	6.19	18.69
3	20' BEYOND PROPERTY LINE 2	Perpendicular Illuminance	0.20 fc	3.19 fc	0.99 fc	4.97	15.99
4	20' BEYOND PROPERTY LINE 3	Perpendicular Illuminance	0.001 fc	0.64 fc	0.28 fc	198.7	460.7

SITE PHOTOMETRIC PLAN

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YUCCA VALLEY, CA

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PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1/32" = 1'-0"

Project Number & Sheet Number

ES.2

240V/120V, 1Ø, 4W

CABLE CALCULATION

FROM	TO	Total Connected Load (VA)	CABLE SIZE	Main Breaker Size	Cable Ampacities Table 310.15(B)(16) ampere "AT"	CONDUCTOR/ PHASE	1P VOLTAGE DROP VD = (K x I x D)/CM					FEEDER V. DROP (%)	Ground Cable (NEC 250.122)(Insulated Copper)	Conduit for feeders (Table C1)
							CM(Circular mils) Chapter 9, Table 8	CABEL LENGTH D	Ampacity (240V, 1Ph) I	ohms-cm/1Ft K	VD			
LGT PANEL	LIGHTING CIRCUIT-1	400	10 AWG	20	35	1	10380	500	2	12.9	1.04	0.43	AWG#12	1"
	LIGHTING CIRCUIT-3	510	10 AWG	20	35	1	10380	600	2	12.9	1.58	0.66	AWG#12	1"
	LIGHTING CIRCUIT-5	510	10 AWG	20	35	1	10380	600	2	12.9	1.58	0.66	AWG#12	1"
	LIGHTING CIRCUIT-7	400	10 AWG	20	35	1	10380	600	2	12.9	1.24	0.52	AWG#12	1"
	LIGHTING CIRCUIT-2	510	10 AWG	20	35	1	10380	620	2	12.9	1.64	0.68	AWG#12	1"
	LIGHTING CIRCUIT-4	590	10 AWG	20	35	1	10380	745	2	12.9	2.28	0.95	AWG#12	1"
	LIGHTING CIRCUIT-6	1,100	10 AWG	20	35	1	10380	825	5	12.9	4.70	1.96	AWG#12	1"
	LIGHTING CIRCUIT-8	510	10 AWG	20	35	1	10380	630	2	12.9	1.66	0.69	AWG#12	1"
	LIGHTING CIRCUIT-10	800	10 AWG	20	35	1	10380	400	3	12.9	1.66	0.69	AWG#12	1"
	ROLLING GATES CIRCUIT-14,16	840	10 AWG	20	35	1	10380	520	4	12.9	1.39	0.58	AWG#12	1"
	ROLLING GATES CIRCUIT-18,20	840	10 AWG	20	35	1	10380	75	4	12.9	0.33	0.14	AWG#12	1"
	ROLLING GATES CIRCUIT-22,24	840	10 AWG	20	35	1	10380	120	4	12.9	0.52	0.22	AWG#12	1"

*	LOAD SUMMARY	CL	DF	CONNECTED LOAD A	CONNECTED LOAD B	DEMAND TOTAL
L	Lighting	6.53	1.25	3.37	2.01	9.66
N	Convenience Receptacles					
H	Heating (Space)		1.25			
C	Cooling		1.00			
A	HVAC		1.00			
F	Process		1.00			
O	Other Continuous		1.25			
K	Kitchen		0.65			
N	Non-continuous		1.00			
M	Motor	4.20	1.00	2.10	2.10	4.20
	Total	9.53		5.47	4.11	13.86

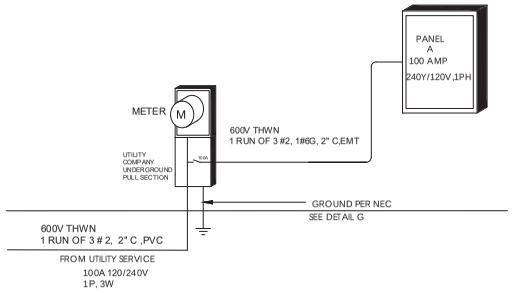
Total Demand Load (KVA)	52.69
Total Demand Current (A)	45.27
Min. Feeder Ampacity (A)	56.58

LTG PANEL	
PANELBOARD DESIGNATION	
SYSTEM VOLTAGE	240/120V, 1Φ, 3W
BUS SIZE	100
SYSTEM TYPE	NORMAL
FEEDER PROT	100A-2P-CB (NUS PLUG)
CONDUCTOR SIZE	2 AWG - #6G (3)
CONDUCTOR PHASE	1
MAINS	100A MCB
BUSH	FULLY RATED
MCB RATING	65%
GROUND FAULT	NO
FEEDER LENGTH (FT)	101
FEEDER V. DROP (%)	1.626
FAULT CURRENT	
KAIC RATING	42
ENCLOSURE	TYPE 1

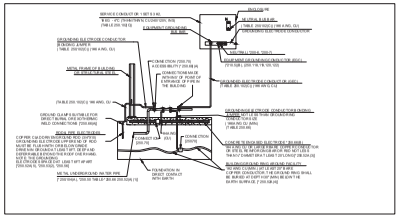
	DESCRIPTION	*	CB	KVA	A	B	KVA	CB	DESCRIPTION	*	
1	LIGHTING CIRCUIT WITH TIME CONTROL	L	20A-1P	0.40	0.91		0.51	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	2
3	LIGHTING CIRCUIT WITH TIME CONTROL	L	20A-1P	0.51		1.10	0.59	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	4
5	LIGHTING CIRCUIT WITH TIME CONTROL	L	20A-1P	0.51	1.61		1.10	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	6
7	LIGHTING CIRCUIT WITH TIME CONTROL	L	20A-1P	0.40		0.91	0.51	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	8
9	SPARE		20A-1P		0.00		0.00	20A-1P	LIGHTING CIRCUIT WITH TIME CONTROL	L	10
11	SPARE		20A-1P					20A-1P	SPARE		12
13	SPARE		20A-1P		0.42		0.42	20A-2P	ROLLING SECURITY GATES	M	14
15	SPARE		20A-1P			0.42	0.42			M	16
17	SPARE		20A-1P		0.42		0.42	20A-2P	ROLLING SECURITY GATES	M	18
19	SPARE		20A-1P			0.42	0.42			M	20
21	SPARE		20A-1P		0.42		0.42	20A-2P	ROLLING SECURITY GATES	M	22
23	SPARE		20A-1P			0.42	0.42			M	24
25	SPARE		20A-1P						SPACE		26
27	SPARE		20A-1P						SPACE		28
29	SPARE		20A-1P						SPACE		30
31	SPARE		20A-1P						SPACE		32
33	SPARE		20A-1P						SPACE		34
35	SPARE		20A-1P						SPACE		36
37	SPARE		20A-1P						SPACE		38
39	SPARE		20A-1P						SPACE		40
41	SPARE		20A-1P						SPACE		42
			(KVA)		4.55	3.27					

Total Connected Load

Updated



UFER GROUND NOTE:
AL L STEEL REBARS MEASURING 1/2" OR MORE IN DIAMETER AND 20 ' OR L ONGER IN LENGTH THAT IS ENCASED IN NOT LESS THAN 2 INCHES OF CONCRETE SHALL BE BONDED TO THE BUILDINGS GROUNDING EL ECTRODE SYSTEM IN ACCORDANCE WITH NEC 250 (ELECTRICAL SUB CODE) SECTION 250.52(A)(3), THIS "UFER" GROUND CAN BE 20 L.F. OF #2 OR #4 COPPER WIRING LAID INSIDE THE FOOTING AND THE SAME WIRE IS L ONG ENOUGH TO REACH TO THE LOCATION OF THE MAIN ELECTRICAL PANEL OF THE HOUSE. UFER GROUND CAN BE (1) L-SHAPED PIECE OF #4 STEEL REBAR CONNECTED TO THE OTHER STEEL REBAR IN THE FOO TING AND STICKING OUT IN SUFFICIENT L ENGTH FOR CONNECTION AT THE LOCATION OF THE MAIN EL ECTRICAL PANEL OF THE HOUSE.



DETAIL "G" OF GROUNDING ELECTRODE SYSTEM (* 250.50)
& GROUNDING ELECTRODES (*250.52) A.S SERVICE

SCALE: NTS

SINGLE LINE DIAGRAM AND PANEL BOARD SCHEDULE

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YUCCA VALLEY, CA

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PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

NTC

Project Number & Sheet Number

ES.3

EVO DIALux

Site 1

Luminaire layout plan

1

EVO DIALux

Site 1

Luminaire layout plan

Manufacturer	Lithonia Lighting
Article No.	DSXF1 LED P1 40K T4M MVOLT
Article name	DSXF1 LED P1 40K T4M MVOLT

Individual luminaires

X	Y	Mounting height	Luminaire
130.398 ft	46.430 ft	20.00 ft	58
114.073 ft	46.586 ft	20.00 ft	59
48.981 ft	46.448 ft	20.00 ft	60
42.765 ft	46.603 ft	20.00 ft	61
330.729 ft	384.281 ft	20.00 ft	62
330.638 ft	390.283 ft	20.00 ft	63
122.462 ft	409.109 ft	20.00 ft	64
116.167 ft	409.265 ft	20.00 ft	65
58.606 ft	383.829 ft	20.00 ft	66
52.394 ft	383.984 ft	20.00 ft	67
67.563 ft	462.586 ft	20.00 ft	68
61.348 ft	462.741 ft	20.00 ft	69

2

EVO DIALux

Site 1

Luminaire layout plan

Manufacturer	Lithonia Lighting
Article No.	DSXW1 LED 20C 1000 40K T2M MVOLT
Article name	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T2M OPTIC, 4000K, @ 1000mA

Individual luminaires

X	Y	Mounting height	Luminaire
34.851 ft	650.139 ft	12.00 ft	1
110.931 ft	650.139 ft	12.00 ft	2
35.022 ft	585.140 ft	12.00 ft	3
110.899 ft	585.140 ft	12.00 ft	4
110.983 ft	520.141 ft	12.00 ft	5
35.057 ft	520.143 ft	12.00 ft	6
35.004 ft	260.144 ft	12.00 ft	7
110.866 ft	260.144 ft	12.00 ft	8
110.826 ft	195.144 ft	12.00 ft	9
34.980 ft	195.144 ft	12.00 ft	10
110.917 ft	130.145 ft	12.00 ft	11
34.977 ft	130.145 ft	12.00 ft	12
260.864 ft	65.146 ft	12.00 ft	13

3

EVO DIALux

Site 1

Luminaire layout plan

X	Y	Mounting height	Luminaire
180.039 ft	65.146 ft	12.00 ft	14
260.999 ft	130.145 ft	12.00 ft	15
185.233 ft	130.145 ft	12.00 ft	16
261.201 ft	195.144 ft	12.00 ft	17
185.112 ft	195.144 ft	12.00 ft	18
261.008 ft	260.144 ft	12.00 ft	19
185.268 ft	260.143 ft	12.00 ft	20
260.985 ft	325.143 ft	12.00 ft	21
185.032 ft	325.143 ft	12.00 ft	22
260.848 ft	390.127 ft	12.00 ft	23
180.131 ft	390.127 ft	12.00 ft	24
260.973 ft	455.131 ft	12.00 ft	25
185.034 ft	455.141 ft	12.00 ft	26
185.109 ft	520.141 ft	12.00 ft	27
260.916 ft	520.141 ft	12.00 ft	28
260.903 ft	585.140 ft	12.00 ft	29
185.077 ft	585.140 ft	12.00 ft	30
260.762 ft	650.139 ft	12.00 ft	31
184.839 ft	650.123 ft	12.00 ft	32
164.873 ft	630.040 ft	12.00 ft	33
164.873 ft	565.030 ft	12.00 ft	34
164.873 ft	500.141 ft	12.00 ft	35
164.873 ft	435.018 ft	12.00 ft	36
164.873 ft	370.042 ft	12.00 ft	37

4

EVO DIALux

Site 1

Luminaire layout plan

X	Y	Mounting height	Luminaire
164.873 ft	304.947 ft	12.00 ft	38
164.873 ft	240.079 ft	12.00 ft	39
164.873 ft	175.120 ft	12.00 ft	40
164.833 ft	110.100 ft	12.00 ft	41
164.871 ft	45.019 ft	12.00 ft	42
309.868 ft	37.073 ft	12.00 ft	43
309.868 ft	87.373 ft	12.00 ft	44
309.868 ft	137.659 ft	12.00 ft	45
309.868 ft	187.519 ft	12.00 ft	46
309.868 ft	237.720 ft	12.00 ft	47
309.868 ft	287.483 ft	12.00 ft	48
309.868 ft	337.385 ft	12.00 ft	49
309.828 ft	462.522 ft	12.00 ft	50
309.828 ft	537.420 ft	12.00 ft	51
309.828 ft	612.617 ft	12.00 ft	52
14.875 ft	630.109 ft	12.00 ft	53
14.835 ft	565.067 ft	12.00 ft	54
14.875 ft	500.050 ft	12.00 ft	55
185.037 ft	24.922 ft	12.00 ft	56
260.864 ft	24.922 ft	12.00 ft	57
14.875 ft	304.823 ft	12.00 ft	70
14.875 ft	240.114 ft	12.00 ft	71
14.875 ft	175.075 ft	12.00 ft	72
14.875 ft	109.949 ft	12.00 ft	73

5

EVO DIALux

Site 1

Luminaire layout plan

X	Y	Mounting height	Luminaire
110.846 ft	325.113 ft	12.00 ft	74
34.962 ft	325.127 ft	12.00 ft	75
319.686 ft	650.135 ft	12.00 ft	76

6

PHOTOMETRIC DATA

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Project Owner

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SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

NTC

Project Number & Sheet Number

ES.4

PRELIMINARY GRADING PLAN

SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67

LEGAL DESCRIPTION:

TR 8749, MB 120/50-64 SEC. 13, T1N, R5E., S.B.B.&M.
APN: 0597-111-67

BASIS OF BEARING :

THE SOUTHWEST 1/4 OF SECTION 13 PER TRACT 8749, MB 120/50-64 SAID BEARING BEING N00°00'08"E

BENCHMARK :

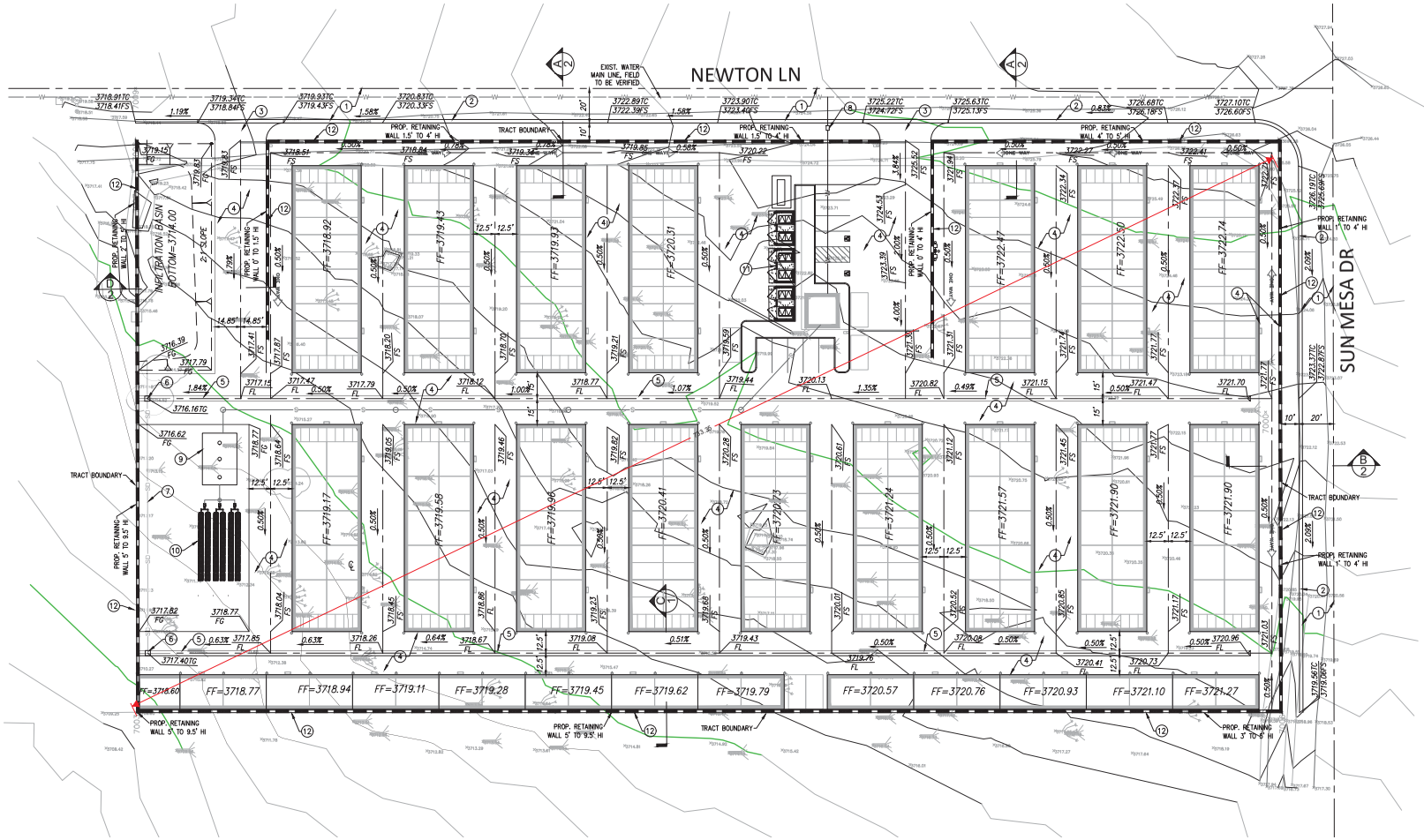
USGS BM 705 24
ELEVATION = 3718.55 FEET, NAVD 88

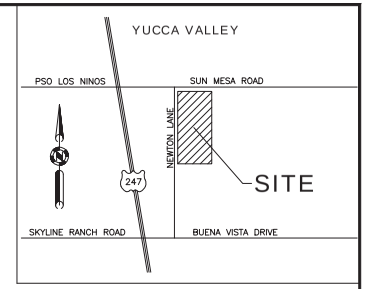
OWNER/DEVELOPER

ROB BILLINGS
5024 WALLABY STREET
YUCCA VALLEY CA 92284
760-686-4171
BILLINGSTRANSFER@YAHOO.COM

TOPOGRAPHY:

PREPARED BY:
LSAP CONSULTANTS LLC.
ADDRESS: 14997 MCGARGER RD
DESERT HOT SPRINGS , CA 92240
(760) 288-2232
SURVEY@LSAPCONSULTANTS.COM
DATE OF SURVEY JAN 2022





VICINITY MAP
NTS

LEGEND:

	CENTERLINE	EP	EDGE OF PAVEMENT
	PROPERTY LINE	FF	FINISHED FLOOR
W	WATER LINE	FG	FINISHED GROUND
S	SEWER LINE	FL	FLOW LINE
ONE	ELECTRIC LINE	FS	FINISHED SURFACE
		GB	GRADE BREAK
GAS GAS	GAS LINE	HP	HIGH POINT
X	EXIST. CHAIN LINK FENCE	INV	INVERT ELEVATION
	EXIST. WOOD FENCE	PAD	PAD ELEVATION
	EXIST. BLOCK WALL	RET.	RETAINING WALL
944	EXIST. CONTOUR LINE	TC	TOP OF CURB
945.0 FS	EXIST. SPOT ELEVATION	TG	TOP OF GRATE
	EXIST. FIRE HYDRANT		
	EXIST. POWER POLE		
	EXIST. SEWER MANHOLE		
	EXIST. STORM DRAIN MANHOLE		
	EXIST. WATER METER		
	EXIST. WATER VALVE		
	EXIST. TREE		

CONSTRUCTION NOTE:

1. PROPOSED AC PAVEMENT
2. PROPOSED 6" CURB AND GUTTER
3. PROPOSED DRIVEWAY APPROACH
4. PROPOSED CONC. PAVEMENT
5. PROPOSED CONC. RIBBON GUTTER
6. PROPOSED 36"X36" CATCH BASIN WITH TRAFFIC RATED STEEL GRATE
7. PROPOSED 18" RCP
8. PROPOSED 1" SERVICE METER
9. PROPOSED SEPTIC TANK
10. PROPOSED LEACH FIELD
11. TRASH ENCLOSURE
12. PROPOSED RETAINING WALL

EARTHWORK VOLUMES:

TOTAL CUT = 4970 CY
TOTAL FILL = 4485 CY

** SEE EARTHWORK EXHIBIT FOR INFORMATION ON CUT-FILL BY LOCATION MAP.*

NORTH

SCALE: 1"=30'

SHEET 1 OF 2

DRP ENTERPRISES LLC
Daniel Patneaude
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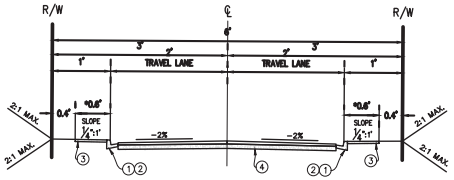
PRELIMINARY GRADING PLAN

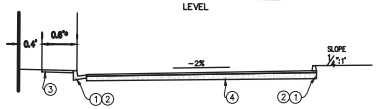
SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67



TYPICAL SECTION

LEVEL



TYPICAL SECTION

TILT

NOTES:

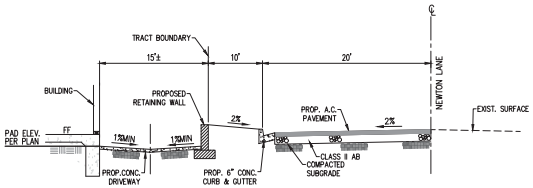
1. CURB AND GUTTER STD. DWG. NO. 200
2. A.C. DIKE PER STD DWG. 202 **
3. SIDEWALK PER STD. DWG. NO. 220
4. PAVEMENT SECTION PER STD. DWG. NO. 240

*SIDEWALK REQUIREMENT PER DEVELOPMENT CODE

**LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

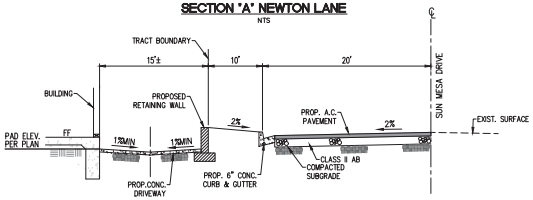
LOCAL STREET SECTION SUN MESA-NEWTON LN

NOT TO SCALE



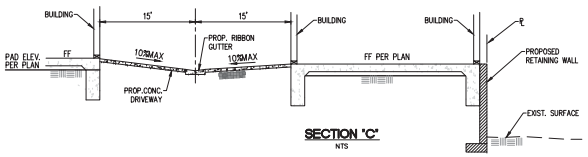
SECTION "A" NEWTON LANE

NTS



SECTION "B" SUN MESA DRIVE

NTS



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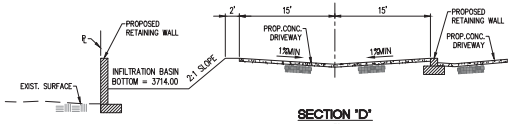

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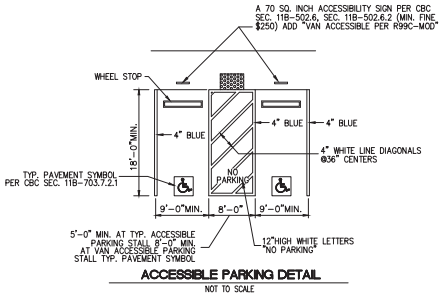

ACCESSIBLE PARKING DETAIL

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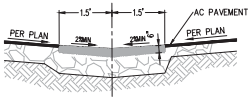

RIBBON GUTTER DETAIL

N.T.S.

SHEET 2 OF 2

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APPENDIX B
AIR QUALITY, ENERGY, AND GREENHOUSE GAS TECHNICAL MEMORANDUM

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: September 16, 2025

TO: Jared Jerome, Associate Planner

FROM: Ron Brugger, Senior Air Quality Specialist
Bianca Martinez, Air Quality Specialist

SUBJECT: Air Quality, Energy, and Greenhouse Gas Technical Memorandum for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California

INTRODUCTION

LSA has prepared this Air Quality, Energy, and Greenhouse Gas Technical Memorandum to evaluate the impacts associated with construction and operation of the proposed Sun Mesa (Billings) Mini Storage Project (project) in Yucca Valley, unincorporated San Bernardino County, California. This analysis follows the guidelines identified by the Mojave Desert Air Quality Management District (MDAQMD) in its California Environmental Quality Act (CEQA) and Federal Air Conformity Guidelines.[1] In keeping with these guidelines, this analysis describes existing air quality, air quality and greenhouse gas (GHG) emissions generated from project-related sources, regional air pollution, and global climate change. In addition, this analysis discusses energy use resulting from implementation of the proposed project and evaluates whether the proposed project would result in the wasteful, inefficient, or unnecessary consumption of energy resources or conflict with any applicable plans for renewable energy and energy efficiency.

PROJECT LOCATION AND DESCRIPTION

The 4.34-acre project site is located on Assessor's Parcel Number 0597-111-067, which is east of State Route 247 and north of Buena Vista Drive in Yucca Valley, unincorporated San Bernardino County, California. The project site is currently undeveloped. Access to the project site is provided by Buena Vista Drive, Sun Mesa Drive, and Newton Lane. Figure 1 and Figure 2 (all figures provided in Attachment A) show the project location and conceptual site plan, respectively.

As originally analyzed, the proposed project would have involved the development of a 20-building, 94,500 total square foot (sf) mini storage facility. The project now involves the development of a 17-building, 89,700 total sf mini storage facility. The reduced size of the proposed project would have

[1] Mojave Desert Air Quality Management District (MDAQMD). 2020. California Environmental Quality Act (CEQA) and Federal Air Conformity Guidelines. Website: www.mdaqmd.ca.gov/home/showpublisheddocument/8510/638126583450270000 (accessed September 2024).

fewer emissions because there would be fewer vehicle trips and fewer buildings consuming energy. Therefore, the existing emissions analysis is considered more conservative than the currently proposed project.

The site would be bounded by a maximum 10-foot-high security fence and would consist of 16 storage buildings of approximately 5,580 sf each, evenly distributed around the site. Two entrances would be located on the west side of the site and would be gated. A 400 sf manager's unit would be located at the northern entry gate. Additionally, outdoor parking stalls would be located on the north and east sides of the proposed manager's unit building. These parking areas would accommodate approximately 10 vehicles. A 9,600 sf retention basin would be located on the southwest corner of the project site. The proposed project would include associated site improvements including new internal roadways and utility improvements. Access to the proposed project site would be between the hours of 6:00 a.m. and 10:00 p.m. 7 days per week.

The Town of Yucca Valley General Plan Land Use Map designates the project site as Commercial (C).[2] The proposed project is consistent with this land use designation. The Town of Yucca Valley Zoning Map identifies the project site as Neighborhood Commercial (C-N), and the proposed project is consistent with this zoning designation.[3] Once operational, the proposed project would generate approximately 137 average daily trips. Additionally, the proposed project would be all electric and would include low water landscape.

As originally analyzed, construction was anticipated to begin in the fall of 2024 and be completed within 24 months. As construction would now commence at a date later than the fall of 2024, but all activities and duration would remain unchanged, the construction analysis conducted for this analysis adequately represents the projected construction. This is because when construction occurs, the equipment will either be the same age or newer than was analyzed. It is expected that newer equipment will either have the same or lower emissions than the equipment included in the current analysis. All other aspects of construction would remain the same. Construction activities would include site preparation, grading, building construction, paving, architectural coating, and trenching. The maximum depth of excavation for construction would be approximately 7 feet below the ground surface, with all soil balanced on the project site. Connections to utilities may require additional excavation up to 15 feet below the ground surface at limited locations on site.

SENSITIVE RECEPTORS IN THE PROJECT AREA

For this analysis, sensitive receptors are considered areas of the population that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include residences, schools, daycare centers, hospitals, parks, and similar uses that are sensitive to air quality. Impacts on sensitive receptors are of particular concern because those receptors are the

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2 Town of Yucca Valley. 2014. Yucca Valley General Plan, Figure LU-1: General Plan Land Use. Website: chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/www.yucca-valley.org/home/showpublisheddocument/2778/637009499961530000 (accessed September 2024).

3 Town of Yucca Valley. 2014. Official Zoning District Map. Website: chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/www.yucca-valley.org/home/showpublisheddocument/6044/638526759731270000 (accessed September 2024).

population most vulnerable to the effects of air pollution. The project site is surrounded primarily by industrial and residential uses. The areas adjacent to the project site include industrial uses to the south and west, residential uses to the southeast, and vacant land to the north and east. The nearest sensitive receptors include a single-family home located southeast of the project site at approximately 200 feet from the project site boundary.

ENVIRONMENTAL SETTING

Air Quality Background

Air quality is primarily a function of local climate, local sources of air pollution, and regional pollution transport. The amount of a given pollutant in the atmosphere is determined by the amount of the pollutant released and the atmosphere's ability to transport and dilute the pollutant. The major determinants of transport and dilution are wind, atmospheric stability, terrain, and, for photochemical pollutants, sunshine.

A region's topographic features have a direct correlation with air pollution flow and therefore are used to determine the boundary of air basins. The project site is in Yucca Valley in unincorporated San Bernardino County and is within the jurisdiction of MDAQMD, which regulates air quality in the Mojave Desert Air Basin (Basin).

The Basin is an assemblage of mountain ranges interspersed with long, broad valleys that often contain dry lakes. Many of the lower mountains that dot the vast terrain rise from 1,000 to 4,000 feet above the valley floor. The Basin encompasses desert portions of Kern, Los Angeles, Riverside, and San Bernardino counties. The Basin is surrounded by national forests to the south and west and desert to the north and east.

Both State and federal governments have established health-based ambient air quality standards for six criteria air pollutants: carbon monoxide (CO), ozone (O_3), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), lead (Pb), and suspended particulate matter (PM). In addition, the State has set standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles. These standards are designed to protect the health and welfare of the populace with a reasonable margin of safety. Two criteria pollutants, O_3 and NO_2, are considered regional pollutants because they (or their precursors) affect air quality on a regional scale. Pollutants such as CO, SO_2, and Pb are considered local pollutants that tend to accumulate in the air locally. PM is considered to be both a regional pollutant and local pollutant.

Attainment Status

The CARB is required to designate areas of the state as attainment, nonattainment, or unclassified for all State standards. An *attainment* designation for an area signifies that pollutant concentrations did not violate the standard for that pollutant in that area. A *nonattainment* designation indicates that a pollutant concentration violated the standard at least once, excluding those occasions when a violation was caused by an exceptional event, as defined in the criteria. An *unclassified* designation signifies that data do not support either an attainment or nonattainment status. The California Clean Air Act (CCAA) divides districts into moderate, serious, and severe air pollution categories, with increasingly stringent control requirements mandated for each category.

Data collected at permanent monitoring stations are used by the United States Environmental Protection Agency (USEPA) to identify regions as "attainment" or "nonattainment" depending on whether the regions meet the requirements stated in the applicable National Ambient Air Quality Standards (NAAQS). Nonattainment areas are imposed with additional restrictions as required by the USEPA. In addition, different classifications of attainment (e.g., marginal, moderate, serious, severe, and extreme) are used to classify each air basin in the State on a pollutant-by-pollutant basis. The classifications are used as a foundation to create air quality management strategies to improve air quality and to comply with the NAAQS. As shown in Table A, the Basin is designated as nonattainment by the federal standards for O_3 and particulate matter less than 10 microns in diameter (PM_{10}) and nonattainment by the State standards for O_3, particulate matter less than 2.5 microns in diameter ($PM_{2.5}$), and PM_{10}.

Table A: Attainment Status of Criteria Pollutants in the Mojave Desert Air Basin

Pollutant	State	Federal
O_3	Nonattainment	Nonattainment[1]
PM_{10}	Nonattainment	Nonattainment[2]
$PM_{2.5}$	Nonattainment[1]	Attainment/Unclassified
CO	Attainment	Attainment/Unclassified
NO_2	Attainment	Attainment/Unclassified
SO_2	Attainment	Attainment/Unclassified
Lead[1]	Attainment	Attainment/Unclassified
All Others	Attainment/Unclassified	N/A

Source: Mojave Desert Air Quality Management District Attainment Status (n.d.). Website: https://www.mdaqmd.ca.gov/home/showpublisheddocument/1267/636337468837000000 (accessed September 2024)

[1] Only the southwest corner of the desert portion of San Bernardino County is Nonattainment.

[2] Only the San Bernardino County portion is Nonattainment.

CO = carbon monoxide
N/A = not applicable
NO_2 = nitrogen dioxide
O_3 = ozone
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
SO_2 = sulfur dioxide

Air Quality Monitoring Results

Air quality monitoring stations are located throughout the nation and are maintained by the local air districts and State air quality regulating agencies. The SCAQMD, together with the CARB, maintains ambient air quality monitoring stations in the Basin. The air quality monitoring stations closest to the project sites are located at the Joshua Tree National Monument, 24302 4th Street in San Bernardino, 500 North Dearborn in Redlands, and 14360 Arrow Boulevard in Fontana.

Pollutant monitoring results for years 2022 to 2024 at the Joshua Tree National Monument, San Bernardino, Redlands, and Fontana ambient air quality monitoring stations, shown in Table B, indicate that air quality in the area has generally been moderate. As indicated in the monitoring results, the federal and State PM_{10} standard had no exceedances in the 3-year period. The State PM_{10} standard had 3 exceedances in 2024 only. The $PM_{2.5}$ federal standard had 2 exceedances in 2022, 1 in 2023, and 4 in 2024. The 1-hour ozone State standard was exceeded 2 times in 2022, 1

time in 2023, and 3 times in 2024. The 8-hour ozone State standard was exceeded 39 times in 2022, 29 times in 2023, and 35 times in 2024. The 8-hour ozone federal standard was exceeded 37 times in 2022, 24 times in 2023, and 32 times in 2024. In addition, the CO, NO_2, and SO_2 standards were not exceeded in this area during the 3-year period.

Table B: Ambient Air Quality at the Nearby Monitoring Stations

Pollutant	Standard	2022	2023	2024
Carbon Monoxide (CO)[1]				
Maximum 1-hour concentration (ppm)		1.7	1.6	3.8
Number of days exceeded:	State: > 20 ppm	0	0	0
	Federal: > 35 ppm	0	0	0
Maximum 8-hour concentration (ppm)		1.4	1.2	2.9
Number of days exceeded:	State: > 9 ppm	0	0	0
	Federal: > 9 ppm	0	0	0
Ozone (O_3)[2]				
Maximum 1-hour concentration (ppm)		0.099	0.096	0.096
Number of days exceeded:	State: > 0.09 ppm	2	1	3
Maximum 8-hour concentration (ppm)		0.084	0.084	0.086
Number of days exceeded:	State: > 0.07 ppm	39	29	35
	Federal: > 0.07 ppm	37	24	32
Coarse Particulates (PM_{10})[3]				
Maximum 24-hour concentration (µg/m³)		47.7	46.7	65.9
Number of days exceeded:	State: > 50 µg/m³	0	0	3
	Federal: > 150 µg/m³	0	0	0
Annual arithmetic average concentration (µg/m³)		21.1	22	24
Exceeded for the year:	State: > 20 µg/m³	Yes	Yes	Yes
	Federal: > 50 µg/m³	No	No	No
Fine Particulates ($PM_{2.5}$)[1]				
Maximum 24-hour concentration (µg/m³)		40.1	52.9	66.7
Number of days exceeded:	Federal: > 35 µg/m³	2	1	4
Annual arithmetic average concentration (µg/m³)		11.2	10.5	13.3
Exceeded for the year:	State: > 12 µg/m³	No	No	Yes
	Federal: > 15 µg/m³	No	No	No
Nitrogen Dioxide (NO_2)[1]				
Maximum 1-hour concentration (ppm)		0.052	0.056	0.059
Number of days exceeded:	State: > 0.250 ppm	0	0	0
Annual arithmetic average concentration (ppm)		0.015	0.013	0.015
Exceeded for the year:	Federal: > 0.053 ppm	No	No	No
Sulfur Dioxide (SO_2)[4]				
Maximum 1-hour concentration (ppm)		0.0027	0.0033	0.0056
Number of days exceeded:	State: > 0.25 ppm	0	0	0
Maximum 24-hour concentration (ppm)		0.0009	0.0007	0.001
Number of days exceeded:	State: > 0.04 ppm	0	0	0
	Federal: > 0.14 ppm	0	0	0
Annual arithmetic average concentration (ppm)		0.00046	0.00022	0.00016
Exceeded for the year:	Federal: > 0.030 ppm	No	No	No

Sources: CARB (2025) and USEPA (2025).

[1] Data was taken from the 24302 4th Street, San Bernardino station.

[2] Data was taken from the Joshua Tree National Monument station.

[3] Data was taken from the 500 North Dearborn, Redlands station.

[4] Data was taken from 14360 Arrow Boulevard, Fontana station.

µg/m³ = micrograms per cubic meter

CARB = California Air Resources Board

ND = No data. There were insufficient (or no) data to determine the value.

ppm = parts per million

USEPA = United States Environmental Protection Agency

Energy Background

Electricity

Electricity is a man-made resource. The production of electricity requires the consumption or conversion of energy resources (including water, wind, oil, gas, coal, solar, geothermal, and nuclear resources) into energy. Electricity is used for a variety of purposes (e.g., lighting, heating, cooling, and refrigeration, and for operating appliances, computers, electronics, machinery, and public transportation systems).

According to the most recent data available, in 2023, California's electricity was generated primarily by natural gas (43.7 percent), solar (19.2 percent), large hydroelectric (12.6 percent), nuclear (8.2 percent), wind (6.5 percent), coal (<1.0 percent), and other miscellaneous sources. Total electric generation in California in 2023 was 281,140 gigawatt-hours (GWh).[4]

The project site is within the service territory of Southern California Edison (SCE). SCE provides electricity to more than 15 million people in a 50,000-square-mile (sq mi) area of Central, Coastal, and Southern California.[5] According to the California Energy Commission (CEC), total electricity consumption in the SCE service area in 2022 was 85,870 GWh (31,604 GWh for the residential sector and 54,266 GWh for the non-residential sector). Total electricity consumption in San Bernardino County in 2022 was 16,629.6 GWh (16,629,614,195 kilowatt-hours [kWh]).[6]

Natural Gas

Natural gas is a nonrenewable fossil fuel. Fossil fuels are formed when layers of decomposing plant and animal matter are exposed to intense heat and pressure under the surface of the Earth over millions of years. Natural gas is a combustible mixture of hydrocarbon compounds (primarily methane) that is used as a fuel source. Natural gas is found in naturally occurring reservoirs in deep underground rock formations. Natural gas is used for a variety of uses (e.g., heating buildings, generating electricity, and powering appliances such as stoves, washing machines and dryers, gas fireplaces, and gas grills).

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4 California Energy Commission (CEC). 2023. *2023 Total System Electric Generation*. Website: www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2023-total-system-electric-generation (accessed July 2025).

5 Southern California Edison (SCE). 2020. About Us. Website: www.sce.com/about-us/who-we-are (accessed September 2024).

6 CEC. 2020. Electricity Consumption by County and Entity. Websites: www.ecdms.energy.ca.gov/elecbycounty.aspx and www.ecdms.energy.ca.gov/elecbyutil.aspx (accessed September 2024).

Natural gas consumed in California is used for electricity generation (45 percent), residential uses (21 percent), industrial uses (25 percent), and commercial uses (9 percent). California continues to depend on out-of-state imports for nearly 90 percent of its natural gas supply.[7]

The Southern California Gas Company (SoCalGas) is the natural gas service provider for the project site. SoCalGas provides natural gas to approximately 21.8 million people in a 24,000 sq mi service area throughout Central and Southern California, from Visalia to the Mexican border.[8] According to the CEC, total natural gas consumption in the SoCalGas service area in 2022 was 5,026 million therms (2,230 million therms for the residential sector). Total natural gas consumption in San Bernardino County in 2022 was 562 million therms (562,123,065 therms).[9]

Fuel

Petroleum is also a nonrenewable fossil fuel. Petroleum is a thick, flammable, yellow-to-black mixture of gaseous, liquid, and solid hydrocarbons that occurs naturally beneath the Earth's surface. Petroleum is primarily recovered by oil drilling. It is refined into a large number of consumer products, primarily fuel oil, gasoline, and diesel.

The average fuel economy for light-duty vehicles (autos, pickups, vans, and sport utility vehicles [SUVs]) in the United States has steadily increased from about 14.9 miles per gallon (mpg) in 1980 to 22.9 mpg in 2021.[10] Federal fuel economy standards have changed substantially since the Energy Independence and Security Act was passed in 2007. This act, which originally mandated a national fuel economy standard of 35 mpg by year 2020[11], applies to cars and light trucks of Model Years 2011 through 2020. In March 2020, the USEPA and National Highway Traffic Safety Administration (NHTSA) finalized the Corporate Average Fuel Economy standards for Model Years 2024–2026 Passenger Cars and Light Trucks, further detailed below.

Gasoline is the most-used transportation fuel in California, with 97 percent of all gasoline being consumed by light-duty cars, pickup trucks, and SUVs. According to the most recent data available, in 2022, total gasoline consumption in California was 316,425 thousand barrels or 1,597.6 trillion British Thermal Units (BTU).[12] Of the total gasoline consumption, 299,304 thousand barrels or

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7 CEC. 2021. Supply and Demand of Natural Gas in California. Website: www.energy.ca.gov/data-reports/energy-almanac/californias-natural-gas-market/supply-and-demand-natural-gas-california (accessed September 2024).

8 Southern California Gas Company (SoCalGas). 2020. About SoCalGas. Website: www.socalgas.com/about-us (accessed September 2024).

9 CEC. 2020. Gas Consumption by County and Entity. Website: www.ecdms.energy.ca.gov/gasbyutil.aspx (accessed September 2024).

10 United States Department of Transportation (USDOT). "Table 4-23: Average Fuel Efficiency of U.S. Light Duty Vehicles." Website: www.bts.gov/content/average-fuel-efficiency-us-light-duty-vehicles (accessed September 2024).

11 United States Department of Energy. 2007. "Energy Independence & Security Act of 2007." Website: www.afdc.energy.gov/laws/eisa (accessed September 2024).

12 United States Energy Information Administration (EIA). 2022. California State Profile and Energy Estimates, Data. Website: www.eia.gov/state/seds/data.php?incfile=/state/seds/sep_fuel/html/fuel_mg.html&sid=CA (accessed September 2024).

1,511.2 trillion BTU were consumed for transportation.[13] Based on fuel consumption data obtained from the California Air Resources Board's California Emissions Factor Model, Version 2021 (EMFAC2021), approximately 893.9 million gallons of gasoline and approximately 327.1 million gallons of diesel will be consumed from vehicle trips in San Bernardino County in 2024.

Greenhouse Gas Background

GHGs are present in the atmosphere naturally, are released by natural sources, or form from secondary reactions taking place in the atmosphere. Over the last 200 years, humans have caused substantial quantities of GHGs to be released into the atmosphere. These extra emissions are increasing GHG concentrations in the atmosphere and enhancing the natural greenhouse effect, which is believed to be causing global warming. Although man-made GHGs include naturally occurring GHGs such as carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O), some gases such as hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), nitrogen trifluoride (NF_3), and sulfur hexafluoride (SF_6) are completely new to the atmosphere.

Certain gases, such as water vapor, are short-lived in the atmosphere. Others remain in the atmosphere for significant periods of time, contributing to climate change in the long term. Water vapor is excluded from the list of GHGs above because it is short-lived in the atmosphere and its atmospheric concentrations are largely determined by natural processes, such as oceanic evaporation.

These gases vary considerably in terms of global warming potential (GWP), which is a concept developed to compare the ability of each GHG to trap heat in the atmosphere relative to another gas. The GWP is based on several factors, including the relative effectiveness of a gas in absorbing infrared radiation and the length of time that the gas remains in the atmosphere ("atmospheric lifetime"). The GWP of each gas is measured relative to CO_2, the most abundant GHG; the definition of GWP for a particular GHG is the ratio of heat trapped by one unit mass of the GHG to the ratio of heat trapped by one unit mass of CO_2 over a specified time period. GHG emissions are typically measured in terms of pounds or tons of CO_2 equivalents (CO_2e).

REGULATORY SETTING

This section provides regulatory background information for air quality and GHGs.

Air Quality

Applicable federal, State, regional, and local air quality regulations are discussed below.

Federal Regulations

The 1970 federal Clean Air Act (CAA) authorized the establishment of national health-based air quality standards and set deadlines for their attainment. The CAA Amendments of 1990 changed deadlines for attaining national standards as well as the remedial actions required for areas of the nation that exceed the standards. Under the CAA, State and local agencies in areas that exceed the

[13] Ibid.

national standards are required to develop State Implementation Plans to demonstrate how they will achieve the national standards by specified dates.

State Regulations

In 1988, the California Clean Air Act (CCAA) required that all air districts in the State endeavor to achieve and maintain California Ambient Air Quality Standards (CAAQS) for CO, O_3, SO_2, and NO_2 by the earliest practical date. The CCAA provides districts with the authority to regulate indirect sources and mandates that air quality districts focus particular attention on reducing emissions from transportation and areawide emission sources. Each nonattainment district is required to adopt a plan to achieve a 5 percent annual reduction, averaged over consecutive 3-year periods, in districtwide emissions of each nonattainment pollutant or its precursors. A Clean Air Plan shows how a district would reduce emissions to achieve air quality standards. Generally, the State standards for these pollutants are more stringent than the national standards.

The California Air Resources Board (CARB) is the State's "clean air agency." CARB's goals are to attain and maintain healthy air quality, protect the public from exposure to toxic air contaminants, and oversee compliance with air pollution rules and regulations.

Regional Regulations

Mojave Desert Air Quality Management District. The MDAQMD is the regional agency responsible for monitoring air quality, as well as planning, implementing, and enforcing programs designed to attain and maintain State and federal ambient air quality standards in the San Bernardino County portion of the Mojave Desert Air Basin. Programs include air quality rules and regulations that regulate stationary sources, area sources, point sources, and certain mobile source emissions. The MDAQMD is also responsible for establishing stationary source permitting requirements and for ensuring that new, modified, or relocated stationary sources do not create net emission increases.

All areas designated as nonattainment under the CCAA are required to prepare plans showing how they will meet the air quality standards. The most recent air quality plans are the PM_{10} Attainment Demonstration and Attainment Plan and the O_3 Attainment Plan.

In addition, emissions that would result from mobile, area, and stationary sources during construction and operation of the project are subject to the rules and regulations of the MDAQMD. The MDAQMD rules applicable to the project may include, but are not limited to, the following:

- **Rule 401 – Visible Emissions:** This rule establishes the limit for visible emissions from stationary sources.

- **Rule 402 – Nuisance:** This rule prohibits the discharge of air contaminants or other material that cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or that endanger the comfort, repose, health, or safety of any such persons or the public, or that cause, or have a natural tendency to cause, injury or damage to business or property.

- **Rule 403.2 – Fugitive Dust Control for the Mojave Desert Planning Area:** This rule ensures that the NAAQS for PM_{10} will not be exceeded due to anthropogenic sources of fugitive dust within the Mojave Desert Planning Area and implements the control measures contained in the Mojave Desert Planning Area Federal PM_{10} Attainment Plan.

- **Rule 442 – Usage of Solvents:** The purpose of this rule is to reduce volatile organic compound (VOC) emissions from VOC-containing materials or equipment that is not subject to limits of any rule found in District Regulation XI – Source Specific Standards.

- **Rule 1113 – Architectural Coatings:** This rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories.

Southern California Association of Governments. The Southern California Association of Governments (SCAG) is a council of governments for Los Angeles, Orange, Riverside, San Bernardino, Imperial, and Ventura counties. It is a regional planning agency and serves as a forum for regional issues relating to transportation, the economy and community development, and the environment. SCAG is the federally designated Metropolitan Planning Organization (MPO) for the majority of the Southern California region and is the largest MPO in the nation. With regard to air quality planning, SCAG prepares the Regional Transportation Plan (RTP) and Regional Transportation Improvement Program (RTIP), which address regional development and growth forecasts and form the basis for the land use and transportation control portions of the Air Quality Management Plan (AQMP) and are utilized in the preparation of the air quality forecasts and consistency analysis included in the AQMP. The RTP, RTIP, and AQMP are based on projections originating within local jurisdictions.

Although SCAG is not an air quality management agency, it is responsible for developing transportation, land use, and energy conservation measures that affect air quality. SCAG's Regional Comprehensive Plan (RCP) provides growth forecasts that are used in the development of air quality-related land use and transportation control strategies by the MDAQMD. The RCP is a framework for decision-making for local governments, assisting them in meeting federal and State mandates for growth management, mobility, and environmental standards, while maintaining consistency with regional goals regarding growth and changes. Policies within the RCP include consideration of air quality, land use, transportation, and economic relationships by all levels of government.

SCAG adopted the 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy (Connect SoCal) on April 4, 2024[14]. Connect SoCal is a long-range visioning plan that balances future mobility and housing needs with economic, environmental, and public health goals. Connect SoCal is an important planning document for the region, allowing project sponsors to qualify for federal

[14] Southern California Association of Governments (SCAG). 2024. *Connect SoCal: The 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments*. Website: scag.ca.gov/sites/main/files/file-attachments/23-2987-connect-socal-2024-final-complete-040424.pdf?1712261565 (accessed September 2024).

funding, and takes into account operations and maintenance costs, to ensure reliability, longevity, and cost effectiveness. The forecasted development pattern, when integrated with the financially constrained transportation investments identified in Connect SoCal, would reach the regional target of reducing GHG emissions from autos and light-duty trucks by 19 percent by 2035 (compared to 2005 levels).

Local Regulations

Yucca Valley General Plan. The Town of Yucca Valley addresses air quality in the Open Space and Conservation Element of its Policy Plan.[15] The Open Space and Conservation Element includes goals and policies that work to improve and maintain air quality for the benefit of the health and vitality of the residents and the local economy. The following policies from the Open Space and Conservation Element are applicable to the proposed project:

- **Policy OSC 10-1:** Participate in the monitoring of all air pollutants of regional concern on a continuous basis.
- **Policy OSC 10-2:** Coordinate air quality planning efforts with other local, regional, and federal agencies.
- **Policy OSC 10-4:** Coordinate land use planning efforts to assure that sensitive receptors are reasonably separated from polluting point sources.
- **Policy OSC 10-5:** Provide consistent and effective code enforcement for construction and grading activities to assure ground disturbances do not contribute to blowing sand and fugitive dust emissions.

Energy

Federal and State agencies regulate energy use and consumption through various means and programs. On the federal level, the United States Department of Transportation (USDOT), the United States Department of Energy, and the USEPA are three federal agencies with substantial influence over energy policies and programs. Generally, federal agencies influence and regulate transportation energy consumption through establishment and enforcement of fuel economy standards for automobiles and light trucks, through funding of energy-related research and development projects, and through funding for transportation infrastructure improvements. On the State level, the California Public Utilities Commission (CPUC) and the CEC are two agencies with authority over different aspects of energy.

The CPUC regulates privately owned electric, natural gas, telecommunications, water, railroad, rail transit, and passenger transportation companies and serves the public interest by protecting consumers and ensuring the provision of safe, reliable utility service and infrastructure at

[15] Town of Yucca Valley. n.d. *2022 General Plan, Open Space and Conservation Element*. Website: www.yucca-valley.org/our-town/departments/community-development/planning/general-plan-update (accessed September 2024).

reasonable rates, with a commitment to environmental enhancement and a healthy California economy.

The CEC is the State's primary energy policy and planning agency. The CEC forecasts future energy needs, promotes energy efficiency, supports energy research, develops renewable energy resources, and plans for/directs State response to energy emergencies. The applicable federal, State, regional, and local regulatory framework is discussed below.

Federal Regulations

Energy Policy Act of 2005. The Energy Policy Act of 2005 seeks to reduce reliance on nonrenewable energy resources and provide incentives to reduce current demand on these resources. For example, under this Act, consumers and businesses can obtain federal tax credits for purchasing fuel-efficient appliances and products (including hybrid vehicles), building energy-efficient buildings, and improving the energy efficiency of commercial buildings. Additionally, tax credits are available for the installation of qualified fuel cells, stationary microturbine power plants, and solar power equipment.

Corporate Average Fuel Economy Standards. On March 31, 2022, the NHTSA finalized the Corporate Average Fuel Economy (CAFE) standards for Model Years 2024–2026 Passenger Cars and Light Trucks. The amended CAFE standards would require an industry wide fleet average of approximately 49 mpg for passenger cars and light trucks in model year 2026, by increasing fuel efficiency by 8 percent annually for model years 2024–2025, and 10 percent annually for model year 2026. The final standards are estimated to save about 234 billion gallons of gasoline between model years 2030 to 2050.

State Regulations

Assembly Bill 1575, Warren-Alquist Act. In 1975, largely in response to the oil crisis of the 1970s, the State Legislature adopted Assembly Bill (AB) 1575 (also known as the Warren-Alquist Act), which created the CEC. The statutory mission of the CEC is to forecast future energy needs; license power plants of 50 megawatts or larger; develop energy technologies and renewable energy resources; plan for and direct State responses to energy emergencies; and, perhaps most importantly, promote energy efficiency through the adoption and enforcement of appliance and building energy efficiency standards. AB 1575 also amended Public Resources Code Section 21100(b)(3) and *State CEQA Guidelines* Section 15126.4 to require Environmental Impact Reports (EIRs) to include, where relevant, mitigation measures proposed to minimize the wasteful, inefficient, and unnecessary consumption of energy caused by a project. Thereafter, the State Resources Agency created Appendix F to the *State CEQA Guidelines*. Appendix F assists EIR preparers in determining whether a project will result in the inefficient, wasteful, and unnecessary consumption of energy. Appendix F of the *State CEQA Guidelines* also states that the goal of conserving energy implies the wise and efficient use of energy and the means of achieving this goal, including (1) decreasing overall per capita energy consumption; (2) decreasing reliance on fossil fuels such as coal, natural gas, and oil; and (3) increasing reliance on renewable energy sources.

Senate Bill 1389, Energy: Planning and Forecasting. In 2002, the State Legislature passed Senate Bill (SB) 1389, which required the CEC to develop an integrated energy plan every 2 years for electricity,

natural gas, and transportation fuels for the California Energy Policy Report. The plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies a number of strategies, including assistance to public agencies and fleet operators in implementing incentive programs for zero emission vehicles and their infrastructure needs, and encouragement of urban designs that reduce vehicle miles traveled and accommodate pedestrian and bicycle access.

In compliance with the requirements of SB 1389, the CEC adopts an Integrated Energy Policy Report every 2 years and an update every other year. The most recently adopted report includes the *2023 Integrated Energy Policy Report.*[16] The *Integrated Energy Policy Report* covers a broad range of topics, including decarbonizing buildings, integrating renewables, energy efficiency, energy equity, integrating renewable energy, updates on Southern California electricity reliability, climate adaptation activities for the energy sector, natural gas assessment, transportation energy demand forecast, and the California Energy Demand Forecast. The *Integrated Energy Policy Report* provides the results of the CEC's assessments of a variety of energy issues facing California. Many of these issues will require action if the State is to meet its climate, energy, air quality, and other environmental goals while maintaining energy reliability and controlling costs.

Renewable Portfolio Standard. SB 1078 established the California Renewable Portfolio Standards program in 2002. SB 1078 initially required that 20 percent of electricity retail sales be served by renewable resources by 2017; however, this standard has become more stringent over time. In 2006, SB 107 accelerated the standard by requiring that the 20 percent mandate be met by 2010. In April 2011, SB 2 required that 33 percent of electricity retail sales be served by renewable resources by 2020. In 2015, SB 350 established tiered increases to the Renewable Portfolio Standards of 40 percent by 2024, 45 percent by 2027, and 50 percent by 2030. In 2018, SB 100 increased the requirement to 60 percent by 2030 and required that all the State's electricity come from carbon-free resources by 2045. SB 100 took effect on January 1, 2019.[17]

California Energy Code. Energy consumption by new buildings in California is regulated by the Building Energy Efficiency Standards in Part 6 of Title 24 of the California Code of Regulations (CCR), known as the Energy Code. The CEC first adopted the Building Energy Efficiency Standards for Residential and Non-residential Buildings in 1978 in response to a legislative mandate to reduce energy consumption in the State. The Energy Code is updated every 3 years, with the most recent update consisting of the 2022 Energy Code that became effective January 1, 2023. Mid-cycle supplements to the 2022 Code will become effective on July 1, 2024. The efficiency standards apply to both new construction and rehabilitation of both residential and nonresidential buildings, and regulate energy consumed for heating, cooling, ventilation, water heating, and lighting. The building efficiency standards are enforced through the local building permit process. Local government

16 CEC. 2023. *2023 Integrated Energy Policy Report*. California Energy Commission. Docket Number: 23-IEPR-01.

17 California Public Utilities Commission (CPUC). 2019. Renewables Portfolio Standard Program. Website: cpuc.ca.gov/rps (accessed September 2024).

agencies may adopt and enforce energy standards for new buildings, provided these standards meet or exceed those provided in the Energy Code.

California Green Building Standards Code (CALGreen Code). In 2010, the California Building Standards Commission adopted Part 11 of the Title 24 Building Energy Efficiency Standards, referred to as the CALGreen Code. The CALGreen Code took effect on January 1, 2011. The CALGreen Code is updated on a regular basis, with the most recent update consisting of the 2022 CALGreen Code standards that became effective January 1, 2023. The CALGreen Code established mandatory measures for residential and nonresidential building construction and encouraged sustainable construction practices in the following five categories: (1) planning and design, (2) energy efficiency, (3) water efficiency and conservation, (4) material conservation and resource efficiency, and (5) indoor environmental quality. Although the CALGreen Code was adopted as part of the State's efforts to reduce GHG emissions, the CALGreen Code standards have co-benefits of reducing energy consumption from residential and nonresidential buildings subject to the standard.

California Energy Efficiency Strategic Plan. On September 18, 2008, the CPUC adopted California's first Long-Term Energy Efficiency Strategic Plan, presenting a roadmap for energy efficiency in California. The Strategic Plan was updated in 2011. The Plan articulates a long-term vision and goals for each economic sector and identifies specific near-term, mid-term, and long-term strategies to assist in achieving those goals. The Plan also reiterates the following four specific programmatic goals known as the "Big Bold Energy Efficiency Strategies" that were established by the CPUC in Decisions D.07-10-032 and D.07-12-051:

- All new residential construction will be zero net energy (ZNE) by 2020.
- All new commercial construction will be ZNE by 2030.
- 50 percent of commercial buildings will be retrofitted to ZNE by 2030.
- 50 percent of new major renovations of State buildings will be ZNE by 2025.

Regional Regulations

There are no regional regulations that apply to the proposed project.

Local Regulations

Yucca Valley General Plan. The Town of Yucca Valley's General Plan[18] Open Space and Conservation Element includes objectives and policies that work to reduce the consumption of nonrenewable energy resources by requiring and encouraging conservation measures and the use of alternative energy sources. The following policies related to energy are applicable to the proposed project:**Policy OCS 9-1:** Develop, promote, and implement long-term energy efficiency and demand management policies and standards for Town facilities, vehicles, and new development.

[18] Town of Yucca Valley. n.d. *2022 General Plan, Open Space and Conservation Element*. Website: www.yucca-valley.org/our-town/departments/community-development/planning/general-plan-update (accessed September 2024).

- **Policy OCS 9-3:** Encourage the use of clean and/or renewable alternative energy sources for transportation, heating, cooling, and construction.

- **Policy OCS 9-5:** Ensure that any planned construction, demolition, addition, alteration, repair, remodel, landscaping, or grading projects divert all reusable, salvageable, and recyclable debris from landfill disposal.

- **Policy OCS 9-9:** Promote building design and construction that integrates alternative energy systems, including but not limited to solar, thermal, photovoltaics, and other clean energy systems.

Greenhouse Gas Emissions

This section describes regulations related to global climate change at the federal, State, and local levels.

Federal Regulations

The United States has historically had a voluntary approach to reducing GHG emissions. However, on April 2, 2007, the United States Supreme Court ruled that the USEPA has the authority to regulate CO_2 emissions under the CAA.

Although there currently are no adopted federal regulations for the control or reduction of GHG emissions, the USEPA commenced several actions in 2009 to implement a regulatory approach to global climate change, including the 2009 USEPA final rule for mandatory reporting of GHGs from large GHG emission sources in the United States. Additionally, the USEPA Administrator signed an endangerment finding action in 2009 under the CAA, finding that seven GHGs (CO_2, CH_4, N_2O, HFCs, NF_3, PFCs, and SF_6) constitute a threat to public health and welfare, and that the combined emissions from motor vehicles cause and contribute to global climate change, leading to national GHG emission standards.

State Regulations

CARB is the lead agency for implementing climate change regulations in the State. Since its formation, CARB has worked with the public, the business sector, and local governments to find solutions to address climate change. In addition to the Energy Code and the Green Building Code described above, Key efforts by the State are described below.

Assembly Bill 32 (2006), California Global Warming Solutions Act. California's major initiative for reducing GHG emissions is AB 32, passed by the State Legislature on August 31, 2006. This effort set a target to reduce GHG emissions to 1990 levels by 2020. CARB has established the level of GHG emissions in 1990 at 427 million metric tons (MMT) of CO_2e. The emission target of 427 MMT requires the reduction of 169 MMT from the State's projected business-as-usual 2020 emissions of 596 MMT. AB 32 requires CARB to prepare a Scoping Plan that outlines the main State strategies for meeting the 2020 deadline and to reduce GHGs that contribute to global climate change. CARB approved the Scoping Plan on December 11, 2008, which contains the main strategies California will

implement to achieve the reduction goals and includes CARB-recommended GHG reductions for each emissions sector of the State's GHG inventory.

The CARB approved the First Update to the Climate Change Scoping Plan on May 22, 2014. The First Update identifies opportunities to leverage existing and new funds to further drive GHG emission reductions through strategic planning and targeted low carbon investments. The First Update defines CARB climate change priorities until 2020 and sets the groundwork to reach long-term goals set forth in Executive Orders (EO) S-3-05 and B-16-2012. The First Update highlights California's progress toward meeting the "near-term" 2020 GHG emission reduction goals as defined in the initial Scoping Plan. It also evaluates how to align the State's "longer-term" GHG reduction strategies with other State policy priorities for water, waste, natural resources, clean energy, transportation, and land use. CARB released a second update to the Scoping Plan, the 2017 Scoping Plan,[19] to reflect the 2030 target that was set by EO B-30-15 and codified by SB 32.

The 2022 Scoping Plan[20] was approved in December 2022 and assesses progress toward the statutory 2030 target while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan Update focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

The 2022 Scoping Plan focuses on building clean energy production and distribution infrastructure for a carbon-neutral future, including transitioning existing energy production and transmission infrastructure to produce zero-carbon electricity and hydrogen and utilizing biogas resulting from wildfire management or landfill and dairy operations, among other substitutes. The 2022 Scoping Plan states that in almost all sectors, electrification will play an important role. The 2022 Scoping Plan evaluates clean energy and technology options and the transition away from fossil fuels, including adding four times the solar and wind capacity by 2045 and about 1,700 times the amount of current hydrogen supply. As discussed in the 2022 Scoping Plan, EO N-79-20 requires that all new passenger vehicles sold in California be zero-emission by 2035 and that all other fleets transition to zero-emission as fully as possible by 2045, which will reduce the percentage of fossil fuel combustion vehicles.

Senate Bill 375 (2008). Signed into law on October 1, 2008, SB 375 supplements GHG reductions from new vehicle technology and fuel standards with reductions from more efficient land use patterns and improved transportation. Under the law, CARB approved GHG reduction targets in February 2011 for California's 18 federally designated regional planning bodies, known as MPOs. CARB may update the targets every 4 years and must update them every 8 years. MPOs, in turn, must demonstrate how their plans, policies, and transportation investments meet the targets set by CARB through Sustainable Community Strategies (SCSs). The SCSs are included with the Regional Transportation Plan (RTP), a report required by State law. However, if an MPO finds that its SCS will

19 CARB. 2017. *California's 2017 Climate Change Scoping Plan*. November.

20 CARB. 2022. *2022 Scoping Plan Update*. May 10. Website: ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf (accessed September 2024).

not meet the GHG reduction targets, it may prepare an Alternative Planning Strategy. The Alternative Planning Strategy identifies the impediments to achieving the targets.

Executive Order B-30-15 (2015). Governor Jerry Brown signed EO B-30-15 on April 29, 2015, which added the immediate target of:

- GHG emissions reduced to 40 percent below 1990 levels by 2030

All State agencies with jurisdiction over sources of GHG emissions were directed to implement measures to achieve reductions of GHG emissions to meet the 2030 and 2050 targets. CARB was directed to update the AB 32 Scoping Plan to reflect the 2030 target and, therefore, is moving forward with the update process. The mid-term target is critical to help frame the suite of policy measures, regulations, planning efforts, and investments in clean technologies and infrastructure needed to continue reducing emissions.

Senate Bill 350 (2015) Clean Energy and Pollution Reduction Act. SB 350, signed by Governor Jerry Brown on October 7, 2015, updates and enhances AB 32 by introducing the following set of objectives in clean energy, clean air, and pollution reduction for 2030:

- Raise California's renewable portfolio standard from 33 percent to 50 percent
- Increase energy efficiency in buildings by 50 percent by the year 2030

The 50 percent renewable energy standard will be implemented by the California Public Utilities Commission for private utilities and by the California Energy Commission for municipal utilities. Each utility must submit a procurement plan showing it will purchase clean energy to displace other nonrenewable resources. The 50 percent increase in energy efficiency in buildings must be achieved through the use of existing energy efficiency retrofit funding and regulatory tools already available to State energy agencies under existing law. The addition made by this legislation requires State energy agencies to plan for and implement those programs in a manner that achieves the energy efficiency target.

Senate Bill 32, California Global Warming Solutions Act of 2016, and Assembly Bill 197. In summer 2016, the Legislature passed, and the Governor signed, SB 32 and AB 197. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emission reduction target of at least 40 percent below 1990 levels by 2030 contained in Governor Brown's April 2015 EO B-30-15. SB 32 builds on AB 32 and keeps California on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels, consistent with an Intergovernmental Panel on Climate Change analysis of the emission trajectory that would stabilize atmospheric GHG concentrations at 450 ppm CO_2e and reduce the likelihood of catastrophic impacts from climate change.

AB 197, the companion bill to SB 32, provides additional direction to CARB related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 meant to provide easier public access to air emission data that are collected by CARB was posted in December 2016.

Senate Bill 100. On September 10, 2018, Governor Brown signed SB 100, which raises California's renewable portfolio standard requirements to 60 percent by 2030, with interim targets, and 100 percent by 2045. The bill also establishes a State policy that eligible renewable energy resources and zero-carbon resources supply 100 percent of all retail sales of electricity to California end-use customers and 100 percent of electricity procured to serve all State agencies by December 31, 2045. Under the bill, the State cannot increase carbon emissions elsewhere in the western grid or allow resource shuffling to achieve the 100 percent carbon-free electricity target.

Executive Order B-55-18.EO B-55-18, signed September 10, 2018, sets a goal "to achieve carbon neutrality as soon as possible, and no later than 2045, and achieve and maintain net negative emissions thereafter." EO B-55-18 directs CARB to work with relevant State agencies to ensure that future Scoping Plans identify and recommend measures to achieve the carbon neutrality goal. The goal of carbon neutrality by 2045 is in addition to other statewide goals, meaning that, not only should emissions be reduced to 80 percent below 1990 levels by 2050, but that, by no later than 2045, the remaining emissions should be offset by equivalent net removals of CO_2e from the atmosphere, including through sequestration in forests, soils, and other natural landscapes.

Assembly Bill 1279. AB 1279 was signed in September 2022 and codifies the State goals of achieving net carbon neutrality by 2045 and maintaining net negative GHG emissions thereafter. This bill also requires California to reduce statewide GHG emissions by 85 percent compared to 1990 levels by 2045 and directs CARB to work with relevant State agencies to achieve these goals.

Regional Regulations

Mojave Desert Air Quality Management District. The MDAQMD has adopted GHG emissions thresholds in its CEQA Guidelines but has not adopted a comprehensive strategy for reducing GHG emissions. The MDAQMD threshold is 100,000 MT/year CO2e and 548,000 pounds per day.

Southern California Association of Governments. SCAG is a regional council consisting of Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties. In total, the SCAG region encompasses 191 cities and more than 38,000 square miles within Southern California. SCAG is the MPO serving the region under federal law and serves as the Joint Powers Authority, the Regional Transportation Planning Agency, and the Council of Governments under State law. As the Regional Transportation Planning Agency, SCAG prepares long-range transportation plans for the Southern California region, including the Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) and the 2008 Regional Comprehensive Plan.

On April 4, 2024, SCAG adopted *Connect SoCal: The 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy* (2024–2050 RTP/SCS).[21] In general, the SCS outlines a development pattern for the region, which, when integrated with the transportation network and other transportation measures and policies, would reduce vehicle miles traveled from automobiles and light-duty trucks and thereby reduce GHG emissions from these sources. For the SCAG region,

[21] Southern California Association of Governments (SCAG). 2024. *Connect SoCal: The 2024–2050 Regional Transportation Plan/Sustainable Communities Strategy of the Southern California Association of Governments*. Website: scag.ca.gov/connect-socal (accessed September 2024).

CARB has set GHG reduction targets at 8 percent below 2005 per-capita emission levels by 2020 and 19 percent below 2005 per capita emission levels by 2035. The RTP/SCS lays out a strategy for the region to meet these targets. Overall, the SCS is meant to provide growth strategies that will achieve the regional GHG emission reduction targets. Land use strategies to achieve the region's targets include planning for new growth around high-quality transit areas and livable corridors and creating neighborhood mobility areas to integrate land use and transportation and to plan for more active lifestyles.[22] However, the SCS does not require that local General Plans, Specific Plans, or zoning be consistent with the SCS; instead, it provides incentives to governments and developers for consistency.

Local Regulations

San Bernardino County Greenhouse Gas Reduction Plan. As a response to the 2006 AB 32 law, a project partnership led by the San Bernardino Associated Governments, the predecessor agency to the San Bernardino County Transportation Authority, has compiled an inventory of GHG emissions and developed reduction measures that were both adopted by the 21 Partnership Cities of San Bernardino County. The regional GHG reduction plan[23] was adopted in 2021 and will serve as the basis for cities in San Bernardino County to develop more detailed community level climate action plans.

The Town of Yucca Valley was a participant in the San Bernardino County Regional Greenhouse Gas Reduction Plan, which identifies the County's vision and goals on reducing GHG emissions in the different cities, local government facilities, and communities. In response to these initiatives, an informal project partnership, led by the San Bernardino Council of Governments, compiled a GHG emissions inventory and an evaluation of reduction measures that could be adopted by the 25 partnership cities of San Bernardino County. This partnership has committed to undertake the following actions that will reduce GHG emissions associated with its regional (or countywide) activities:

- Prepare a baseline (2016) GHG emissions inventory for each of the 25 Partnership Jurisdictions in the County;
- Prepare a future year (2020, 2030, and 2045) GHG emissions forecast for each of the jurisdictions;
- Develop general GHG reduction measures and jurisdiction-specific measures appropriate for each jurisdiction; and
- Develop consistent baseline in information for jurisdictions to use for their development of community climate action plans meeting jurisdiction-identified reduction goals.

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22 Ibid.

23 San Bernardino Council of Governments (SBCOG). 2021. San Bernardino County Regional Greenhouse Gas Reduction Plan. Website: www.gosbcta.com/wp-content/uploads/2019/09/San_Bernardino_ Regional_GHG_Reduction_Plan_Main_Text_Mar_2021.pdf (accessed September 2024).

Yucca Valley General Plan. The Town of Yucca Valley addresses climate change in the Open Space and Conservation Element of its General Plan.[24] The Open Space and Conservation Element includes goals and policies that work to improve and maintain air quality for the benefit of the health and vitality of residents and the local economy. The following policies from the Open Space and Conservation Element are applicable to the proposed project:

- **Policy OCS 11-1:** Continue to participate in and support the provisions of the San Bernardino Regional Greenhouse Gas Reduction Plan.

- **Policy OCS 11-2:** Encourage new development to be designed to take advantage of the desert climate through solar orientation, shading patterns, and other green building practices and technologies.

- **Policy OCS 11-3:** Maintain General Plan Land Use, Housing, and Transportation goals and policies to be aligned with, support, and enhance SCAG's Regional Transportation Plan and Sustainable Communities Strategy to achieve reductions in GHG emissions.

METHODOLOGY

Construction Emissions

Construction activities can generate a substantial amount of air pollution. Construction activities are considered temporary; however, short-term impacts can contribute to exceedances of air quality standards. Construction activities include site preparation, earthmoving, and general construction. The emissions generated from these common construction activities include fugitive dust from soil disturbance and fuel combustion from mobile heavy-duty, diesel- and gasoline-powered equipment, portable auxiliary equipment, vendor and waste haul trucks, and worker commute trips.

LSA used the California Emissions Estimator Model version 2022.1 (CalEEMod) computer program to calculate emissions from on-site construction equipment and emissions from worker and vehicle trips to the site. This analysis assumes that construction would begin in the fall of 2024 and be completed in 24 months, which was included in CalEEMod. The proposed project would require excavation to provide connections to utilities. Therefore, this analysis included a trenching phase and associated equipment for trenching operations, such as trenchers and tractors/loaders/ backhoes, which was included in CalEEMod. The proposed project would not require any soil import or export, which was specified in CalEEMod. This analysis also assumes that the proposed project would comply with MDAQMD Rule 403 measures. All other construction details are not yet known; therefore, default assumptions (e.g., construction equipment, construction worker and truck trips, and fleet activities) from CalEEMod were used.

[24] Town of Yucca Valley. n.d. *2022 General Plan, Open Space and Conservation Element*. Website: www.yucca-valley.org/our-town/departments/community-development/planning/general-plan-update (accessed September 2024).

Operational Emissions

This air quality analysis includes estimating emissions associated with long-term operation of the project. Indirect emissions of criteria pollutants with regional impacts would be emitted by project-generated vehicle trips. In addition, localized air quality impacts (i.e., higher CO concentrations or "hot-spots") near intersections or roadway segments in the project vicinity would also potentially occur due to project-generated vehicle trips.

Consistent with MDAQMD guidance for estimating emissions associated with land use development projects, the CalEEMod computer program was used to calculate the long-term operational emissions associated with the project. As previously discussed in the Project Location and Description section, the proposed project would construct a 94,500 sf mini storage facility and associated improvements. Therefore, the proposed project analysis was conducted using the land use codes *Unrefrigerated Warehouse No-Rail.* Trip generation rates used in CalEEMod for the project were based on the project's trip generation analysis, which estimates that the project would generate approximately 137 new average daily trips.[25] In addition, consistent with the project design plans, this CalEEMod analysis incorporates selections to reflect no natural gas usage during construction and operation of the proposed project. Therefore, the default natural gas data were converted to kWh and added to the default electricity estimates to account for all energy use for the proposed project, which was included in CalEEMod. When project-specific data were not available, default assumptions from CalEEMod were used to estimate project emissions.

Energy Use

The analysis focuses on the sources of energy that are relevant to the proposed project: electricity, the equipment fuel necessary for project construction, and vehicle fuel necessary for project operations. For the purposes of this analysis, the amounts of electricity, construction fuel, and fuel use from operations are quantified and compared to that consumed in San Bernardino County. The electricity uses of the proposed project are analyzed on an annual basis. Electricity uses were estimated for the project using default energy intensities by land use type in CalEEMod.

Greenhouse Gas Emissions

GHG emissions associated with the project would occur over the short term from construction activities, consisting primarily of emissions from equipment exhaust. There would also be long-term GHG emissions associated with project-related vehicular trips. Recognizing that the field of global climate change analysis is rapidly evolving, the approaches advocated most recently indicate that, for determining a project's contribution to GHG emissions, lead agencies should calculate, or estimate, emissions from vehicular traffic, energy consumption, water conveyance and treatment, waste generation, construction activities, and any other significant source of emissions within the project area. The CalEEMod results were used to quantify GHG emissions generated by the project.

[25] LSA Associates, Inc. 2024. *Sun Mesa Mini Storage Project Trip Generation and Vehicle Miles Traveled Memorandum, Table A.* July 18.

THRESHOLDS OF SIGNIFICANCE

The thresholds of significance used in this analysis are described in this section.

Air Quality

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse air quality impact if project-generated pollutant emissions would do any of the following:

- Conflict with or obstruct implementation of the applicable air quality plan;
- Result in a cumulatively considerable net increase of any criteria pollutant for which the project is in nonattainment under applicable NAAQS or CAAQS;
- Expose sensitive receptors to substantial pollutant concentrations; or
- Result in other emissions (such as those leading to odors) affecting a substantial number of people.

Certain air districts (e.g., MDAQMD) have created guidelines and requirements to conduct air quality analysis. The MDAQMD's current guidelines, the *CEQA* and Federal Air Conformity Guidelines[26], were followed in this assessment of air quality impacts for the proposed project.

Regional Emissions Thresholds

MDAQMD has established daily emission thresholds for construction and operation of proposed projects. Specific criteria for determining whether the potential air quality impacts of a project are significant are set forth in the MDAQMD's *CEQA and Federal Conformity Guidelines*. The criteria include emissions thresholds, compliance with State and national air quality standards, and consistency with the current air quality plans. The emission thresholds were established based on the attainment status of the air basins within the MDAQMD with regard to air quality standards for specific criteria pollutants. Because the concentration standards were set at a level that protects public health with an adequate margin of safety, these emission thresholds are regarded as conservative and would overstate an individual project's contribution to health risks. Table C lists the CEQA significance thresholds for construction and operational emissions established for the MDAQMD.

[26] Mojave Desert Air Quality Management District (MDAQMD). 2020. California Environmental Quality Act (CEQA) and Federal Air Conformity Guidelines. Website: www.mdaqmd.ca.gov/home/showpublisheddocument/8510/638126583450270000 (accessed September 2024).

Table C: Regional Thresholds for Construction and Operational Emissions

Emissions Source	Pollutant Emissions Threshold					
	VOCs	NO_X	CO	PM_{10}	$PM_{2.5}$	SO_X
Tons Per Year						
Construction	25	25	100	25	15	12
Operations	25	25	100	25	15	12
Pounds Per Day						
Construction	137	137	548	82	65	137
Operations	137	137	548	82	65	137

Source: MDAQMD Air Quality Significance Thresholds (MDAQMD 2020).

CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
MDAQMD = Mojave Desert Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

Projects in the MDAQMD with construction- or operations-related emissions that exceed any of their respective emission thresholds would be considered significant under MDAQMD guidelines. These thresholds, which the MDAQMD developed and which apply throughout the MDAQMD, apply as both project and cumulative thresholds. If a project exceeds these standards, it is considered to have a project-specific and cumulative impact.

Local Microscale Concentration Standards

The significance of localized project impacts under CEQA depends on whether ambient CO levels in the project vicinity are above or below State and federal CO standards. Because ambient CO levels are below the standards throughout the MDAQMD, a project would be considered to have a significant CO impact if project emissions would result in an exceedance of one or more of the 1-hour or 8-hour standards. The following are applicable local emission concentration standards for CO:

- California State 1-hour CO standard of 20 ppm
- California State 8-hour CO standard of 9 ppm

Energy

The *State CEQA Guidelines* indicate that a project would normally have a significant adverse impact related to energy if the project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or

- Conflict with or obstruct a State or local plan for renewable energy or energy efficiency

Greenhouse Gas Thresholds

Appendix G of the *State CEQA Guidelines* includes significance thresholds for GHG emissions. A project would normally have a significant effect on the environment if it would do either of the following:

- Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or

- Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

Currently, there is no statewide GHG emissions threshold that has been used to determine the potential GHG emissions impacts of a project. Threshold methodology and thresholds are still being developed and revised by air districts in California.

The Town of Yucca Valley adopted San Bernardino County's *Greenhouse Gas Emissions Reduction Plan Update*[27] in 2021 and GHG Development Review Process (DRP)[28] in 2015. The DRP procedures need to be followed to evaluate GHG impacts and determine significance for CEQA purposes. All projects need to apply the GHG performance standards identified in the DRP and comply with State requirements. For projects exceeding the review standard of 3,000 MT CO_2e per year, the use of screening tables or a project-specific technical analysis to quantify and mitigate project emissions is required. If the GHG emissions from the project are less than 3,000 MT CO_2e per year and the project would apply GHG performance standards and State requirements, project-level and cumulative GHG emissions would be less than significant.

For the purpose of this analysis, the proposed project will be compared to the San Bernardino County Review Threshold of 3,000 MT CO_2e/yr. The project is also evaluated for compliance with the 2022 Scoping Plan, and the 2024–2050 RTP/SCS.

IMPACT ANALYSIS

This section identifies potential air quality, energy, and GHG impacts associated with implementation of the proposed project.

Air Quality Impacts

Air pollutant emissions associated with the project would occur over the short term from construction activities and over the long term from project-related vehicular trips and energy consumption.

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27 San Bernardino Council of Governments (SBCOG). 2021. San Bernardino County Regional Greenhouse Gas Reduction Plan. Website: www.gosbcta.com/wp-content/uploads/2019/09/San_Bernardino_Regional_GHG_Reduction_Plan_Main_Text_Mar_2021.pdf (accessed September 2024).

28 Atkins. 2015. *Greenhouse Gas Development Review Process, County of San Bernardino*. March. Website: www.sbcounty.gov/Uploads/lus/GreenhouseGas/FinalGHGUpdate.pdf (accessed September 2024)

Consistency with Applicable Air Quality Plans

A consistency determination plays an essential role in local agency project review by linking local planning and unique individual projects to the air quality plans. A consistency determination fulfills the CEQA goal of fully informing local agency decision-makers of the environmental costs of the project under consideration at a stage early enough to ensure that air quality concerns are addressed. Only new or amended General Plan elements, Specific Plans, and significantly unique projects need to undergo a consistency review due to the air quality plan strategy being based on projections from local General Plans. The Town of Yucca Valley General Plan Land Use and Zoning Maps designate the project site as Commercial (C)[29] and Neighborhood Commercial (C-N). The proposed project site is consistent with this land use and zoning designation. Therefore, the proposed project would not require a land use or zoning designation change.

As identified above, all areas designated as nonattainment under the CCAA are required to prepare plans showing how they will meet the air quality standards. The most recent air quality plans are the PM_{10} Attainment Demonstration and Attainment Plan and the O_3 Attainment Plan. The attainment plans are based on regional growth projections developed by SCAG. Under CEQA, a project has the potential to be regionally significant if it would house more than 1,000 persons, occupy more than 40 acres of land, or encompass more than 650,000 sf of floor area. The proposed project would include a 94,500 sf mini storage facility; therefore, the proposed project would not be considered regionally significant.

Additionally, as discussed below, the regional emissions generated by construction and operation phases of the proposed project would be less than the MDAQMD emissions thresholds, and MDAQMD would not consider the project a substantial source of air pollutant emissions that would have the potential to affect the attainment designations in the air basin. Therefore, the proposed project would not affect the regional emissions inventory or conflict with strategies in the applicable air quality plans.

Criteria Pollutant Analysis

The Basin is designated as nonattainment for O_3 and PM_{10} for federal standards and nonattainment for O_3, PM_{10}, and $PM_{2.5}$ for State standards. The MDAQMD's nonattainment status is attributed to the region's development history. Past, present, and future development projects contribute to the region's adverse air quality impacts on a cumulative basis. By its very nature, air pollution is largely a cumulative impact. No single project is sufficient in size to, by itself, result in nonattainment of ambient air quality standards. Instead, a project's individual emissions contribute to existing cumulatively significant adverse air quality impacts. If a project's contribution to the cumulative impact is considerable, then the project's impact on air quality would be considered significant.

In developing thresholds of significance for air pollutants, the MDAQMD considered the emission levels for which a project's individual emissions would be cumulatively considerable. If a project

[29] Town of Yucca Valley. 2014. Yucca Valley General Plan, Figure LU-1: General Plan Land Use. Website: chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/www.yucca-valley.org/home/showpublisheddocument/2778/637009499961530000 (accessed September 2024).

exceeds the identified significance thresholds, its emissions would be cumulatively considerable, resulting in significant adverse air quality impacts to the region's existing air quality conditions. Therefore, additional analysis to assess cumulative impacts is unnecessary. The following analysis assesses the potential project-level construction- and operation-related air quality impacts.

Construction Emissions. During construction, short-term degradation of air quality may occur due to the release of particulate matter emissions (i.e., fugitive dust) generated by building construction, paving, and other activities. Emissions from construction equipment are also anticipated and would include CO, nitrogen oxides (NO_X), VOCs, directly emitted $PM_{2.5}$ or PM_{10}, and toxic air contaminants such as diesel exhaust particulate matter.

Project construction activities would include grading, site preparation, building construction, architectural coating, paving, and trenching activities. Construction-related effects on air quality from the proposed project would be greatest during the grading and site preparation phases due to the disturbance of soils. If not properly controlled, these activities would temporarily generate particulate emissions. Sources of fugitive dust would include disturbed soils at the construction site. Unless properly controlled, vehicles leaving the site would deposit dirt and mud on local streets, which could be an additional source of airborne dust after it dries. PM_{10} emissions would vary from day to day, depending on the nature and magnitude of construction activity and local weather conditions. PM_{10} emissions would depend on soil moisture, silt content of soil, wind speed, and amount of operating equipment. Larger dust particles would settle near the source, whereas fine particles would be dispersed over greater distances from the construction site.

Water or other soil stabilizers can be used to control dust, resulting in emission reductions of 50 percent or more. MDAQMD has established Rule 403.2: Fugitive Dust Control, which would require the applicant to implement measures that would reduce the amount of particulate matter generated during the construction period.

In addition to dust-related PM_{10} emissions, heavy trucks and construction equipment powered by gasoline and diesel engines would generate CO, sulfur oxides (SO_X), NO_X, VOCs, and some soot particulate ($PM_{2.5}$ and PM_{10}) in exhaust emissions. If construction activities were to increase traffic congestion in the area, CO and other emissions from traffic would increase slightly while those vehicles idle in traffic. These emissions would be temporary in nature and limited to the immediate area surrounding the construction site.

Construction emissions were estimated for the project using CalEEMod and are summarized in Table D (CalEEMod output sheets are provided in Attachment B).

The results shown in Table D indicate the proposed project would not exceed the significance criteria for daily VOCs, NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$ emissions. Therefore, construction of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under applicable NAAQS or CAAQS.

Table D: Short-Term Regional Construction Emissions

Construction Year	Maximum Regional Pollutant Emissions					
	VOCs	NO_X	CO	SO_X	Total PM_{10}	Total $PM_{2.5}$
Pounds Per Day						
Site Preparation	3.7	36.1	34.0	<0.1	6.9	4.2
Grading	2.0	18.3	19.7	<0.1	2.9	1.7
Trenching	0.4	2.6	3.8	<0.1	0.2	0.1
Building Construction	1.3	11.1	16.6	<0.1	1.1	0.6
Paving	0.8	6.6	10.5	<0.1	0.5	0.3
Architectural Coating	9.7	0.9	2.4	<0.1	0.2	0.1
Maximum (lbs/day)	**11.0**	**36.1**	**34.0**	**<0.1**	**6.9**	**4.2**
MDAQMD Thresholds	137.0	137.0	548.0	137.0	82.0	65.0
Exceeds?	**No**	**No**	**No**	**No**	**No**	**No**
Tons Per Year						
2024	0.1	0.5	0.5	<0.1	0.1	<0.1
2025	0.1	0.9	1.3	<0.1	0.1	<0.1
2026	0.3	0.7	1.1	<0.1	0.1	<0.1
Maximum (tons/year)	**0.3**	**0.9**	**1.3**	**<0.1**	**0.1**	**<0.1**
MDAQMD Thresholds	25	25	100	25	15	12
Significant?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
Note: Maximum emissions of VOCs occurred during the overlapping building construction and architectural coating phases
CO = carbon monoxide
lbs/day = pounds per day
NO_X = nitrogen oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
PM_{10} = particulate matter less than 10 microns in size
MDAQMD = Mojave Desert Air Quality Management District
SO_X = sulfur oxides
VOCs = volatile organic compounds

Operational Air Quality Impacts. Long-term air pollutant emissions associated with operation of the proposed project include emissions from area, energy, and mobile sources. Area-source emissions include architectural coatings, consumer products, and landscaping. Energy-source emissions result from activities in buildings that use natural gas. Mobile-source emissions are from vehicle trips associated with operation of the project.

Mobile source emissions include VOC and NO_X emissions that contribute to the formation of O_3. Additionally, PM_{10} emissions result from running exhaust, tire and brake wear, and the entrainment of dust into the atmosphere from vehicles traveling on paved roadways.

Energy-source emissions result from activities in buildings that use natural gas. The quantity of emissions is the product of usage intensity (i.e., the amount of natural gas) and the emission factor of the fuel source. However, the proposed project would not use natural gas. Therefore, energy-source emissions would be minimal.

Area-source emissions consist of direct sources of air emissions at the project site, including architectural coatings, consumer products, and use of landscape maintenance equipment.

Long-term operational emissions associated with the proposed project were calculated using CalEEMod. Table E provides the estimated existing emission estimates and the proposed project's estimated operational emissions.

The results shown in Table E indicate the proposed project would not exceed the significance criteria for daily VOC, NO_X, CO, SO_X, PM_{10}, or $PM_{2.5}$ emissions. Therefore, operation of the proposed project would not result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in nonattainment under applicable NAAQS or CAAQS.

Table E: Project Operational Emissions

Emission Type	Pollutant Emissions					
	VOCs	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Pounds Per Day						
Mobile Sources	0.8	0.9	7.9	<0.1	1.5	0.4
Area Sources	2.8	<0.1	4.1	<0.1	<0.1	<0.1
Energy Sources	0.0	0.0	0.0	0.0	0.0	0.0
Total Project Emissions	**3.6**	**0.9**	**12.0**	**<0.1**	**1.5**	**0.4**
MDAQMD Thresholds	137.0	137.0	548.0	137.0	82.0	65.0
Significant?	**No**	**No**	**No**	**No**	**No**	**No**
Tons Per Year						
Mobile Sources	0.1	0.2	1.2	<0.1	0.3	0.1
Area Sources	0.5	<0.1	0.4	<0.1	<0.1	<0.1
Energy Sources	0.0	0.0	0.0	0.0	0.0	0.0
Total Project Emissions	**0.6**	**0.2**	**1.6**	**<0.1**	**0.3**	**0.1**
MDAQMD Thresholds	25	25	100	25	15	12
Significant?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Compiled by LSA (September 2024).
Note: Some values may not appear to add correctly due to rounding.
CO = carbon monoxide
MDAQMD = Mojave Desert Air Quality Management District
NO_X = nitrogen oxides
SO_X = sulfur oxides
$PM_{2.5}$ = particulate matter less than 2.5 microns in size
VOCs = volatile organic compounds
PM_{10} = particulate matter less than 10 microns in size

Long-Term Microscale (CO Hot-Spot) Analysis. Vehicular trips associated with the proposed project would contribute to congestion at intersections and along roadway segments in the vicinity of the proposed project site. Localized air quality impacts would occur when emissions from vehicular traffic increase as a result of the proposed project. The primary mobile-source pollutant of local concern is CO, a direct function of vehicle idling time and, thus, of traffic flow conditions. CO transport is extremely limited. Under normal meteorological conditions, it disperses rapidly with distance from the source. However, under certain extreme meteorological conditions, CO concentrations near a congested roadway or intersection may reach unhealthful levels, thereby affecting local sensitive receptors (e.g., residents, schoolchildren, the elderly, and hospital patients).

Typically, high CO concentrations are associated with roadways or intersections operating at unacceptable levels of service or with extremely high traffic volumes. In areas with high ambient background CO concentrations, modeling is recommended to determine a project's effect on local CO levels.

An assessment of project-related impacts on localized ambient air quality requires that future ambient air quality levels be projected. Existing CO concentrations in the immediate project vicinity are not available. Ambient CO levels monitored at the San Bernardino 4th Street station (the closest

station to the project site monitoring CO) showed a highest recorded 1-hour concentration of 3.8 ppm (the State standard is 20 ppm) and a highest 8-hour concentration of 2.9 ppm (the State standard is 9 ppm) from 2022 to 2024. The highest CO concentrations would normally occur during peak traffic hours; hence, CO impacts calculated under peak traffic conditions represent a worst-case analysis. Reduced speeds and vehicular congestion at intersections result in increased CO emissions.

The proposed project is expected to generate 137 average daily trips, with 9 trips occurring in the a.m. peak hour and 15 trips occurring in the p.m. peak hour.[30] Therefore, given the extremely low level of CO concentrations in the project area and the lack of traffic impacts at any intersections, project-related vehicles are not expected to result in CO concentrations exceeding the State or federal CO standards. No CO hot spots would occur, and the project would not result in any project-related impacts on CO concentrations.

Health Risk on Nearby Sensitive Receptors

Sensitive receptors are defined as people that have an increased sensitivity to air pollution or environmental contaminants. Sensitive receptor locations include schools, parks and playgrounds, daycare centers, nursing homes, hospitals, and residential dwelling units. As described above, the project site is surrounded primarily by industrial uses, vacant land, and residential uses. The nearest sensitive receptors include a single-family home located southeast of the project site at approximately 200 feet from the project site boundary.

As detailed in Table D and Table E, the emission levels indicate that the project would not exceed MDAQMD thresholds during project construction or operation. Due to the small size of the proposed project in relation to the overall Basin, the level of emissions is not sufficiently high enough to use a regional modeling program to correlate health effects on a Basin-wide level. On a regional scale, the quantity of emissions from the project is incrementally minor. Therefore, the proposed project would not expose sensitive receptors to substantial levels of pollutant concentrations.

Odors

Heavy-duty equipment on the project site during construction would emit odors, primarily from equipment exhaust. However, the construction activity would cease after individual construction is completed. The proposed project would not include any activities or operations that would generate objectionable odors, and once operational, the project would not be a source of odors. Therefore, the proposed project would not result in other emissions (such as those leading to odors) affecting a substantial number of people.

Energy Use

This section discusses energy use resulting from implementation of the proposed project and evaluates whether the proposed project would result in the wasteful, inefficient, or unnecessary

[30] LSA Associates, Inc. 2024. *Sun Mesa Mini Storage Project Trip Generation and Vehicle Miles Traveled Memorandum, Table A.* July 18.

consumption of energy resources or conflict with any applicable plans for renewable energy and energy efficiency.

Construction

The anticipated construction schedule assumes that the proposed project would be built in approximately 24 months. Construction-specific phases were assessed for their energy consumption under each construction sub-phase: grading, site preparation, building construction, paving, architectural coating, and trenching activities.

Construction would require energy for the manufacture and transportation of construction materials, preparation of the site for grading and building activities, and construction of the building. All or most of this energy would be derived from nonrenewable resources. Petroleum fuels (e.g., diesel and gasoline) would be the primary sources of energy for these activities. However, construction activities are not anticipated to result in an inefficient use of energy as gasoline and diesel fuel would be supplied by construction contractors who would conserve the use of their supplies to minimize their costs on the project. Energy (i.e., fuel) usage on the project site during construction would be temporary in nature and would be relatively small in comparison to the State's available energy sources.

Operation

Energy use associated with the proposed project would consist of natural gas, electricity, and vehicle fuel use associated with project operations.

Table F shows the estimated potential increased electricity, gasoline, and diesel demand associated with the proposed project. The electricity and natural gas rates are from the CalEEMod analysis, while the gasoline and diesel rates are based on the traffic analysis in conjunction with USDOT fuel efficiency data and using the USEPA's fuel economy estimates for 2020 and the California diesel fuel economy estimates for 2021.

Table F: Estimated Annual Energy Use of Proposed Project

	Electricity Use (kWh per year)	Natural Gas Use (kBTU per year)	Gasoline (gallons per year)	Diesel (gallons per year)
Proposed Project	962,994	0	27,218	19,120

Source: Compiled by LSA (September 2024).
kBTU = thousand British thermal units
kWh = kilowatt hours

As shown in Table F, the estimated increase in electricity demand associated with the operation of the proposed project would be 962,994 kWh per year. Total electricity consumption in San Bernardino County in 2022 was 16,629,614,195 kWh;[31] therefore, operation of the proposed project

[31] CEC. 2022. Electricity Consumption by County. Website: www.ecdms.energy.ca.gov/elecbycounty.aspx (accessed September 2024).

would negligibly increase the annual electricity consumption in San Bernardino County by approximately less than 0.1 percent.

In addition, the project would result in energy usage associated with motor vehicle gasoline to fuel project-related trips. As shown above in Table F, the proposed project would result in the consumption of 27,218 gallons of gasoline and 19,120 gallons of diesel per year. Based on fuel consumption obtained from EMFAC2021, approximately 328.0 million gallons of gasoline and approximately 856.3 million gallons of diesel will be consumed from vehicle trips in San Bernardino County in 2026. Therefore, vehicle trips associated with the proposed project would increase the annual fuel use in San Bernardino County by approximately less than 0.1 percent for gasoline fuel usage and approximately less than 0.1 percent for diesel fuel usage. The proposed project would result in fuel usage that is a small fraction of current annual fuel use in San Bernardino County, and fuel consumption associated with vehicle trips generated by project operations would not be considered inefficient, wasteful, or unnecessary in comparison to other similar developments in the region. Therefore, gasoline demand generated by vehicle trips associated with the proposed project would be a minimal fraction of gasoline and diesel fuel consumption in California.

Furthermore, the proposed project would be constructed using energy efficient modern building materials and construction practices, and the proposed project also would use new modern appliances and equipment, in accordance with the Appliance Efficiency Regulations (Title 20, CCR Sections 1601 through 1608). The expected energy consumption during construction and operation of the proposed project would be consistent with typical usage rates for commercial uses; however, energy consumption is largely a function of personal choice and the physical structure and layout of buildings. Therefore, the proposed project would not result in a potential significant impact due to wasteful, inefficient, or unnecessary consumption of energy resources during project construction or operation.

Conflict with or Obstruction of a State or Local Plan for Renewable Energy or Energy Efficiency

The CEC recently adopted the *2023 Integrated Energy Policy Report*.[32] The *2023 Integrated Energy Policy Report* provides the results of the CEC's assessments of a variety of energy issues facing California. Many of these issues will require action if the State is to meet its climate, energy, air quality, and other environmental goals while maintaining energy reliability and controlling costs. The *2023 Integrated Energy Policy Report* covers a broad range of topics, including decarbonizing buildings, integrating renewables, energy efficiency, energy equity, integrating renewable energy, updates on Southern California electricity reliability, climate adaptation activities for the energy sector, natural gas assessment, transportation energy demand forecasts, and the California Energy Demand Forecast.

As indicated above, energy usage on the project site during construction would be temporary in nature and would be relatively small in comparison to the State's available energy sources. In addition, energy usage associated with operation of the proposed project would be relatively small in comparison to the region's available energy sources, and energy impacts would be negligible at

[32] CEC. 2023. *2023 Integrated Energy Policy Report*. California Energy Commission. Docket Number: 23-IEPR-01.

the regional level. Because California's energy conservation planning actions are conducted at a regional level, and because the project's total impact on regional energy supplies would be minor, the proposed project would not conflict with or obstruct California's energy conservation plans as described in the CEC's *2023 Integrated Energy Policy Report*. Therefore, the proposed project would not lead to new or substantially more severe energy impacts.

Greenhouse Gas Emission Impacts

The following sections describe the proposed project's construction- and operation-related GHG impacts and consistency with applicable GHG reduction plans.

Generation of Greenhouse Gas Emissions

The following section details the proposed project's construction- and operational-related GHG emissions and contribution to global climate change.

Construction Greenhouse Gas Emissions. Construction activities associated with the proposed project would produce combustion emissions from various sources. During construction, GHGs would be emitted through the operation of construction equipment and from worker and builder supply vendor vehicles, each of which typically use fossil-based fuels to operate. The combustion of fossil-based fuels creates GHGs such as CO_2, CH_4, and N_2O. Furthermore, CH_4 is emitted during the fueling of heavy equipment. Exhaust emissions from on-site construction activities would vary daily as construction activity levels change.

As indicated above, MDAQMD does not have an adopted threshold of significance for construction-related GHG emissions. However, lead agencies are required to quantify and disclose GHG emissions that would occur during construction. As described above, for the purpose of this analysis, the proposed project will be compared to the San Bernardino County Review threshold of 3,000 MT/year CO_2e. Construction GHG emissions are amortized over the life of the project (considered to be 30 years), added to the operational emissions, and compared to the applicable GHG significance threshold.

Using CalEEMod, it is estimated that the project would generate approximately 495.3 MT CO_2e during construction of the project. When amortized over the 30-year life of the project, annual emissions would be 16.5 MT CO_2e.

Operational Greenhouse Gas Emissions. Long-term operation of the proposed project would generate GHG emissions from area, mobile, waste, and water sources, as well as indirect emissions from sources associated with energy consumption. Mobile-source GHG emissions would include project-generated vehicle trips associated with trips to the proposed project. Area-source emissions would be associated with activities such as landscaping and maintenance on the project site and other sources. Waste-source emissions generated by the proposed project include energy generated by landfilling and other methods of disposal related to transporting and managing project-generated waste. In addition, water-source emissions associated with the proposed project are generated by water supply and conveyance, water treatment, water distribution, and wastewater treatment.

GHG emissions were estimated using CalEEMod. Table G shows the estimated operational GHG emissions for the proposed project. Motor vehicle emissions are the largest source of GHG emissions for the project, at approximately 47 percent of the project total. Energy sources are the next largest category, at approximately 38 percent. Water and waste sources are about 10 and 5 percent of the total emissions, respectively. Area sources make up less than 1 percent of the total emissions.

Table G: Greenhouse Gas Emissions

Emission Type	Operational Emissions (MT/yr)				
	CO_2	CH_4	N_2O	CO_2e	Percentage of Total
Mobile Source	283.9	<0.1	<0.1	288.6	47
Area Source	1.4	<0.1	<0.1	1.4	<1
Energy Source	232.4	<0.1	<0.1	233.3	38
Water Source	37.4	0.7	<0.1	60.3	10
Waste Source	7.9	0.8	0.0	27.7	5
Total Operational Emissions				**611.3**	
Amortized Construction Emissions				16.5	—
Total Annual Emissions				**627.8**	—
San Bernardino County Review Threshold				**3,000**	
Exceedance?				**No**	

Source: Compiled by LSA (September 2024).
Note: Figures may not appear to add correctly due to rounding.
CH_4 = methane
CO_2 = carbon dioxide
CO_2e = carbon dioxide equivalent
MT/yr = metric tons per year
N_2O = nitrous oxide

As discussed above, a project would have less than significant GHG emissions if it would result in operational-related GHG emissions of less than 3,000 MT CO_2e/yr. Based on the analysis results, the proposed project would result in approximately 627.8 MT CO_2e/yr, which would not exceed the San Bernardino County Review Threshold of 3,000 MT CO_2e/yr. Therefore, project-level and cumulative GHG emissions would be less than significant. Therefore, operation of the proposed project would not generate significant GHG emissions that would have a significant effect on the environment.

Consistency with Greenhouse Gas Reduction Plans

The following discussion evaluates the proposed project according to the goals of the 2022 Scoping Plan and SCAG's 2024–2050 RTP/SCS.

2022 Scoping Plan. EO B-30-15 added the immediate target of reducing GHG emissions to 40 percent below 1990 levels by 2030. SB 32 affirms the importance of addressing climate change by codifying into statute the GHG emissions reduction target of at least 40 percent below 1990 levels by 2030 contained in EO B-30-15. CARB released the 2017 Scoping Plan to reflect the 2030 target set by EO B-30-15 and codified by SB 32.[33] SB 32 builds on AB 32 and keeps California on the path toward achieving the State's 2050 objective of reducing emissions to 80 percent below 1990 levels.

[33] CARB. 2017. *California's 2017 Climate Change Scoping Plan*. November

AB 197, the companion bill to SB 32, provides additional direction to CARB that is related to the adoption of strategies to reduce GHG emissions. Additional direction in AB 197 that is intended to provide easier public access to air emission data collected by CARB was posted in December 2016. AB 1279 codifies the State goals of achieving net carbon neutrality by 2045 and maintaining net negative GHG emissions thereafter.

In addition, the 2022 Scoping Plan[34] assesses progress toward the statutory 2030 target while laying out a path to achieving carbon neutrality no later than 2045. The 2022 Scoping Plan focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean technology, energy deployment, natural and working lands, and others, and is designed to meet the State's long-term climate objectives and support a range of economic, environmental, energy security, environmental justice, and public health priorities.

- **Energy-efficient measures** are intended to maximize energy-efficiency building and appliance standards, pursue additional efficiency efforts including new technologies and new policy and implementation mechanisms, and pursue comparable investment in energy efficiency from all retail providers of electricity in California. In addition, these measures are designed to expand the use of green building practices to reduce the carbon footprint of California's new and existing inventory of buildings. As mentioned above, the proposed project would not be powered by natural gas, and no natural gas demand is anticipated during construction or operation of the proposed project. The elimination of natural gas in new development would help projects implement their "fair share" of achieving long-term 2045 carbon neutrality consistent with State goals. Therefore, if a project does not use natural gas, a lead agency can conclude that it would be consistent with achieving the 2045 neutrality goal and will not have a cumulative considerable impact on climate change.[35] The proposed project does not include natural gas. In addition, the proposed project would comply with the latest Title 24 standards regarding energy conservation and green building standards. Therefore, the proposed project would comply with applicable energy measures.

- **Water conservation and efficiency measures** are intended to continue efficiency programs and use cleaner energy sources to move and treat water. Increasing the efficiency of water transport and reducing water use would reduce GHG emissions. As noted above, the project would be required to comply with the latest Title 24 standards, which include a variety of different measures, including reduction of wastewater and water use. The proposed project would also include low water landscape in their design. In addition, the proposed project would be required to comply with the California Model Water Efficient Landscape Ordinance. Therefore, the

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34 CARB. 2022. *2022 Scoping Plan for Achieving Carbon Neutrality.* December. Website: ww2.arb.ca.gov/sites/default/files/2023-04/2022-sp.pdf (accessed September 2024).

35 Bay Area Air Quality Management District (BAAQMD). 2022. *Justification Report: CEQA Thresholds for Evaluating the Significance of Climate Impacts From Land Use Projects and Plans.* April. Website: www.baaqmd.gov/~/media/files/planning-and-research/ceqa/final-ceqa-thresholds-report-for-climate-impacts-02092022-alt-pdf.pdf?rev=a3f6b70f316b4637864fb0b2cff78ebd&sc_lang=vi-vn (accessed September 2024).

proposed project would not conflict with any of the water conservation and efficiency measures.

- **Transportation and motor vehicle measures** are intended to develop regional GHG emission reduction targets for passenger vehicles. Specific regional emission targets for transportation emissions would not directly apply to the proposed project. However, vehicles traveling to the project site would comply with the Pavley II (LEV III) Advanced Clean Cars Program. The second phase of Pavley standards will reduce GHG emissions from new cars by 34 percent from 2016 levels by 2025, resulting in a 3 percent decrease in average vehicle emissions for all vehicles by 2020. Therefore, the proposed project would not conflict with the identified transportation and motor vehicle measures.

The proposed project would comply with existing State regulations adopted to achieve the overall GHG emission reduction goals identified in the 2022 Scoping Plan.

SCAG's Regional Transportation Plan/Sustainable Communities Strategy. SCAG's 2024–2050 RTP/SCS identifies land use strategies that focus on new housing and job growth in areas served by high-quality transit, and other opportunity areas would be consistent with a land use development pattern that supports and complements the proposed transportation network. The core vision in the 2024–2050 RTP/SCS is to better manage the existing transportation system through design management strategies, integrate land use decisions and technological advancements, create complete streets that are safe for all roadway users, preserve the transportation system, and expand transit and foster development in transit-oriented communities. The 2024–2050 RTP/SCS contains transportation projects to help more efficiently distribute population, housing, and employment growth, as well as providing a forecast development pattern that is generally consistent with regional-level General Plan data. The forecast development pattern, when integrated with the financially constrained transportation investments identified in the 2024–2050 RTP/SCS, would reach the regional target of reducing GHG emissions from automobiles and light-duty trucks by 8 percent by 2020 and 19 percent by 2035 (compared to 2005 levels per capita emission levels). The 2024–2050 RTP/SCS does not require that local General Plans, Specific Plans, or zoning be consistent with the 2024–2050 RTP/SCS, but it provides incentives for consistency for governments and developers.

Implementing SCAG's RTP/SCS will greatly reduce the regional GHG emissions from transportation, helping to achieve statewide emissions reduction targets. As demonstrated in the Consistency with Applicable Air Quality Plans section, above, the proposed project does not meet the criteria identified in *State CEQA Guidelines* Section 15205.b.2 (Projects of Statewide, Regional, or Areawide Significance) for projects of statewide, regional, or area-wide significance. In addition, the proposed project would not require a change to the General Plan land use designation or the current zoning, and would be consistent with the Town's General Plan and Zoning Ordinance. Therefore, the proposed project would not interfere with SCAG's ability to achieve the region's GHG reduction target of 19 percent below 2005 per capita emissions levels by 2035. Furthermore, the proposed project is not regionally significant per *State CEQA Guidelines* Section 15206 and, therefore, it would not conflict with the SCAG RTP/SCS targets since those targets were established and are applicable on a regional level.

The proposed project would construct a 94,500 sf mini storage facility and associated improvements that are consistent with existing local and regional planning assumptions for the project site. Therefore, it is anticipated that implementation of the proposed project would not interfere with SCAG's ability to implement the regional strategies outlined in the RTP/SCS.

CONCLUSION

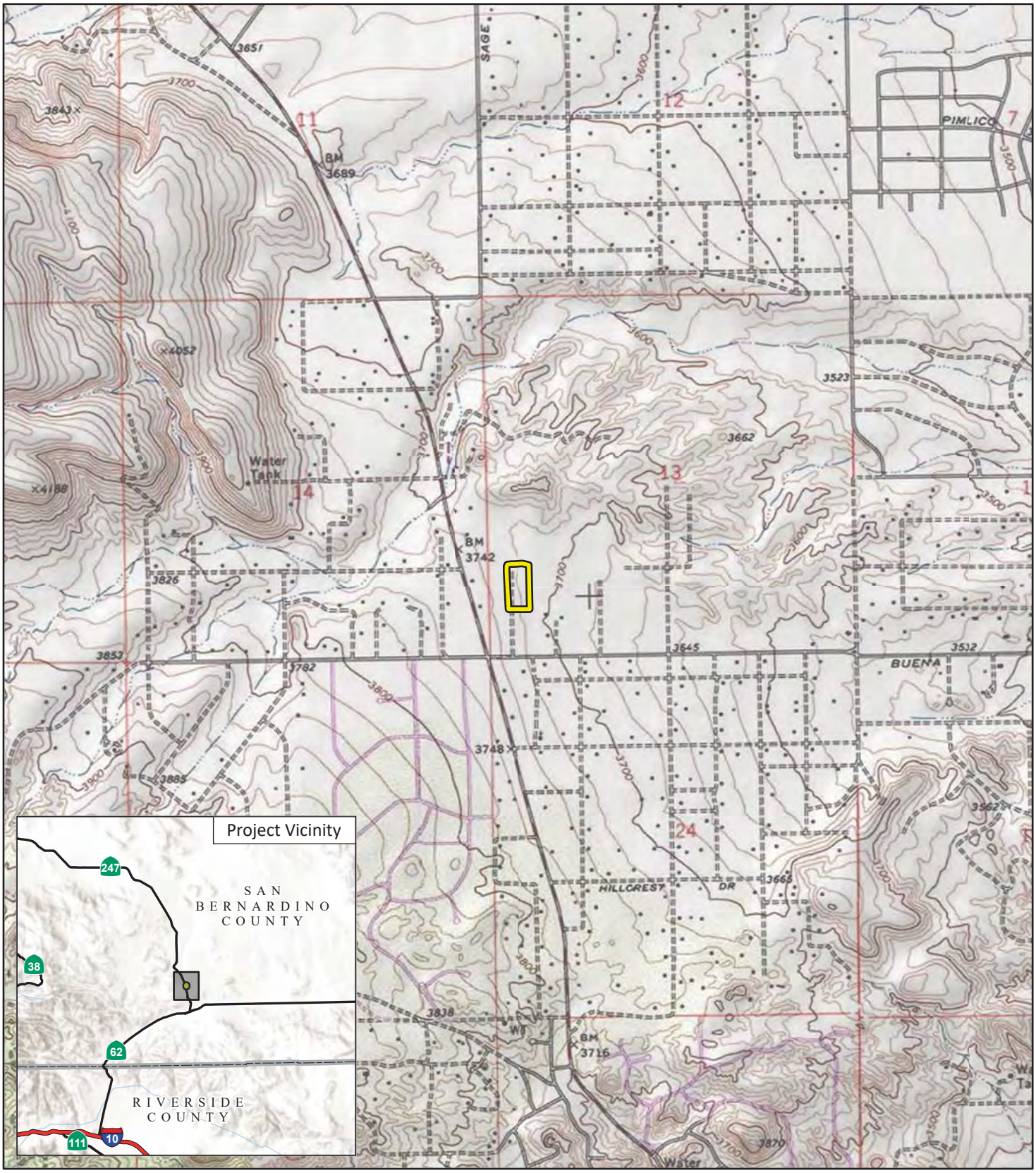
Based on the analysis presented above, construction and operation of the proposed project would not result in the generation of criteria air pollutants that would exceed MDAQMD thresholds of significance. Compliance with MDAQMD Rule 403: Fugitive Dust would further reduce construction dust impacts. The proposed project is not expected to produce significant emissions that would affect nearby sensitive receptors. The project would also not result in objectionable odors affecting a substantial number of people. GHG emissions released during construction and operation of the project are estimated to be minimal and would not be cumulatively considerable. In addition, the proposed project would generally be consistent with both the 2022 Scoping Plan and the SCAG RTP/SCS.

Attachments: A: Figure 1: Project Location
Figure 2: Project Site Plan
B: CalEEMod Output Files

ATTACHMENT A

FIGURES

Figure 1: Project Location
Figure 2: Project Site Plan



LSA

Project Area

FIGURE 1

Sun Mesa (Billings) Mini Storage Project

Project Location

SOURCE: USGS 7.5' Quad - *Yucca Valley North (1989)*, CA

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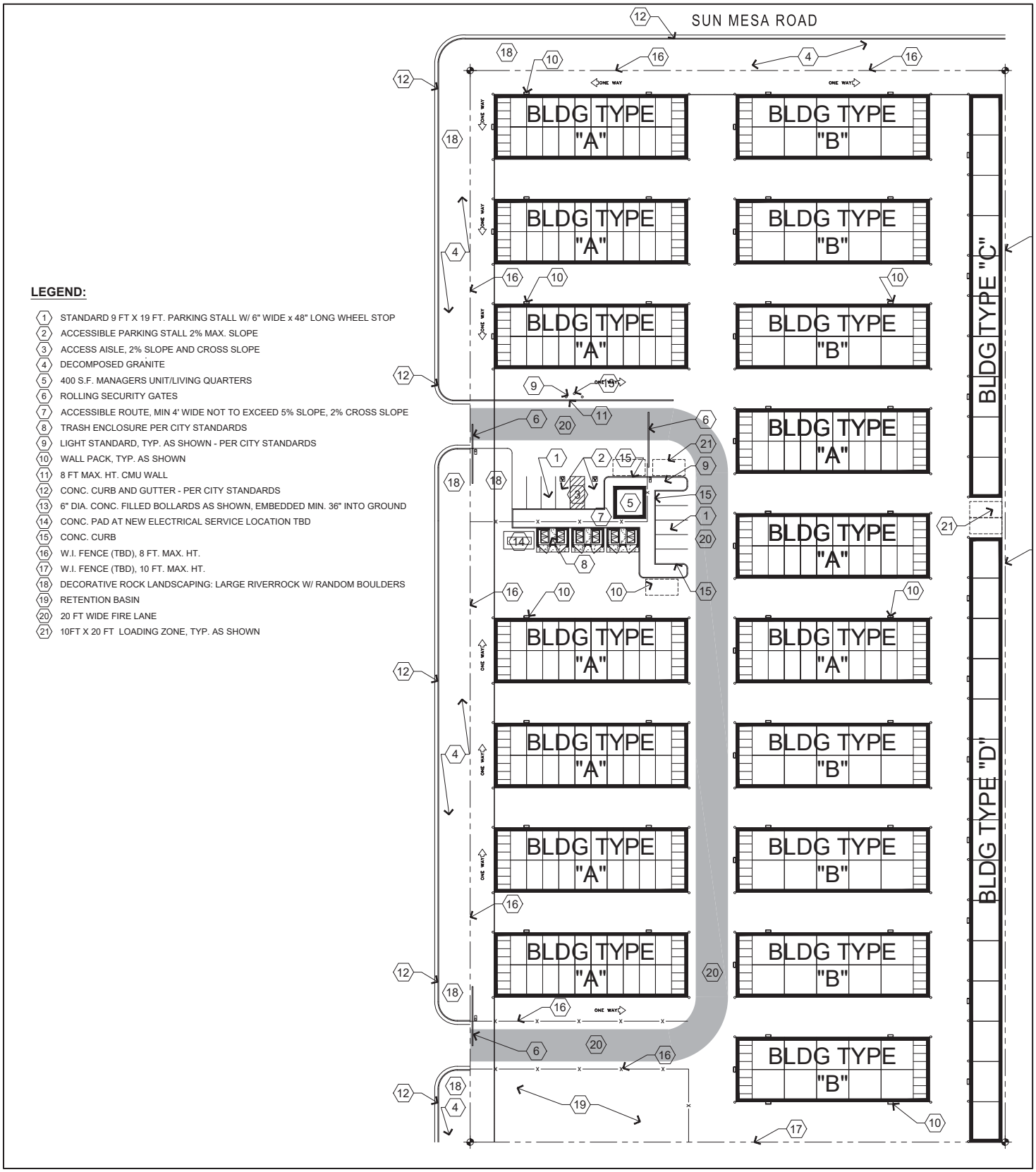

LEGEND:

1. STANDARD 9 FT X 19 FT. PARKING STALL W/ 6" WIDE x 48" LONG WHEEL STOP
2. ACCESSIBLE PARKING STALL 2% MAX. SLOPE
3. ACCESS AISLE, 2% SLOPE AND CROSS SLOPE
4. DECOMPOSED GRANITE
5. 400 S.F. MANAGERS UNIT/LIVING QUARTERS
6. ROLLING SECURITY GATES
7. ACCESSIBLE ROUTE, MIN 4' WIDE NOT TO EXCEED 5% SLOPE, 2% CROSS SLOPE
8. TRASH ENCLOSURE PER CITY STANDARDS
9. LIGHT STANDARD, TYP. AS SHOWN - PER CITY STANDARDS
10. WALL PACK, TYP. AS SHOWN
11. 8 FT MAX. HT. CMU WALL
12. CONC. CURB AND GUTTER - PER CITY STANDARDS
13. 6" DIA. CONC. FILLED BOLLARDS AS SHOWN, EMBEDDED MIN. 36" INTO GROUND
14. CONC. PAD AT NEW ELECTRICAL SERVICE LOCATION TBD
15. CONC. CURB
16. W.I. FENCE (TBD), 8 FT. MAX. HT.
17. W.I. FENCE (TBD), 10 FT. MAX. HT.
18. DECORATIVE ROCK LANDSCAPING: LARGE RIVERROCK W/ RANDOM BOULDERS
19. RETENTION BASIN
20. 20 FT WIDE FIRE LANE
21. 10FT X 20 FT LOADING ZONE, TYP. AS SHOWN

LSA

FIGURE 2

N

NOT TO SCALE

Sun Mesa (Billings) Mini Storage Project

Project Site Plan

SOURCE: DRP Enterprises

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ATTACHMENT B

CALEEMOD OUTPUT FILES

Sun Mesa Mini Storage (20231230) Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sun Mesa Mini Storage (20231230)
Construction Start Date	10/15/2024
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	14.4
Location	34.16702495562455, -116.42088238904205
County	San Bernardino-Mojave Desert
City	Yucca Valley
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5144
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	94.5	1000sqft	4.34	94,500	7,620	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-5	Design Water-Efficient Landscapes

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.0	11.4	18.6	0.03	0.44	0.86	1.27	0.40	0.21	0.58	—	3,809	3,809	0.14	0.11	3.91	3,850
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.0	36.1	34.0	0.05	1.60	5.34	6.94	1.47	2.68	4.15	—	5,526	5,526	0.23	0.11	0.10	5,548
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.67	4.94	7.23	0.01	0.20	0.30	0.44	0.19	0.14	0.25	—	1,350	1,350	0.05	0.03	0.49	1,361
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.31	0.90	1.32	< 0.005	0.04	0.06	0.08	0.03	0.03	0.05	—	223	223	0.01	0.01	0.08	225
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshol	137	137	548	137	—	—	82.0	—	—	65.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	137	137	548	137	—	—	82.0	—	—	65.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.36	11.1	16.6	0.03	0.44	0.65	1.09	0.40	0.16	0.56	—	3,470	3,470	0.12	0.11	3.47	3,508
2026	11.0	11.4	18.6	0.03	0.41	0.86	1.27	0.38	0.21	0.58	—	3,809	3,809	0.14	0.11	3.91	3,850
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.73	36.1	34.0	0.05	1.60	5.34	6.94	1.47	2.68	4.15	—	5,526	5,526	0.23	0.05	0.03	5,548
2025	0.81	6.63	9.96	0.01	0.29	0.26	0.55	0.26	0.06	0.32	—	1,609	1,609	0.07	0.02	0.03	1,617
2026	11.0	11.5	17.2	0.03	0.41	0.86	1.27	0.38	0.21	0.58	—	3,718	3,718	0.11	0.11	0.10	3,755
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.28	2.63	2.81	< 0.005	0.12	0.30	0.42	0.11	0.14	0.25	—	448	448	0.02	< 0.005	0.05	449
2025	0.60	4.94	7.23	0.01	0.20	0.23	0.44	0.19	0.06	0.24	—	1,350	1,350	0.05	0.03	0.49	1,361
2026	1.67	3.86	5.85	0.01	0.14	0.23	0.38	0.13	0.06	0.19	—	1,171	1,171	0.04	0.03	0.45	1,181
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.05	0.48	0.51	< 0.005	0.02	0.06	0.08	0.02	0.03	0.05	—	74.1	74.1	< 0.005	< 0.005	0.01	74.4
2025	0.11	0.90	1.32	< 0.005	0.04	0.04	0.08	0.03	0.01	0.04	—	223	223	0.01	0.01	0.08	225
2026	0.31	0.70	1.07	< 0.005	0.03	0.04	0.07	0.02	0.01	0.03	—	194	194	0.01	0.01	0.07	196

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.36	11.1	16.6	0.03	0.44	0.65	1.09	0.40	0.16	0.56	—	3,470	3,470	0.12	0.11	3.47	3,508
2026	11.0	11.4	18.6	0.03	0.41	0.86	1.27	0.38	0.21	0.58	—	3,809	3,809	0.14	0.11	3.91	3,850
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	3.73	36.1	34.0	0.05	1.60	5.34	6.94	1.47	2.68	4.15	—	5,526	5,526	0.23	0.05	0.03	5,548
2025	0.81	6.63	9.96	0.01	0.29	0.26	0.55	0.26	0.06	0.32	—	1,609	1,609	0.07	0.02	0.03	1,617
2026	11.0	11.5	17.2	0.03	0.41	0.86	1.27	0.38	0.21	0.58	—	3,718	3,718	0.11	0.11	0.10	3,755
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.28	2.63	2.81	< 0.005	0.12	0.30	0.42	0.11	0.14	0.25	—	448	448	0.02	< 0.005	0.05	449
2025	0.60	4.94	7.23	0.01	0.20	0.23	0.44	0.19	0.06	0.24	—	1,350	1,350	0.05	0.03	0.49	1,361
2026	1.67	3.86	5.85	0.01	0.14	0.23	0.38	0.13	0.06	0.19	—	1,171	1,171	0.04	0.03	0.45	1,181
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2024	0.05	0.48	0.51	< 0.005	0.02	0.06	0.08	0.02	0.03	0.05	—	74.1	74.1	< 0.005	< 0.005	0.01	74.4
2025	0.11	0.90	1.32	< 0.005	0.04	0.04	0.08	0.03	0.01	0.04	—	223	223	0.01	0.01	0.08	225
2026	0.31	0.70	1.07	< 0.005	0.03	0.04	0.07	0.02	0.01	0.03	—	194	194	0.01	0.01	0.07	196

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	3.59	0.89	12.0	0.02	0.02	1.50	1.52	0.02	0.38	0.40	89.7	3,446	3,535	9.24	0.19	6.89	3,830
Mit.	3.59	0.89	12.0	0.02	0.02	1.50	1.52	0.02	0.38	0.40	89.7	3,445	3,535	9.24	0.19	6.89	3,829
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.83	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	89.7	3,266	3,356	9.24	0.19	0.18	3,644
Mit.	2.83	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	89.7	3,265	3,355	9.24	0.19	0.18	3,643
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.17	0.96	8.56	0.02	0.02	1.49	1.51	0.02	0.38	0.39	89.7	3,311	3,401	9.24	0.19	2.97	3,693
Mit.	3.17	0.96	8.56	0.02	0.02	1.49	1.51	0.02	0.38	0.39	89.7	3,311	3,400	9.24	0.19	2.97	3,692
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	—	—	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.58	0.18	1.56	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	14.9	548	563	1.53	0.03	0.49	611
Mit.	0.58	0.18	1.56	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	14.9	548	563	1.53	0.03	0.49	611
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	137	137	548	137	—	—	82.0	—	—	65.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Threshol	137	137	548	137	—	—	82.0	—	—	65.0	—	—	—	—	—	—	—
Unmit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Mit.	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.78	0.85	7.92	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,841	1,841	0.06	0.08	6.89	1,872
Area	2.82	0.03	4.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.9	16.9	< 0.005	< 0.005	—	17.0
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,404	1,404	0.09	0.01	—	1,409
Water	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	365
Waste	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	3.59	0.89	12.0	0.02	0.02	1.50	1.52	0.02	0.38	0.40	89.7	3,446	3,535	9.24	0.19	6.89	3,830
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.68	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,678	1,678	0.06	0.08	0.18	1,703
Area	2.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,404	1,404	0.09	0.01	—	1,409
Water	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	365
Waste	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	2.83	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	89.7	3,266	3,356	9.24	0.19	0.18	3,644
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.69	0.95	6.53	0.02	0.01	1.49	1.50	0.01	0.38	0.39	—	1,715	1,715	0.06	0.08	2.97	1,743
Area	2.47	0.02	2.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.33	8.33	< 0.005	< 0.005	—	8.36
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,404	1,404	0.09	0.01	—	1,409

Water	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	365
Waste	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	3.17	0.96	8.56	0.02	0.02	1.49	1.51	0.02	0.38	0.39	89.7	3,311	3,401	9.24	0.19	2.97	3,693
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.13	0.17	1.19	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	—	284	284	0.01	0.01	0.49	289
Area	0.45	< 0.005	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.38	1.38	< 0.005	< 0.005	—	1.38
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	232	232	0.01	< 0.005	—	233
Water	—	—	—	—	—	—	—	—	—	—	6.93	30.5	37.5	0.71	0.02	—	60.4
Waste	—	—	—	—	—	—	—	—	—	—	7.93	0.00	7.93	0.79	0.00	—	27.7
Total	0.58	0.18	1.56	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	14.9	548	563	1.53	0.03	0.49	611

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.78	0.85	7.92	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,841	1,841	0.06	0.08	6.89	1,872
Area	2.82	0.03	4.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.9	16.9	< 0.005	< 0.005	—	17.0
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,404	1,404	0.09	0.01	—	1,409
Water	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	364
Waste	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	3.59	0.89	12.0	0.02	0.02	1.50	1.52	0.02	0.38	0.40	89.7	3,445	3,535	9.24	0.19	6.89	3,829
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.68	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,678	1,678	0.06	0.08	0.18	1,703
Area	2.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,404	1,404	0.09	0.01	—	1,409

Water	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	364
Waste	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	2.83	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	89.7	3,265	3,355	9.24	0.19	0.18	3,643
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.69	0.95	6.53	0.02	0.01	1.49	1.50	0.01	0.38	0.39	—	1,715	1,715	0.06	0.08	2.97	1,743
Area	2.47	0.02	2.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.33	8.33	< 0.005	< 0.005	—	8.36
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,404	1,404	0.09	0.01	—	1,409
Water	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	364
Waste	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	3.17	0.96	8.56	0.02	0.02	1.49	1.51	0.02	0.38	0.39	89.7	3,311	3,400	9.24	0.19	2.97	3,692
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.13	0.17	1.19	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	—	284	284	0.01	0.01	0.49	289
Area	0.45	< 0.005	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.38	1.38	< 0.005	< 0.005	—	1.38
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	232	232	0.01	< 0.005	—	233
Water	—	—	—	—	—	—	—	—	—	—	6.93	30.4	37.4	0.71	0.02	—	60.3
Waste	—	—	—	—	—	—	—	—	—	—	7.93	0.00	7.93	0.79	0.00	—	27.7
Total	0.58	0.18	1.56	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	14.9	548	563	1.53	0.03	0.49	611

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.49	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.09	0.11	1.06	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	231	231	0.01	0.01	0.03	234
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.25	3.25	< 0.005	< 0.005	0.01	3.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.55
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.65	36.0	32.9	0.05	1.60	—	1.60	1.47	—	1.47	—	5,296	5,296	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite Truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.49	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	72.5	72.5	< 0.005	< 0.005	—	72.8
Dust From Material Movement	—	—	—	—	—	0.07	0.07	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Dust From Material Movement	—	—	—	—	—	0.01	0.01	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.06	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	231	231	0.01	0.01	0.03	234
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.25	3.25	< 0.005	< 0.005	0.01	3.30
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.54	0.54	< 0.005	< 0.005	< 0.005	0.55
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	18.2	18.8	0.03	0.84	—	0.84	0.77	—	0.77	—	2,958	2,958	0.12	0.02	—	2,969
Dust From Material Movement	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	2.05	2.11	< 0.005	0.09	—	0.09	0.09	—	0.09	—	332	332	0.01	< 0.005	—	333
Dust From Material Movement	—	—	—	—	—	0.21	0.21	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.37	0.39	< 0.005	0.02	—	0.02	0.02	—	0.02	—	55.0	55.0	< 0.005	< 0.005	—	55.2
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.09	0.91	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	198	198	0.01	0.01	0.02	200
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.9	22.9	< 0.005	< 0.005	0.04	23.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	0.01	3.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.90	18.2	18.8	0.03	0.84	—	0.84	0.77	—	0.77	—	2,958	2,958	0.12	0.02	—	2,969
Dust From Material Movement	—	—	—	—	—	1.84	1.84	—	0.89	0.89	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	2.05	2.11	< 0.005	0.09	—	0.09	0.09	—	0.09	—	332	332	0.01	< 0.005	—	333
Dust From Material Movement	—	—	—	—	—	0.21	0.21	—	0.10	0.10	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.37	0.39	< 0.005	0.02	—	0.02	0.02	—	0.02	—	55.0	55.0	< 0.005	< 0.005	—	55.2
Dust From Material Movement	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.09	0.91	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	198	198	0.01	0.01	0.02	200
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	22.9	22.9	< 0.005	< 0.005	0.04	23.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.79	3.79	< 0.005	< 0.005	0.01	3.84
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Phase 1 Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.25	2.29	2.86	0.01	0.09	—	0.09	0.09	—	0.09	—	526	526	0.02	< 0.005	—	527
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.42	0.52	< 0.005	0.02	—	0.02	0.02	—	0.02	—	87.0	87.0	< 0.005	< 0.005	—	87.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.19	3.30	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	579	579	0.02	0.02	2.12	588
Vendor	0.02	0.50	0.22	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	493	493	< 0.005	0.07	1.35	514
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.54	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	116	116	0.01	< 0.005	0.20	117
Vendor	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	108	108	< 0.005	0.01	0.13	113
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	0.03	19.4
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	0.02	18.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Phase 1 Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	—	0.43	0.40	—	0.40	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	2.29	2.86	0.01	0.09	—	0.09	0.09	—	0.09	—	526	526	0.02	< 0.005	—	527
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.42	0.52	< 0.005	0.02	—	0.02	0.02	—	0.02	—	87.0	87.0	< 0.005	< 0.005	—	87.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.19	3.30	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	579	579	0.02	0.02	2.12	588
Vendor	0.02	0.50	0.22	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	493	493	< 0.005	0.07	1.35	514
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.54	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	116	116	0.01	< 0.005	0.20	117
Vendor	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	108	108	< 0.005	0.01	0.13	113
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	0.03	19.4
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	17.9	17.9	< 0.005	< 0.005	0.02	18.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Phase 2 Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.46	3.23	0.01	0.09	—	0.09	0.09	—	0.09	—	598	598	0.02	< 0.005	—	600

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.45	0.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	99.0	99.0	< 0.005	< 0.005	—	99.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	3.06	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	567	567	0.02	0.02	1.92	576
Vendor	0.02	0.48	0.20	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	484	484	< 0.005	0.07	1.22	505
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.19	2.04	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	502	502	0.01	0.02	0.05	509
Vendor	0.02	0.51	0.21	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	484	484	< 0.005	0.07	0.03	504
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.57	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	< 0.005	< 0.005	0.21	131
Vendor	< 0.005	0.13	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	121	121	< 0.005	0.02	0.13	126
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.4	21.4	< 0.005	< 0.005	0.03	21.6
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Phase 2 Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	2.46	3.23	0.01	0.09	—	0.09	0.09	—	0.09	—	598	598	0.02	< 0.005	—	600
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.45	0.59	< 0.005	0.02	—	0.02	0.02	—	0.02	—	99.0	99.0	< 0.005	< 0.005	—	99.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	3.06	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	567	567	0.02	0.02	1.92	576
Vendor	0.02	0.48	0.20	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	484	484	< 0.005	0.07	1.22	505

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.19	2.04	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	502	502	0.01	0.02	0.05	509
Vendor	0.02	0.51	0.21	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	484	484	< 0.005	0.07	0.03	504
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.57	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	< 0.005	< 0.005	0.21	131
Vendor	< 0.005	0.13	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	121	121	< 0.005	0.02	0.13	126
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.10	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.4	21.4	< 0.005	< 0.005	0.03	21.6
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20.0	20.0	< 0.005	< 0.005	0.02	20.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.99	2.70	< 0.005	0.09	—	0.09	0.08	—	0.08	—	412	412	0.02	< 0.005	—	414
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.36	0.49	< 0.005	0.02	—	0.02	0.01	—	0.01	—	68.3	68.3	< 0.005	< 0.005	—	68.5
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	1.66	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	292	292	0.01	0.01	1.07	296
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.11	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	258	258	0.01	0.01	0.03	262
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.38	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	81.2	81.2	< 0.005	< 0.005	0.14	82.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.02	13.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Paving (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.71	6.52	8.84	0.01	0.29	—	0.29	0.26	—	0.26	—	1,351	1,351	0.05	0.01	—	1,355
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.99	2.70	< 0.005	0.09	—	0.09	0.08	—	0.08	—	412	412	0.02	< 0.005	—	414
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.36	0.49	< 0.005	0.02	—	0.02	0.01	—	0.01	—	68.3	68.3	< 0.005	< 0.005	—	68.5
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	1.66	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	292	292	0.01	0.01	1.07	296
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.11	1.11	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	258	258	0.01	0.01	0.03	262
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.38	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	81.2	81.2	< 0.005	< 0.005	0.14	82.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.02	13.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	6.23	8.81	0.01	0.26	—	0.26	0.24	—	0.24	—	1,350	1,350	0.05	0.01	—	1,355
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.09	1.54	< 0.005	0.05	—	0.05	0.04	—	0.04	—	235	235	0.01	< 0.005	—	236
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.20	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	38.9	38.9	< 0.005	< 0.005	—	39.1
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.03	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	253	253	< 0.005	0.01	0.03	256
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	45.4	45.4	< 0.005	< 0.005	0.07	46.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.52	7.52	< 0.005	< 0.005	0.01	7.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	6.23	8.81	0.01	0.26	—	0.26	0.24	—	0.24	—	1,350	1,350	0.05	0.01	—	1,355

Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.09	1.54	< 0.005	0.05	—	0.05	0.04	—	0.04	—	235	235	0.01	< 0.005	—	236
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.20	0.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	38.9	38.9	< 0.005	< 0.005	—	39.1
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.10	1.03	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	253	253	< 0.005	0.01	0.03	256
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.20	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	45.4	45.4	< 0.005	< 0.005	0.07	46.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.52	7.52	< 0.005	< 0.005	0.01	7.62
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Phase 2 Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	9.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	9.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.8	16.8	< 0.005	< 0.005	—	16.9

Architectural Coatings	1.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.79	2.79	< 0.005	< 0.005	—	2.80
Architectural Coatings	0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	1.23	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	227	227	0.01	0.01	0.77	230
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	0.82	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	201	201	< 0.005	0.01	0.02	203
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.1	26.1	< 0.005	< 0.005	0.04	26.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.32	4.32	< 0.005	< 0.005	0.01	4.37

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Phase 2 Architectural Coating (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	9.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	9.52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.8	16.8	< 0.005	< 0.005	—	16.9
Architectural Coatings	1.20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.79	2.79	< 0.005	< 0.005	—	2.80
Architectural Coatings	0.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	1.23	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	227	227	0.01	0.01	0.77	230
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	0.82	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	201	201	< 0.005	0.01	0.02	203
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.1	26.1	< 0.005	< 0.005	0.04	26.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.32	4.32	< 0.005	< 0.005	0.01	4.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Phase 1&2 Trenching (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.55	3.40	< 0.005	0.12	—	0.12	0.11	—	0.11	—	498	498	0.02	< 0.005	—	500
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.6	14.6	< 0.005	< 0.005	—	14.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.42	2.42	< 0.005	< 0.005	—	2.43
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.30	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	65.9	65.9	< 0.005	< 0.005	0.01	66.7

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.99	1.99	< 0.005	< 0.005	< 0.005	2.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Phase 1&2 Trenching (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	2.55	3.40	< 0.005	0.12	—	0.12	0.11	—	0.11	—	498	498	0.02	< 0.005	—	500
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.07	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.6	14.6	< 0.005	< 0.005	—	14.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.01	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.42	2.42	< 0.005	< 0.005	—	2.43
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.30	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	65.9	65.9	< 0.005	< 0.005	0.01	66.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.99	1.99	< 0.005	< 0.005	< 0.005	2.02
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.33	0.33	< 0.005	< 0.005	< 0.005	0.33
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Phase 1&2 Trenching (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.39	3.36	< 0.005	0.10	—	0.10	0.09	—	0.09	—	498	498	0.02	< 0.005	—	500
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.39	3.36	< 0.005	0.10	—	0.10	0.09	—	0.09	—	498	498	0.02	< 0.005	—	500
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.45	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.5	94.5	< 0.005	< 0.005	—	94.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.42	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	72.9	72.9	< 0.005	< 0.005	0.27	74.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.03	0.28	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	64.6	64.6	< 0.005	< 0.005	0.01	65.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.02	12.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.09	2.09	< 0.005	< 0.005	< 0.005	2.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Phase 1&2 Trenching (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.39	3.36	< 0.005	0.10	—	0.10	0.09	—	0.09	—	498	498	0.02	< 0.005	—	500
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	2.39	3.36	< 0.005	0.10	—	0.10	0.09	—	0.09	—	498	498	0.02	< 0.005	—	500
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.45	0.64	< 0.005	0.02	—	0.02	0.02	—	0.02	—	94.5	94.5	< 0.005	< 0.005	—	94.8
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.08	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15.6	15.6	< 0.005	< 0.005	—	15.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.42	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	72.9	72.9	< 0.005	< 0.005	0.27	74.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.03	0.28	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	64.6	64.6	< 0.005	< 0.005	0.01	65.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.6	12.6	< 0.005	< 0.005	0.02	12.8
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.09	2.09	< 0.005	< 0.005	< 0.005	2.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.78	0.85	7.92	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,841	1,841	0.06	0.08	6.89	1,872
Total	0.78	0.85	7.92	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,841	1,841	0.06	0.08	6.89	1,872
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.68	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,678	1,678	0.06	0.08	0.18	1,703
Total	0.68	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,678	1,678	0.06	0.08	0.18	1,703
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.13	0.17	1.19	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	—	284	284	0.01	0.01	0.49	289
Total	0.13	0.17	1.19	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	—	284	284	0.01	0.01	0.49	289

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.78	0.85	7.92	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,841	1,841	0.06	0.08	6.89	1,872
Total	0.78	0.85	7.92	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,841	1,841	0.06	0.08	6.89	1,872
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.68	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,678	1,678	0.06	0.08	0.18	1,703
Total	0.68	0.92	6.01	0.02	0.01	1.50	1.52	0.01	0.38	0.39	—	1,678	1,678	0.06	0.08	0.18	1,703
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.13	0.17	1.19	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	—	284	284	0.01	0.01	0.49	289
Total	0.13	0.17	1.19	< 0.005	< 0.005	0.27	0.27	< 0.005	0.07	0.07	—	284	284	0.01	0.01	0.49	289

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,404	1,404	0.09	0.01	—	1,409
Total	—	—	—	—	—	—	—	—	—	—	—	1,404	1,404	0.09	0.01	—	1,409
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,404	1,404	0.09	0.01	—	1,409
Total	—	—	—	—	—	—	—	—	—	—	—	1,404	1,404	0.09	0.01	—	1,409
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	232	232	0.01	< 0.005	—	233
Total	—	—	—	—	—	—	—	—	—	—	—	232	232	0.01	< 0.005	—	233

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	1,404	1,404	0.09	0.01	—	1,409
Total	—	—	—	—	—	—	—	—	—	—	—	1,404	1,404	0.09	0.01	—	1,409
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	1,404	1,404	0.09	0.01	—	1,409
Total	—	—	—	—	—	—	—	—	—	—	—	1,404	1,404	0.09	0.01	—	1,409
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	232	232	0.01	< 0.005	—	233
Total	—	—	—	—	—	—	—	—	—	—	—	232	232	0.01	< 0.005	—	233

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.67	0.03	4.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.9	16.9	< 0.005	< 0.005	—	17.0
Total	2.82	0.03	4.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.9	16.9	< 0.005	< 0.005	—	17.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.06	< 0.005	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.38	1.38	< 0.005	< 0.005	—	1.38
Total	0.45	< 0.005	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.38	1.38	< 0.005	< 0.005	—	1.38

4.3.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.67	0.03	4.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.9	16.9	< 0.005	< 0.005	—	17.0
Total	2.82	0.03	4.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	16.9	16.9	< 0.005	< 0.005	—	17.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	2.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	2.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.06	< 0.005	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.38	1.38	< 0.005	< 0.005	—	1.38
Total	0.45	< 0.005	0.37	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.38	1.38	< 0.005	< 0.005	—	1.38

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	365
Total	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	365
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	365
Total	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	365
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	6.93	30.5	37.5	0.71	0.02	—	60.4
Total	—	—	—	—	—	—	—	—	—	—	6.93	30.5	37.5	0.71	0.02	—	60.4

4.4.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	364
Total	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	364
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	364
Total	—	—	—	—	—	—	—	—	—	—	41.9	184	226	4.31	0.10	—	364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	6.93	30.4	37.4	0.71	0.02	—	60.3
Total	—	—	—	—	—	—	—	—	—	—	6.93	30.4	37.4	0.71	0.02	—	60.3

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.93	0.00	7.93	0.79	0.00	—	27.7

Total	—	—	—	—	—	—	—	—	—	—	7.93	0.00	7.93	0.79	0.00	—	27.7

4.5.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Total	—	—	—	—	—	—	—	—	—	—	47.9	0.00	47.9	4.78	0.00	—	167
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	7.93	0.00	7.93	0.79	0.00	—	27.7
Total	—	—	—	—	—	—	—	—	—	—	7.93	0.00	7.93	0.79	0.00	—	27.7

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/14/2024	10/19/2024	5.00	5.00	—
Grading	Grading	10/21/2024	12/16/2024	5.00	41.0	—
Phase 1 Building Construction	Building Construction	4/8/2025	7/28/2025	5.00	80.0	—
Phase 2 Building Construction	Building Construction	6/1/2026	10/5/2026	5.00	91.0	—
Paving	Paving	7/29/2025	3/30/2026	5.00	175	—
Phase 2 Architectural Coating	Architectural Coating	8/3/2026	10/5/2026	5.00	46.0	—
Phase 1&2 Trenching	Trenching	12/17/2024	4/7/2025	5.00	80.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Phase 1 Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Phase 1 Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Phase 1 Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Phase 1 Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Phase 2 Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Phase 2 Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Phase 2 Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Phase 2 Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

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Paving	Tractors/Loaders/Back	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Phase 2 Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Phase 1&2 Trenching	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1&2 Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Phase 1 Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Phase 1 Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Phase 1 Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Phase 1 Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Phase 1 Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37

Phase 2 Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Phase 2 Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Phase 2 Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Phase 2 Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.00	7.00	84.0	0.37
Phase 2 Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Cement and Mortar Mixers	Diesel	Average	2.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Phase 2 Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Phase 1&2 Trenching	Trenchers	Diesel	Average	1.00	8.00	40.0	0.50
Phase 1&2 Trenching	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT

Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Phase 1 Building Construction	—	—	—	—
Phase 1 Building Construction	Worker	39.7	18.5	LDA,LDT1,LDT2
Phase 1 Building Construction	Vendor	15.5	10.2	HHDT,MHDT
Phase 1 Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Phase 2 Architectural Coating	—	—	—	—
Phase 2 Architectural Coating	Worker	15.9	18.5	LDA,LDT1,LDT2
Phase 2 Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Phase 2 Architectural Coating	Hauling	0.00	20.0	HHDT
Phase 2 Architectural Coating	Onsite truck	—	—	HHDT
Phase 2 Building Construction	—	—	—	—
Phase 2 Building Construction	Worker	39.7	18.5	LDA,LDT1,LDT2
Phase 2 Building Construction	Vendor	15.5	10.2	HHDT,MHDT
Phase 2 Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 Building Construction	Onsite truck	—	—	HHDT
Phase 1&2 Trenching	—	—	—	—
Phase 1&2 Trenching	Worker	5.00	18.5	LDA,LDT1,LDT2
Phase 1&2 Trenching	Vendor	—	10.2	HHDT,MHDT

Phase 1&2 Trenching	Hauling	0.00	20.0	HHDT
Phase 1&2 Trenching	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Phase 1 Building Construction	—	—	—	—
Phase 1 Building Construction	Worker	39.7	18.5	LDA,LDT1,LDT2
Phase 1 Building Construction	Vendor	15.5	10.2	HHDT,MHDT
Phase 1 Building Construction	Hauling	0.00	20.0	HHDT
Phase 1 Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Phase 2 Architectural Coating	—	—	—	—
Phase 2 Architectural Coating	Worker	15.9	18.5	LDA,LDT1,LDT2
Phase 2 Architectural Coating	Vendor	—	10.2	HHDT,MHDT

Phase 2 Architectural Coating	Hauling	0.00	20.0	HHDT
Phase 2 Architectural Coating	Onsite truck	—	—	HHDT
Phase 2 Building Construction	—	—	—	—
Phase 2 Building Construction	Worker	39.7	18.5	LDA,LDT1,LDT2
Phase 2 Building Construction	Vendor	15.5	10.2	HHDT,MHDT
Phase 2 Building Construction	Hauling	0.00	20.0	HHDT
Phase 2 Building Construction	Onsite truck	—	—	HHDT
Phase 1&2 Trenching	—	—	—	—
Phase 1&2 Trenching	Worker	5.00	18.5	LDA,LDT1,LDT2
Phase 1&2 Trenching	Vendor	—	10.2	HHDT,MHDT
Phase 1&2 Trenching	Hauling	0.00	20.0	HHDT
Phase 1&2 Trenching	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Phase 2 Architectural Coating	0.00	0.00	141,750	47,250	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	0.00	0.00	7.50	0.00	—
Grading	0.00	0.00	15.0	0.00	—
Paving	0.00	0.00	0.00	0.00	0.23

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.23	33%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year

Unrefrigerated Warehouse-No Rail	137	137	137	49,980	2,127	2,127	2,127	776,263

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	137	137	137	49,980	2,127	2,127	2,127	776,263

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	141,750	47,250	—

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	962,994	532	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	962,994	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	21,853,125	168,696

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	21,853,125	78,373

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	88.8	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	88.8	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

Screen	Justification
Land Use	Site is 4.34 acres, buildings take 94,500sf, parking 1,710sf, other pavement takes 75,620sf (assuming pavement is 40% of total based on site plan), retention pond 9,600sf. Leaves 7,620 for landscaping.
Construction: Construction Phases	Construction plans start in Fall 2024. Assume that architectural coatings applied during latter part of building construction phase.
Construction: Paving	Planning 7,250 sf of AC and 2,675 sf of PCC
Construction: Dust From Material Movement	Site will be balanced.
Construction: Off-Road Equipment	Added equipment for trenching operations.
Operations: Vehicle Data	The proposed project would generate 137 ADT. Trip rate = 137 ADT/ 94.5 tsf = 1.449
Operations: Energy Use	The proposed project would not include natural gas. Electricity consumption was adjusted.

APPENDIX C1

BIOLOGICAL RESOURCES EVALUATION

BIOLOGICAL RESOURCES ASSESSMENT

SUN MESA (BILLINGS) MINI STORAGE PROJECT

YUCCA VALLEY, SAN BERNARDINO COUNTY, CALIFORNIA

(APN 0597-111-67-0000)

LSA

October 2025

BIOLOGICAL RESOURCES ASSESSMENT

SUN MESA (BILLINGS) MINI STORAGE PROJECT

YUCCA VALLEY, SAN BERNARDINO COUNTY, CALIFORNIA

(APN 0597-111-67-0000)

Submitted to:

Daniel R. Patneaude
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LIST OF ABBREVIATIONS AND ACRONYMS

amsl	above mean sea level
APN	Assessor's Parcel Number
BMPs	Best Management Practices
BRA	Biological Resources Assessment
BUOW	Burrowing owl (*Athene cunicularia*)
CDFW	California Department of Fish and Wildlife
CDNPA	California Desert Native Plant Act
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CNDDB	CDFW's California Natural Diversity Database
CNPS	California Native Plant Society
County	San Bernardino County
CRPR	California Rare Plant Rank
CWA	Clean Water Act
DETO	Desert tortoise (*Gopherus agassizii*)
FESA	Federal Endangered Species Act
ft	foot/feet
IPaC	USFWS' Information for Planning and Consultation
ITP	Incidental Take Permit
LSA	LSA Associates, Inc.
MBTA	Migratory Bird Treaty Act
MM	Mitigation Measure

NRCS	Natural Resources Conservation Service
project	Sun Mesa (Billings) Mini Storage Project
RWQCB	Regional Water Quality Control Board
SR-247	State Route 247
SSC	Species of Special Concern
USACE	United States Army Corps of Engineers
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WJTCA	Western Joshua Tree Conservation Act

EXECUTIVE SUMMARY

LSA Associates, Inc. (LSA) was retained by DRP Enterprises, LLC to conduct a general biological study of the approximately 4.34-acre Sun Mesa (Billings) Mini Storage Project (project) site located within Assessor's Parcel Number (APN) 0597-111-67-0000, located in the Town of Yucca Valley, San Bernardino County (County), California. The study was conducted to address compliance with the California Environmental Quality Act (CEQA), the California Endangered Species Act (CESA), and the Federal Endangered Species Act (FESA). Results of the general biological study are summarized below.

The project site contains potentially suitable habitat for burrowing owl (*Athene cunicularia hypugaea*), desert tortoise (*Gopherus agassizii*), and Crotch's bumble bee (*Bombus crotchii*). Pre-construction surveys for these species will be required to ensure any direct impacts to these species will be avoided.

The project site does provide suitable habitat for nesting birds protected under the California Fish and Game Code and the Migratory Bird Treaty Act (MBTA). It is recommended that vegetation removal be conducted between September 1 and January 15 (outside the general bird nesting season) to avoid impacts to nesting birds. If vegetation cannot be removed outside the bird nesting season, a pre-construction nesting bird survey by a qualified biologist is required 72 hours prior to vegetation removal.

There were no drainage features identified within the project site that are considered potential jurisdiction waters that may be subject to the regulatory authority of the United States Army Corps of Engineers (USACE), the California Department of Fish and Wildlife (CDFW), or the Regional Water Quality Control Board (RWQCB).

The project will apply for an incidental take permit (ITP) for western Joshua tree (*Yucca brevifolia)* under the Western Joshua Tree Conservation Act (WJTCA), a tree removal permit for Mojave yucca (*Yucca schidigera*) and California juniper (*Juniperus californica*) under Development Code Section 9.09.050 for the Town of Yucca Valley, and a permit for removal of other protected desert native plants under the California Desert Native Plant Act (CDNPA). The project will not conflict with any local policies or ordinances and is not within an adopted habitat conservation plan area. The project site does not contain wildlife corridors, nursery sites, or natural communities of concern. Additionally, standard Best Management Practices (BMPs) shall be implemented during construction activities to reduce impacts to wildlife resources in the project vicinity.

INTRODUCTION

DRP Enterprises, LLC, retained LSA to conduct a Biological Resources Assessment (BRA) for the Sun Mesa (Billings) Mini Storage Project (project) on Assessor's Parcel Numbers (APN) 0597-111-67-0000 in San Bernardino County, California (Figure 1; all figures are provided in Appendix A). The project proposes an approximately 89,700-square-foot (4.34-acre) mini storage facility and associated parking facilities.

The survey identified vegetation communities, the potential for the occurrence of special-status species, or habitats that could support special-status wildlife species, and recorded all plants and animals observed or detected within the project boundary. This BRA is designed to address the potential effects of the proposed project on designated critical habitats and/or special-status species. Information contained in this document is in accordance with accepted scientific and technical standards that are consistent with the requirements of the United States Fish and Wildlife Service (USFWS) and the CDFW. Additionally, the site was surveyed for any drainage features that would meet the definition of the waters of the United States, waters of the State, or CDFW jurisdiction.

SITE DESCRIPTION

The 4.34-acre project site is a currently undeveloped parcel within the Town of Yucca Valley, in San Bernardino County, California, as depicted on the United States Geological Survey (USGS) *Yucca Valley North, California* 7.5-minute series topographic quadrangle map in Section 13 of Township 1 North, Range 5 East, San Bernardino Baseline and Meridian (USGS 1989).

Specifically, the site is approximately 680 feet (ft) east of California State Route 247 (SR-247), located on the southeast corner of Newton Lane and Sun Mesa Drive; Figure 1 (all figures are provided in Appendix A) details the project location.

METHODS

LITERATURE REVIEW

A literature review and record search were conducted to identify the existence and potential for occurrence of sensitive or special-status plant and animal species in the project vicinity. Species occurrence records were reviewed for the following quadrangles containing and surrounding the project site: *Yucca Valley North*, *Bighorn Canyon, Landers, Goat Mountain, Rimrock, Yucca Valley South, Joshua Tree North*, and *Joshua Tree South, California,* USGS 7.5-minute quadrangles. These quadrangles were selected based on proximity and topographic and elevational similarity to the project site.

Federal and State lists of sensitive species were examined. Current electronic database records reviewed include the following.

- **California Natural Diversity Database information (CNDDB – RareFind 5)** (CDFW 2024a, 2025), which is administered by the CDFW, formerly known as the California Department of Fish and Game. This database covers sensitive plant and animal species, as well as sensitive natural communities that occur in California.

- **California Native Plant Society's (CNPS) Electronic Inventory of Rare and Endangered Vascular Plants** (CNPS 2024, 2025), which uses four specific categories or "lists" of sensitive plant species to assist with the conservation of rare or endangered botanical resources. All of the plants constituting California Rare Plant Ranks 1A, 1B, 2A, and 2B are intended to meet the status definitions of "threatened" or "endangered" in CESA and the California Fish and Game Code and are considered by CNPS to be eligible for State listing. At the discretion of the CEQA Lead Agency, impacts to these species may be analyzed as such, pursuant to *State CEQA Guidelines* Sections 15125(c) and 15380. Plants in Rank 3 (limited information; review list), Rank 4 (limited distribution; watch list), or other species that are considered Locally Unusual and Significant may be analyzed under CEQA if there is sufficient information to assess potential significant impacts.

- **United States Fish and Wildlife Service's (USFWS) Information for Planning and Consultation (IPaC) Online System** (USFWS 2024a, 2025), which lists all proposed, candidate, threatened, and endangered species managed by the Endangered Species Program of the USFWS that have the potential to occur on or near a particular site. This database also lists all known critical habitats. An IPaC Resource Report was generated for the project area.

In addition to the databases listed above, historic and current aerial imagery, existing environmental reports for developments in the project vicinity, and regional habitat conservation plans and local land use policies related to biological resources were reviewed. Wetland resources including riparian corridors were determined using the USFWS Wetlands Mapper online edition (USFWS 2024b).

SOILS

Before conducting the surveys, soil maps of the project vicinity were referenced online to determine the types of soil found within the project site. During review of the United States Department of

Agriculture (USDA) Natural Resources Conservation Service WebSoil Survey (USDA 2024), it was determined that no digital soils data were available for the project site and the surrounding areas. Soils observed on the site varied from sandy loam to loamy sand.

RECONNAISSANCE FIELD SURVEY

LSA Biologists Stanley Spencer, Christina Van Oosten, and Julia Lung conducted a general reconnaissance-level, pedestrian field survey and plant survey on May 7, 2024, between 0945 and 1150 hours. All areas within the 4.34-acre project site were surveyed on foot, and binoculars were used to aid in the identification of animal species. Notes were taken on general site conditions, vegetation, and suitability of habitat for various special-status elements. Weather conditions during the survey included temperatures ranging from 70 to 77 degrees Fahrenheit, with sunny skies, no precipitation, and 0 to 3 mile-per-hour winds.

JURISDICTIONAL FEATURES

The project site was assessed for areas that may potentially be considered jurisdictional wetlands, waters of the United States, or streambeds/habitats as defined by the USACE, RWQCB, and CDFW, respectively.

VEGETATION

All plant species observed within the project site were recorded. Vegetation communities within the project site were identified and qualitatively described. Plant communities were determined in accordance with *A Manual of California Vegetation*, Second Edition (Sawyer et al. 2009). Plant nomenclature follows that of *The Jepson Manual*, Second Edition (Baldwin et al. 2012). A comprehensive list of the plant species observed during the survey is provided in Appendix B.

The Joshua tree census survey was conducted to comply with the permitting requirements of the Western Joshua Tree Conservation Act (WJTCA) and CDFW guidelines.

WILDLIFE

All wildlife and wildlife signs observed and detected, including tracks, scat, carcasses, burrows, excavations, and vocalizations, were recorded. Additional survey time was spent in those habitats most likely to be utilized by wildlife (native vegetation, wildlife trails, etc.) or in habitats with the potential to support State- and/or Federally listed or otherwise special-status species. Notes were made on the general habitat types, species observed, and the conditions of the project site. A comprehensive list of the wildlife species observed during the survey is provided in Appendix C. Representative photographs of the project site that document existing conditions are provided in Appendix D.

RESULTS

LITERATURE REVIEW RESULTS

According to the records collected from relevant literature and databases, 32 special-status species (15 plant species and 17 animal species), 9 of which are Federally or State listed as threatened, endangered, or fully protected, or are candidates for listing, have been documented or may be expected in the project vicinity.

An analysis of the likelihood of the occurrence of these species is provided in Table A. This analysis takes into account species range as well as documentation within the vicinity of the project site and includes the habitat requirements for each species and the potential for their occurrence on the site, based on required habitat elements and range relative to the current site conditions. No USFWS-designated critical habitat occurs within or adjacent to the project site. CDFW natural communities of concern are discussed below.

EXISTING SITE CONDITIONS

Topography and Soils

The elevation of the project site ranges from approximately 3,710 to 3,726 ft above mean sea level (amsl). Review of the USDA Natural Resources Conservation Service WebSoil Survey resulted in soils within the project site and the surrounding areas as not being defined. Based on the May 7, 2024, field survey, soil types were identified as sandy loam and loamy sand.

Vegetation and Land Cover

Vegetation on the site consists of disturbed Joshua tree woodland (*Yucca brevifolia* Woodland Alliance) and was classified using *A Manual of California Vegetation*, Second Edition (Sawyer et al. 2009) (Appendix A, Figure 3). Dirt roads have been present with the current configurations since at least 1989 based on historic aerial imagery (Google Earth, 1989, 1995). Dominant vegetation within Joshua tree woodland includes western Joshua tree (*Yucca brevifolia*), Mojave yucca (*Yucca schidigera*), creosote bush (*Larrea tridentata*), Mediterranean grass (*Schismus* sp.), red brome (*Bromus ruben*), Sahara mustard (*Brassica tournefortii*), shortpod mustard (*Hirschfeldia incana*), and redstem stork's bill (*Erodium cicutarium*). No other plant communities are present on the site.

Table A: Special-Status Species Occurrence Probability

Species	Status	Habitat and Distribution	Activity Period	Occurrence Probability
Plants				
Astragalus bernardinus **San Bernardino milk-vetch**	US: – CA: 1B	Granitic or carbonate (limestone) substrates in Joshua tree woodland and pinyon and juniper woodland at 900 to 2,290 meters (2,950 to 7,500 feet) elevation. Occurs only in Riverside and San Bernardino Counties, in the San Bernardino, New York, and Ivanpah Mountains.	Blooms April through June (perennial herb)	**Not Expected:** No granitic or carbonate substrates were found on the site. Species not identified during May 2024 floristic survey.
Astragalus tricarinatus **Triple-ribbed milk-vetch**	US: FE CA: 1B	Metamorphic rock outcrops weathering into gravelly soil in semi-desert chaparral, or (probably as waifs) at the edges of boulder-strewn desert washes and adjacent slopes in rocky incised canyons in Joshua tree woodland and Sonoran Desert scrub; known from west edge of desert at 450 to 1,200 meters (1,500 to 3,900 feet) elevation in Riverside and extreme southern San Bernardino Counties.	Blooms February through May (perennial herb)	**Not Expected:** No metamorphic rock outcrops or other habitat features on site. Species not identified during May 2024 floristic survey.
Berberis fremontii **Fremont barberry**	US: – CA: 2B	Rocky sites in chaparral, Joshua tree, pinyon and juniper woodland at elevations of 840 to 1,850 meters (2,750 to 6,070 feet).	Blooms April through June (perennial evergreen shrub)	**Not Expected:** No rocky areas on site. Species not identified during May 2024 floristic survey.
Boechera dispar **Pinyon rock cress**	US: – CA: 2B	Granitic, gravelly slopes and mesas in Joshua tree woodland, pinyon-juniper woodland, and Mojave Desert scrub at 1,200 to 2,400 meters (4,000 to 7,900 feet) elevation. In California, known from Inyo, Mono, San Bernardino, and Tulare Counties.	Blooms March through June (perennial herb)	**Not Expected:** No granitic, gravelly slopes on site. Species not identified during May 2024 floristic survey.
Boechera shockleyi **Shockley's rock cress**	US: – CA: 2B	Limestone or quartzite on ridges, rocky outcrops, or in openings in pinyon-juniper woodland at 875 to 2,205 meters (2,900 to 7,200 feet) in elevation. In California, known only from Inyo and San Bernardino counties.	Blooms May through June (perennial herb)	**Not Expected:** No suitable habitat on ridges, rocky outcrops, or pinyon-juniper woodland on site. Species not identified during May 2024 floristic survey.
Calochortus palmeri var. *palmeri* **Palmer's mariposa-lily**	US: – CA: 1B	Mesic sites in chaparral and lower montane coniferous forest at 600 to 2,400 meters (2,000 to 7,900 feet) in elevation. Known from Riverside, San Bernardino, Santa Barbara, Los Angeles, Ventura, Kern, and San Luis Obispo counties.	Blooms April through July (perennial herb)	**Not Expected:** No mesic areas, chaparral, or coniferous forest on site. Species not identified during May 2024 floristic survey.

Cymopterus multinervatus **Purple-nerve cymopterus**	US: – CA: 2B	Sandy or gravelly slopes, rocky outcrops, along ridges in Mojavean desert scrub and pinyon and juniper woodland at 765 to 2,195 meters (2,500 to 7,200 feet) in elevation. In California, known only from Inyo, Riverside, and San Bernardino counties. Also occurs in Arizona, Nevada, New Mexico, Texas, Utah, and Mexico.	Blooms March through April (perennial herb)	**Not Expected:** Site is outside the known range of this species. Nearest location is a 1978 collection about 12 miles north of the project site at the south end of its known range. Species not identified during May 2024 floristic survey; would have been detectable as a perennial even if past flower.
Erigeron parishii **Parish's daisy**	US: FT CA: 1B	Generally found on or near carbonates (e.g. limestone); usually on steep rocky slopes, or in washes or on adjacent benches in canyons; usually in pinyon woodland, pinyon-juniper woodland, or blackbrush scrub at 800 to 2,000 meters (2,600 to 6,600 feet) in elevation (usually above 3,600 feet). Known only from San Bernardino and Riverside counties.	Blooms May through June (perennial herb)	**Not Expected:** Site is outside the known range of this species, which occurs in mountainous areas to the west. No carbonates or other suitable habitat areas on site.
Grusonia parishii **Parish's club-cholla**	US: – CA: 2B	Sandy or rocky areas in Mojavean desert scrub, Sonoran desert scrub, Joshua tree woodland at 300 to 1,524 meters (985 to 5,000 feet) in elevation. In California, known only from Riverside and San Bernardino counties. Also occurs in Arizona, Nevada, and possibly Texas.	Blooms May through June or July (perennial stem succulent)	**Not expected:** Site is outside the known range of this species. Nearest locations are 1932 collections from about 7 miles southeast of the site. Species not identified during May 2024 floristic survey; readily detected year-round.
Linanthus bernardinus **Pioneertown linanthus**	US: – CA: 1B	Joshua tree woodland and pinyon and juniper woodland at 1,120 to 1,345 meters (3,670 –4,410 feet). Known only from the Sawtooth Range in San Bernardino County.	Blooms March through May (annual herb)	**Not Expected:** Project site is outside the known range of this species (Sawtooth Mountains). Not identified during May 2024 floristic survey.
Linanthus maculatus ssp. *maculatus* (*Gilia maculata*) **Little San Bernardino Mountains linanthus**	US: – CA: 1B	Loose, well-aerated sand on wash-margin benches with few or no competing species and void of large shrubs or trees, in areas of desert dune, desert scrub, and Joshua tree woodland at 195 to 2,075 meters (600 to 6,800 feet) elevation. Loosely associated shrubs include creosote bush (Larrea tridentata), brittle bush (Encelia farinosa), burro bush (Ambrosia dumosa), cheesebush (Hymenoclea salsola) and desert catalpa (Chilopsis linearis). Not found in loose sands away from washes, nor in dense stands of weedy annuals. Known only from Riverside and San Bernardino Counties. Known only from edges of washes associated with the San Bernardino	Blooms March through May (annual herb)	**Not Expected:** No wash margin benches on site. Not identified during May 2024 floristic survey.

		Mountains (north and east sides), the Little San Bernardino Mountains, and the northern part of the Coachella Valley.		
Monardella robisonii **Robinson's monardella**	US: – CA: 1B	Rocky, granitic slopes often among boulders in pinyon-juniper woodland and Joshua tree woodland at 610 to 1,525 meters (2,000 to 5,000 feet) elevation. In California, known only from the immediate vicinity of the Little San Bernardino Mountains in Riverside and San Bernardino Counties.	Blooms in April through October (perennial herb)	**Not Expected:** No rocky, granitic slopes on site. Not identified during May 2024 floristic survey.
Penstemon clevelandii var. *mohavensis* **Mohave beardtongue**	US: – CA: 1B	Rocky, often granitic areas in Mojavean desert scrub and pinyon and juniper woodland at 925 to 1,620 meters (3035 to 5,315 feet) in elevation. Known only from Riverside and San Bernardino Counties, California.	Blooms March through May (perennial herb)	**Not expected:** No rocky areas on site. Not identified during May 2024 floristic survey.
Saltugilia latimeri **Latimer's woodland gilia**	US: – CA: 1B	Dry desert slopes of coarse sandy to rocky soils in chaparral and Mojavean desert scrub at 400 to 1,900 meters (1,300 to 6,200 feet) elevation.	Blooms March through June (annual herb)	**Not Expected:** No slopes with coarse sandy to rocky soils on site. Not identified during May 2024 floristic survey.
Yucca brevifolia **Western Joshua tree**	US: – CA: SCT/SCE	Various plant communities from Sonoran Desert scrub to yellow pine forest in desert and desert edge areas (up to about 6,600 feet elevation in California). In California, known from Kern, San Bernardino, Los Angeles, Riverside, Inyo, and Mono Counties. Also occurs in Nevada, Utah, and Arizona.	Blooms March through June (perennial evergreen tree)	**Present:** Project site contains 98 individual trees.
Insects				
Danaus plexippus plexippus pop. 1 **Monarch butterfly (California overwintering population)**	US: FPT CA: SA	Overwintering habitat is located in wind-protected tree groves (eucalyptus, Monterey pine, Monterey cypress) with nectar and water sources nearby. The majority of the overwintering habitat sites are located within 1.5 miles of the Pacific Ocean or San Francisco Bay. Sites are typically found at low elevations (200 to 300 feet) and situated on slopes oriented to the south, southwest or west, or in shallow canyons or gullies. The sites need to have dappled sunlight, high humidity, fresh water, and an absence of freezing temps or high winds. Monarchs breed only where milkweeds are found. They forage on a wide variety of flowers.	September through March at overwintering sites	**No wintering or breeding habitat present.** Monarch may move through the site during migration or occasionally forage on the site comparable to its use of desert and urban ornamental vegetation throughout the region.

Bombus crotchii **Crotch's bumble bee**	US: – CA: SCE	Inhabits open scrub (including chaparral) and grassland with high floral diversity from coastal California to the crest of Sierra-Cascade and in desert edge areas, south into Mexico. Suitable bumble bee habitat requires the continuous availability of sufficient flowers suitable for foraging to sustain the colony throughout its duration (spring through summer), as well as sites suitable for colony nesting and for overwintering of the new queens. Preferred foraging plants of this species include milkweeds (*Asclepias* spp.), phacelias (*Phacelia* spp.), sages (*Salvia* spp.), vetches (*Vicia* spp.), deerweed (*Acmispon glaber*), lupines (*Lupinus* spp.), and poppies (*Eschscholzia spp.*) (Robert Thorpe et al, 1983, *Bumble Bees and Cuckoo Bumble Bees of California*). Nests underground in abandoned rodent burrows but may also nest in other cavities such as rock piles, fallen logs, or thatched grasses (California Department of Fish and Wildlife, *Survey Considerations for California Endangered Species Act [CESA] Candidate Bumble Bee Species)*. Overwintering is poorly understood but likely includes sloping areas insulated with leaf litter under trees or large shrubs (*ibid*.).	Spring and summer	**Low.** This species occurs infrequently in the desert but habitat appears potentially suitable.
Paranomada californica **California cuckoo bee**	US: – CA: SA	Parasitic on other bees. Occurs within desert scrub, but habitat requirements are unknown. The California Natural Diversity Database (CNDDB) has only two occurrence records for this species: a 1971 record from near Pioneertown, San Bernardino County, and a 1944 record from the vicinity of Yucca Valley, San Bernardino County.	Spring and summer	**Not exptected.** There are no recent records of this species in the region and habitat on the site is unexceptional compared with the overall desert habitat in the region.
Reptiles				

Anniella stebbinsi **Southern California legless lizard**	US: – CA: SSC	Inhabits sandy or loose loamy soils with high moisture content under sparse vegetation. Found primarily in cismontane southern California from Santa Barbara County to northwestern Baja California, with a few outlying populations in the deserts of southern California.	Nearly year round, at least in southern areas	**Not expected.** No areas with moist, loose soil on site.
Crotalus ruber **Red diamond rattlesnake**	US: – CA: SSC	Desert scrub, thornscrub, open chaparral and woodland; occasional in grassland and cultivated areas. Prefers rocky areas and dense vegetation. Morongo Valley in San Bernardino and Riverside counties to the west and south into Baja California.	Primarily Mid-spring through mid-fall	**Not expected.** Site is outside the expected range of this species and lacks rocky habitat.
Gopherus agassizii **Desert tortoise**	US: FT CA: ST	Historically found throughout most of the Mojave and Sonoran Deserts into Arizona, Nevada, and Utah. Believed to have been extirpated from the western and southern portions of the Antelope Valley. Found in creosote bush scrub, saltbush scrub, thornscrub (in Mexico), and Joshua tree woodland. Found in the open desert as well as in oases, riverbanks, washes, dunes, and occasionally rocky slopes.	Spring, and again in early fall in areas of summer rains, with brief periods of activity at other times	**Low:** Suitable habitat is present within the project site. However, no suitable burrows or sign of this species occurred on site during the May 2024 field survey. Two CNDDB records occur approximately 2 miles southwest of the project site, west of SR-247.
Phrynosoma blainvillii (coronatum) **Coast horned lizard**	US: – CA: SSC	Primarily in sandy soil in open areas, especially washes and floodplains, in many plant communities. Requires open areas for sunning, bushes for cover, patches of loose soil for burial, and an abundant supply of ants or other insects. Occurs west of the deserts from northern Baja California north to Shasta County below 2,400 meters (8,000 feet) in elevation.	Primarily April through July with reduced activity August through October	**Low to Moderate:** This species was not observed during any of the site visits, but portions of the site may be suitable.
Uma scoparia **Mojave fringe-toed lizard**	US: – CA: SSC	Requires fine wind-blown sand, generally in relatively sparse creosote scrub on loose sand dunes with sand grains <0.5 mm. Not present where sand is too firm for sand swimming; and washes and desert flats are generally unsuitable. Patchily distributed in Mojave Desert areas of Los Angeles, Riverside, and San Bernardino counties. Also occurs in Arizona.	March to October (breeding April to July)	**Not expected:** Site lacks dunes or similar habitat.
Birds				
Athene cunicularia (burrow sites)	US: – CA: SSC/SCT/SCE	Open country in much of North and South America. Usually occupies ground squirrel burrows in open, dry grasslands, agricultural and range lands, railroad	Year-round	**Low:** Suitable habitat is present within the project site. Species is common in the area. However, during the time of

Burrowing owl		rights-of-way, and margins of highways, golf courses, and airports. Often utilizes man-made structures, such as earthen berms, cement culverts, cement, asphalt, rock, or wood debris piles. They avoid thick, tall vegetation, brush, and trees, but may occur in areas where brush or tree cover is less than 30 percent.		the May 2024 field survey the project site was highly vegetated with no suitable burrows or sign of this species. One CNDDB record occurs approximately 6.5 miles east of the project site.
Lanius ludovicianus (nesting) **Loggerhead shrike**	US: – CA: SSC (breeding)	Prefers open habitats with scattered small trees and with fences, utility lines, or other perches. Inhabits open country with short vegetation, pastures, old orchards, cemeteries, golf courses, riparian areas, and open woodlands. Highest density occurs in open-canopied valley foothill hardwood, valley foothill hardwood-conifer, valley foothill riparian, pinyon-juniper, juniper, desert riparian, and Joshua tree habitats. Occurs only rarely in heavily urbanized areas, but often found in open cropland. Found in open country in much of North America.	Year-round	**Present:** Adults and fledglings were observed adjacent to the project site during the May 2024 field survey.
Setophagia petechia (nesting) **Yellow warbler**	US: – CA: SSC (breeding)	Nests primarily in riparian woodland. More widespread in brushy habitats, woodland, and forest during migration and in winter. Nests across much of North America from Alaska and Northwest Territories to central Mexico. Winters primarily from Mexico to northern South America.	April through September, rare in winter.	**Not expected:** No riparian habitat on site.
Toxostoma bendirei **Bendire's thrasher**	US: BCC CA: SSC (breeding)	Inhabits Joshua tree woodland with scattered desert shrubs such as creosote bush and sweet bush. Also occurs in the eastern Mojave in areas with plentiful cholla (*Cylindropuntia* spp.) (Garret and Dunn 1981). Common summer resident in Joshua Tree National Monument (Remsen 1978).	April through September, rare in winter.	**Low:** Habitat (Joshua tree woodland) present with the project site may be suitable. Species not detected during May 2024 field survey. There are two CNDDB records of observations of this species in 1991 from approximately 12 miles north northwest of the project site.
Toxostoma lecontei	US: BCC CA: SSC	Inhabits sparsely vegetated desert flats, dunes, alluvial fans, or gently rolling hills having a high proportion of saltbush (Atriplex spp.) or cholla (Cylindropuntia spp.), often occurring along small washes or sand dunes. Prefers dense thorny shrubs (most often saltbush or cholla) for nesting. Uncommon and local resident in low desert scrub throughout most of the Mojave Desert, extending up	Year-round	**Low:** Suitable habitat (desert scrub) present with the project site may be suitable. Species not detected during May 2024 field survey. Two CNDDB records occur approximately 2 miles west and north of the project site.

		into the southwestern corner of the San Joaquin Valley. Breeding range in California extends from these areas into eastern Mojave, north into the Owens Valley and south into the lower Colorado Desert and eastern Mojave. Only the San Joaquin Valley population of this species is considered a BLM Sensitive species or California Species of Concern.		
Vireo bellii pusillus **Least Bell's vireo**	US: FE CA: SE	Riparian forests and willow thickets. The most critical structural component of Least Bell's Vireo habitat in California is a dense shrub layer 2 to 10 feet (0.6–3.0 meter) above ground. Willows usually dominant. Nests from central California to northern Baja California Sur. Winters primarily in Baja California Sur.	March through September	**Not expected:** No riparian habitat on site.
Mammals				
Lasiurus xanthinus **Western yellow bat**	US: – CA: SSC	Found mostly in desert and desert riparian areas of the southwest US, but also expanding its range with the increased usage of native and non-native ornamental palms in landscaping. Individuals typically roost amid dead fronds of palms but have also been documented roosting in cottonwood trees. Forage over many habitats.	Year-round; nocturnal	**Not expected**: No palms or other typical roosting habitat on site; may occasionally forage over site.
Ovis canadensis nelsoni (excluding peninsular Distinct Population Segment) **Desert bighorn sheep**	US: – CA: CFP (except rams when hunting is authorized) BLM: S	Occurs in open, rocky, steep areas with available water and herbaceous forage; widely distributed from the White Mountains in Mono County to the Chocolate Mountains in Imperial County.	Year-round	**Not expected**: No rocky, steep habitat areas on site.

Taxidea taxus **American badger**	US: – CA: SSC	Primary habitat requirements seem to be sufficient food and friable soils in relatively open uncultivated ground in grasslands, woodlands, and desert. Widely distributed in North America.	Year-round	**Not expected:** Marginally suitable (friable soils) habitat is present on site. However, no suitable burrows or sign for this species were detected during the May 2024 field survey. Site is small and not expected to provide enough food. One CNDDB record occurs approximately 7 miles west of the project site, west of SR-247.

Source: Compiled by LSA (2024).
US: Federal Classifications
FE Listed as Endangered.
FT Listed as Threatened.
FPE Proposed for listing as Endangered.
FPT Proposed for listing as Threatened.
FPD Proposed for delisting.
FC Candidate for listing as Threatened or Endangered.
BCC Bird of Conservation Concern
CA: State Classifications
SE State-listed as Endangered.
ST State-listed as Threatened.
SR State-listed as Rare.
SCE Candidate for State-listing as Endangered.
SCT Candidate for State-listing as Threatened.
SC Candidate for State-listing as Threatened or Endangered.
SSC Species of Special Concern. Refers to animals with vulnerable or seriously declining populations.
CFP California Fully Protected. Refers to animals protected from take under Fish and Game Code sections 3511, 4700, 5050, and 5515.
SA Special Animal. Refers to any other animal monitored by the Natural Diversity Data Base, regardless of its legal or rarity status.
1A California Rare Plant Rank 1A – presumed extinct in California.
1B California Rare Plant Rank 1B – rare, threatened or endangered in California and elsewhere.
2B California Rare Plant Rank 2B – rare, threatened or endangered in California, but more common elsewhere.
3 California Rare Plant Rank 3 – a review list of plants about which more information is needed.
4 California Rare Plant Rank 4 – a watch list of plants of limited distribution.
MSHCP: Western Riverside County MSHCP Status
C Species is covered and adequately conserved under the MSHCP.
S Species is covered and adequately conserved under the MSHCP, but surveys are required within indicated habitats and/or survey areas.
P Species is covered and will be adequately conserved when MSHCP specified requirements are met.
CNDDB = California Natural Diversity Database

A census of Joshua trees was conducted on November 1, 2023, by LSA biologists Stan Spencer, Christina Van Oosten, and Eva Newby. The census survey resulted in a total of 98 Joshua trees present within the site and buffer area (Appendix E). A total of 35 vascular plant species were identified within the project site during the May 7, 2024, field survey. Appendix F can be referenced for the findings of the spring plant survey. See Appendix B for a complete list of plant species observed on site.

Wetlands and Other Jurisdictional Waters

The USACE, under Section 404 of the Federal Clean Water Act (CWA), regulates discharges of dredged or fill material into "waters of the United States." These waters include wetlands and non-wetland bodies of water that meet specific criteria, including a connection to interstate commerce. This connection may be direct (through a tributary system linking a stream channel with traditional navigable waters used in interstate or foreign commerce) or it may be indirect (through a connection identified in USACE regulations). The USACE typically regulates as non-wetland waters of the United States any body of water displaying an "ordinary high water mark." To be considered a "jurisdictional wetland" under Section 404, an area must possess hydrophytic vegetation, hydric soils, and wetland hydrology. The CDFW, under Sections 1600 et seq. of the California Fish and Game Code, regulates alterations to lakes, rivers, and streams. A stream is defined by the presence of a bed, channel, and banks and at least an occasional flow of water. The RWQCB is responsible for the administration of Section 401 of the CWA through water quality certification of any activity that may result in a discharge to jurisdictional waters of the United States. The RWQCB may also regulate discharges to "waters of the State," including wetlands, under the California Porter-Cologne Water Quality Control Act.

No drainage features, ponded areas, wetlands, or riparian habitat subject to jurisdiction by the CDFW, USACE, and/or RWQCB were found within the project site. Neither CWA Section 404 and 401 permits nor a CDFW Streambed Alteration Agreement is necessary. The findings represent the professional opinion of LSA and are subject to verification by the regulatory agencies.

Wildlife

The abundant Joshua trees and yucca within the project site are considered potential habitat for some native wildlife species, especially birds. There are many trees on the project site that could significantly contribute to nesting, and could be directly impacted by the proposed development. A total of 9 wildlife species were observed in (or foraging over) the project parcel during the May 2024 general field survey: California quail *(Callipepla californica),* mourning dove *(zenaida macroura),* turkey vulture *(Cathartes aura),* loggerhead shrike *(Lanius ludovicianus),* common raven *(Corvus corax),* house sparrow *(Passer domesticus),* house finch *(Haemorhous mexicanus),* San Diegan tiger whiptail *(Aspidoscelis tigris stejnegeri),* desert cottontail *(Sylvilagus audubonii).* Other common desert wildlife species of the region are also expected to occur on site. One special-status species, loggerhead shrike, was observed during the field survey.

Special-Status Species

This section discusses special-status species potentially occurring within the limits of the project site. Legal protection for special-status species varies widely, from the comprehensive protection

extended to listed threatened/endangered species to no legal status at present. The CDFW, USFWS, local agencies, and special-status groups such as CNPS publish watch lists of declining species.

The special-status species analysis in Table A includes species that are listed as threatened or endangered by the State or Federal government or fully protected by the State, candidates for State and/or ederal listing, and other species considered rare, threatened, or endangered by CDFW or CNPS, including animals designated by CDFW as California Species of Special Concern and other species that are unique to a region or listed as of concern by a local jurisdiction. Inclusion of species described in the special-status species analysis is based on the following criteria:

- Direct observation of the species or its sign on the project site or immediate vicinity during previous biological studies;
- Sighting by other qualified observers;
- Records reported by the CNDDB and published by the CDFW;
- Presence or location information for specific species provided by private groups (e.g., CNPS); and
- Project site lies within known distribution of a given species and contains appropriate habitat.

Table A summarizes special-status species known to occur in the region.

Threatened and Endangered Species

Under provisions of Section 7(a)(2) of the FESA, a Federal agency that permits, licenses, funds, or otherwise authorizes a project activity must consult with the USFWS to ensure that its actions would not jeopardize the continued existence of any listed threatened or endangered species or destroy or adversely modify critical habitat. The USFWS designates as threatened or endangered species that are at risk of extinction and may also adopt recovery plans that identify specific areas that are essential to the conservation of a listed species. Critical habitat areas that may require special management considerations or protections can also be designated.

The CESA is administered by the CDFW and prohibits the "take" of plant and animal species identified as either threatened, endangered, or candidates for listing in the State of California by the Fish and Game Commission (Fish and Game Code Sections 2050 to 2097). "Take" is defined as to hunt, pursue, catch, capture, or kill. Sections 2091 and 2081 of CESA allow the CDFW to authorize exceptions to the prohibition of "take" for purposes such as public and private development. The CDFW requires formal consultation to ensure that a proposed project's actions would not jeopardize the continued existence of any listed species or destroy or adversely affect listed species' habitats.

As identified in Table A, the following Federally/State-listed species or candidates for state listing have the potential to occur on the project site based on the literature review:

- Triple-ribbed milk-vetch (*Astragalus tricarinatus*): Federally listed as endangered, California Rare Plant Rank (CRPR) 1B;

- Parish's daisy (Erigeron parishii): Federally listed as threatened, CRPR 1B;
- Western Joshua tree: State candidate for listing as threatened or endangered;
- Monarch butterfly (*Danaus plexippus plexipus*, western population): Federally proposed for listing as threatened;
- Crotch's bumble bee (Bombus crotchii): State Candidate for listing as endangered;
- Desert tortoise (*Gopherus agassizii*, [DETO]): Federally and State-listed as threatened;
- Burrowing owl (*Athene cunicularia*, [BUOW]): State Candidate for listing as threatened or endangered, California Species of Special Concern (SSC);
- Least Bell's vireo (Vireo bellii pusillus): Federally and State-listed as endangered; and
- Desert bighorn sheep (*Ovis canadensis nelsonii*): State-listed as fully protected.

The project site may provide low quality habitat for desert tortoise, Crotch's bumble bee, or burrowing owl. Monarch butterfly may move through the site for migration or occasionally forage on the site, but the site does not have wintering or breeding habitat, and potential use for foraging would not be expected to exceed that of the overall desert or urban areas in the region; therefore, no substantial impacts to this species by the project are expected. Triple-ribbed milk-vetch, Parish's daisy, least Bell's vireo, and desert bighorn sheep are not expected based on lack of suitable habitat, while western Joshua tree is known to be present.

Non-Listed Special-Status Species

The other, non-listed, special-status plant species identified and discussed in Table A are not expected to occur on the project site based on habitat quality or geographic location, and none were observed during the floristic survey on May 7, 2024.

Three wildlife species, coast horned lizard (*Phrynosoma blainvillii*), Bendire's thrasher (*Toxostoma bendirei*) and Le Conte's thrasher (*Toxostoma lecontei*), have a low to moderate potential of occurring on site. One special-status bird species, loggerhead shrike, was observed during the field survey. None of the other non-listed special-status species are expected to occur on the site. The project site has suitable vegetation that could support nesting birds.

Natural Communities of Concern

Riparian habitats, oak woodlands, and vernal pools are among some of the natural communities of interest to the CDFW. In addition, CDFW maintains a list of natural communities occurring in the State and identifies those that are sensitive as having ranks of S1–S3.

The CDFW CNDDB database search did not list any communities of concern occurring within the project site or its immediate surroundings. The western Joshua tree census survey, conducted on November 1, 2023, noted the occurrence of disturbed Joshua tree woodland within the entirety of

the project site. Joshua tree woodland has a rank of S3, Vulnerable. The habitat within the project site contains a mostly non-native understory and is dominated by western Joshua tree. Refer to Appendix E Joshua Tree Report. This habitat will be directly impacted by project activities taking place within the site. No other natural communities of concern, including those that have a State rank of S1-S3, are present within the site.

IMPACT FINDINGS

VEGETATION AND HABITAT IMPACTS

The project would result in direct impacts to native habitats and/or sensitive natural communities in the form of Joshua tree woodland. This species is discussed below.

THREATENED AND ENDANGERED SPECIES

One State-listed species, western Joshua tree, was observed during the November 1, 2023, field survey. Two Federal and/or State-listed animal species have a low potential of occurrence on the project site.-No other listed plant or animal species were observed during the site surveys.

Western Joshua Tree

Direct impacts to western Joshua tree are expected with project implementation. Western Joshua tree is known to commonly occur within the general project vicinity. The Joshua tree census conducted on November 1, 2023, resulted in 98 individual trees within the project site and the buffer area. LSA recommends the following impact avoidance measure:

- **Joshua Tree Incidental Take Permit.** An incidental take permit (ITP) application under the Western Joshua Tree Conservation Act (WJTCA) shall be submitted to and approved by the California Department of Fish and Wildlife (CDFW) for any unavoidable impacts to western Joshua tree (*Yucca brevifolia*), prior to the onset of construction activities.

Desert Tortoise

The project site is within the range of DETO. Direct impacts to desert tortoise may occur with project implementation. No DETO, their sign, or suitable burrows were observed during the November 1, 2023 or May 7, 2024 site visits; however, focused surveys for this species were not conducted. LSA recommends the following impact avoidance measure:

- **Desert Tortoise Survey.** Prior to any vegetation or ground disturbance activities, surveys shall be conducted for the species according to the United States Fish and Wildlife's (USFWS) 2019 *Preparing for Any Action That May Occur Within the Range of the Mojave Desert Tortoise* (*Gopherus agassizii*) (USFWS 2019b). Should there be positive survey results, a Federal incidental take permit under Section 10 of FESA and State incidental take permit under Section 2081 of the Fish and Game Code would be required.

Crotch's Bumble Bee

The project site is within the range of Crotch's bumble bee, although this species occurs relatively infrequently in desert areas. Direct impacts to this may occur with project implementation. LSA recommends the following impact avoidance measure:

- **Crotch's Bumble Bee Survey:** To avoid impacts to Crotch's bumble bee, prior to vegetation removal or issuance of a grading permit, a qualified biologist shall conduct a focused Crotch's

bumble bee surveys to determine the presence or absence of Crotch's bumble bee within the proposed area of disturbance. The surveys shall consist of three separate visits spaced two to four weeks apart. The pre-construction survey shall be conducted between April 1 and June 15, early in the colony active period, prior to the issuance of the grading permit and within one year prior to the initiation of project activities (including removal of vegetation). The survey shall be conducted by a qualified biologist meeting the qualifications discussed in the California Department of Fish and Wildlife (CDFW) guidance (i.e., *Survey Considerations for California Endangered Species Act Candidate Bumble Bee Species*, dated June 6, 2023) with a memorandum of understanding for Crotch's bumble bee surveys. The survey shall consist of photographic surveys conducted in accordance with the CDFW guidance. The qualified biologist shall send all photographic vouchers to a CDFW-approved taxonomist to confirm the identifications of the bumble bees encountered during surveys. Survey results will be considered valid until the start of the next colony active period (April 1 of the following year). The results of the pre-construction survey shall be submitted to the City. Survey data shall also be submitted by the qualified biologist to the California Natural Diversity Database, as applicable, in accordance with the requirements of the biologist's memorandum of understanding and scientific collecting permit with CDFW. If pre-construction surveys identify Crotch's bumble bee individuals on-site, the qualified biologist or project proponant shall notify and consult with CDFW to determine whether project activities would result in impacts to Crotch's bumble bee, in which case, an Incidental Take Permit may be required. If an Incidental Take Permit is required, it shall be obtained prior to issuance of the grading permit.

Burrowing Owl

Direct impacts to BUOW may occur with project implementation. BUOW is known to commonly occur within the general project vicinity. No BUOW, their sign, or suitable burrows were observed during the November 1, 2023 or May 7, 2024 site visits; however, focused surveys for this species and potential burrows were not conducted. At the time of the May 2024 survey, the Joshua tree woodland had a highly vegetated understory that may deter BUOW. LSA recommends the following impact avoidance measure:

- **Pre-Construction Presence/Absence Survey:** A burrowing owl take avoidance survey shall be performed by a qualified biologist not more than 14 days prior to any site disturbance (grubbing, grading, and construction) in accordance with California Department of Fish and Wildlife (CDFW) guidelines (*Staff Report on Burrowing Owl Mitigation,* March 7, 2012). If an occupied burrow is found (as indicated by the observation of a burrowing owl or the presence of burrowing owl sign), a 250-foot buffer around the burrow will be staked and flagged and no construction activities will be allowed within the buffer area during the breeding season (February 1 through August 31). If the burrow is within the project disturbance area, CDFW will be consulted to coordinate relocation of the owl in accordance with accepted protocols. Work on the site will be stopped until CDFW issues an Incidental Take Permit, or other resolution is determined. Non-Listed Special-Status Species

One non-listed animal species, loggerhead shrike, was observed during the May 7, 2024, field survey and is considered present. Three non-listed animal species, Le Conte's thrasher, Bendire's thrasher, and coast horned lizard, have a low (for Bendire's and Le Conte's thrashers) or low to moderate (for

coast horned lizard) potential of occurring within the project site. Given that these species are not listed as threatened or endangered and are widespread, and that the project size is relatively small, the project would not result in substantial impacts to these species. No other non-listed plant or animal species were observed during the site surveys nor are they anticipated to be adversely affected by the project.

Nesting Birds

Nesting birds protected by the MBTA and California Fish and Game Code may occur on site (potentially including Bendire's thrasher, Le Conte's thrasher and loggerhead shrike) and may be directly affected without avoidance and minimization measures. With successful implementation of the measures described below, impacts to nesting birds would be avoided, and no additional avoidance or minimization measures are warranted. LSA recommends the following impact avoidance measure:

- **Pre-Construction Nesting Bird Survey.** To ensure compliance with California Fish and Game Code and the Migratory Bird Treaty Act (MBTA) and to avoid potential impacts to nesting birds, vegetation removal activities shall be conducted outside the general bird nesting season (January 15 through August 31). Any vegetation removal and/or construction activities that occur during the nesting season will require that all suitable habitats be thoroughly surveyed for the presence of nesting birds by a qualified biologist. Prior to commencement of clearing, a qualified biologist shall conduct a pre-construction survey within 3 days prior to ground-disturbing activities. Should nesting birds be found, an exclusionary buffer will be established by the qualified biologist. The buffer may be up to 500 feet in diameter, depending on the species of nesting bird found. This buffer will be clearly marked in the field by construction personnel under guidance of the qualified biologist, and construction or clearing will not be conducted within this zone until the qualified biologist determines that the young have fledged or the nest is no longer active. The buffer may be modified and/or other recommendations proposed as determined appropriate by the biologist to minimize impacts. Nesting bird habitat within the project site will be resurveyed during bird breeding season if there is a lapse in construction activities longer than 7 days.

WILDLIFE MOVEMENT

Wildlife movement includes seasonal migration along corridors and daily movements for foraging. Migration corridors may include areas of unobstructed movement of deer, riparian corridors providing cover for migrating birds, routes between breeding waters and upland habitat for amphibians, and areas between roosting and feeding areas for birds.

The project site does not contain any essential connectivity areas, natural landscape blocks, natural areas small, or potential riparian connections, as documented in the California Essential Habitat Connectivity Project report (Spencer et al. 2010).

The project site is adjacent to existing commercial development and SR-247 that already restricts wildlife movement to the west and south in the project vicinity. The majority of wildlife movement within the project site is anticipated to be limited to wildlife present on site or within an adjacent

vacant lot to the east and north. The noise, vibration, light, dust, or human disturbance within construction areas would only temporarily deter wildlife from using areas in the immediate vicinity of construction activities. These indirect effects could temporarily alter migration behaviors, territories, or foraging habitats in select areas. However, because these are temporary effects, it is likely that wildlife already living and moving close to urban development would alter their normal functions for the duration of the project construction and then re-establish these functions once all temporary construction effects have been removed. Additionally, the proposed project's activities would not place any permanent barriers within any known wildlife movement corridors or interfere with habitat connectivity. Therefore, the proposed project would not substantially limit wildlife movement, and no mitigation is warranted.

OTHER STATE AND LOCAL POLICIES AND ORDINANCES PROTECTING BIOLOGICAL RESOURCES

Western Joshua Tree Conservation Act

The WJTCA is a law passed in California in July 2023 to set forth protections and guidelines for the western Joshua tree. The law prohibits the importation, export, take, possession, purchase, or sale of any western Joshua tree in California unless authorized by CDFW. The proposed project is in the standard fee area (not the reduced fee area), as these areas are defined in Fish and Game Code Section 1927.3 (d) and (e). The project must comply with the permitting requirements of the Western Joshua Tree Conservation Act and California Department of Fish and Wildlife guidelines. As noted above, an ITP application under the WJTCA is required prior to project implementation (see Mitigation Measure [MM] BIO-1). It should be noted that the CDFW has not entered into an agreement with any county or city to delegate limited authority to permit the taking of western Joshua tree. While the western Joshua tree is regulated under the Town of Yucca Valley Development Code Section 9.09.050, the WJTCA supersedes previous ordinances or policies put in place prior to its implementation.

California Desert Native Plants Act (CDNPA)

Division 23 of the California Food and Agriculture Code consists of the California Desert Native Plants Act (CDNPA). The CDNPA was developed to protect certain species of California desert native plants from unlawful harvesting on both public and private lands. This act protects all native cacti (family Cactaceae), Joshua tree and other yuccas (*Yucca* spp.), century plants (*Agave* spp.), nolinas (*Nolina* spp.), ocotillo (*Fouquieria splendens*), mesquites (*Prosopis* spp.), palos verdes (*Cercidium* spp.), elephant trees (*Bersura* sp.) crucifixion thorn (*Castela emoryi*), panamint dudleya (*Dudleya saxosa*), bristlecone pine (*Pinus longaeva*), California fan palm (*Washingtonia filifera*), catclaw (*Senegalia greggii*), desert-holly (*Atriplex hymemelytra*), smoke tree (*Dalea spinosa*), and desert ironwood (*Olneya tesota*). It should be noted that most of the species protected by CDNPA are not considered rare or special-status species. The CDNPA only applies within the boundaries of Imperial, Inyo, Kern, Los Angeles, Mono, Riverside, San Bernardino, and San Diego Counties. Within these counties, the CDNPA prohibits the harvest, transport, sale, or possession of these desert plants unless a person has a valid permit from the county sheriff or agricultural commissioner. Six species protected by the CDNPA were observed on the Project Site (see Appendix B): silver cholla (*Cylindropuntia echinocarpa*), diamond cholla (*Cylindropuntia ramosissima*), hedgehog cactus (*Echinocereus engelmannii*), catclaw (*Senegalia gregii*), western Joshua tree (*Yucca brevifolia*), and

Mojave yucca (*Yucca schidigera*). Western Joshua trees on the site were mapped as part of the Joshua tree census conducted for this project. The remaining five species will need to be surveyed on the Project Site as required for a permit under the CDNPA.

Town of Yucca Valley Development Code Section 9.09.050

Under the Town of Yucca Valley Ordinance, western Joshua tree, Mojave yucca, Parry's nolina (*Nolina parryi*), California juniper (*Juniperus californica*), Our Lord's candle (*Yucca whipplei*), and Pinon pine (*Pinus monophylla*) require a tree removal permit. Yucca Valley Development Code Section 9.09.050 requires mapping for any regulated native plant within 40 feet of ground disturbance within the project site. A photograph must be provided for each plant or plant cluster. The diameter of each plant or plant cluster and the approximate height of each plant or cluster should be included in the photo caption or in a separate table. A determination of general plant condition and whether the plant or cluster is likely to survive transplanting must also be provided.

Through project implementation, the project may conflict with local policies or policies related to biological resources for Mojave yucca and California juniper. With implementation of MM BIO-1, MM BIO-6, and MM BIO-7 the project would not conflict with other state and local policies or policies related to biological resources. The project is not subject to any other local policies or ordinances.

MITIGATION MEASURE SUMMARY

MM BIO-1 **Joshua Tree Incidental Take Permit.** An incidental take permit (ITP) application under the Western Joshua Tree Conservation Act (WJTCA) shall be submitted to and approved by the California Department of Fish and Wildlife (CDFW) for any unavoidable impacts to western Joshua tree (*Yucca brevifolia*), prior to its removal.

MM BIO-2 **Desert Tortoise Survey.** Prior to any vegetation or ground disturbance activities, surveys shall be conducted for the species according to the United States Fish and Wildlife's (USFWS) 2019 *Preparing for Any Action That May Occur Within the Range of the Mojave Desert Tortoise* (*Gopherus agassizii*) (USFWS 2019b). Should there be positive survey results, a Federal incidental take permit under Section 10 of the Federal Endangered Species Act (FESA) and State incidental take permit under Section 2081 of the Fish and Game Code would be required.

MM BIO-3 **Crotch's Bumble Bee Survey:** To avoid impacts to Crotch's bumble bee, prior to vegetation removal or issuance of a grading permit, a qualified biologist shall conduct a focused Crotch's bumble bee surveys to determine the presence or absence of Crotch's bumble bee within the proposed area of disturbance. The surveys shall consist of three separate visits spaced two to four weeks apart. The pre-construction survey shall be conducted between April 1 and June 15, early in the colony active period, prior to the issuance of the grading permit and within one year prior to the initiation of project activities (including removal of vegetation). The survey shall be conducted by a qualified biologist meeting the qualifications discussed in the California Department of Fish and Wildlife (CDFW) guidance (i.e., *Survey Considerations for California Endangered Species Act Candidate Bumble Bee*

Species, dated June 6, 2023) with a memorandum of understanding for Crotch's bumble bee surveys. The survey shall consist of photographic surveys conducted in accordance with the CDFW guidance. The qualified biologist shall send all photographic vouchers to a CDFW-approved taxonomist to confirm the identifications of the bumble bees encountered during surveys. Survey results will be considered valid until the start of the next colony active period (April 1 of the following year). The results of the pre-construction survey shall be submitted to the City. Survey data shall also be submitted by the qualified biologist to the California Natural Diversity Database, as applicable, in accordance with the requirements of the biologist's memorandum of understanding and scientific collecting permit with CDFW. If pre-construction surveys identify Crotch's bumble bee individuals on-site, the qualified biologist or project proponant shall notify and consult with CDFW to determine whether project activities would result in impacts to Crotch's bumble bee, in which case, an Incidental Take Permit may be required. If an Incidental Take Permit is required, it shall be obtained prior to issuance of the grading permit.

MM BIO-4 **Pre-Construction Burrowing Owl Survey.** A burrowing owl take avoidance survey shall be performed by a qualified biologist not more than 14 days prior to any site disturbance (grubbing, grading, and construction) in accordance with CDFW guidelines (*Staff Report on Burrowing Owl Mitigation*, March 7, 2012). If an occupied burrow is found (as indicated by the observation of a burrowing owl or the presence of burrowing owl sign), a 250-foot buffer around the burrow will be staked and flagged and no construction activities will be allowed within the buffer area during the breeding season (February 1 through August 31). If the burrow is within the project disturbance area, CDFW will be consulted to coordinate relocation of the owl in accordance with accepted protocols. Work on the site will be stopped until CDFW issues an Incidental Take Permit, or other resolution is determined. Determination of the appropriate method of relocation, such as eviction/ passive relocation or active relocation, shall be based on the specific site conditions (e.g., distance to nearest suitable habitat and presence of burrows within that habitat) in coordination with the CDFW. Active relocation and eviction/passive relocation require the preservation and maintenance of suitable burrowing owl habitat determined through coordination with the CDFW.

MM BIO-5 **Pre-Construction Nesting Bird Survey.** To ensure compliance with the California Fish and Game Code and the Migratory Bird Treaty Act (MBTA) and to avoid potential impacts to nesting birds, vegetation removal activities shall be conducted outside the general bird nesting season (January 15 through August 31). Any vegetation removal and/or construction activities that occur during the nesting season will require that all suitable habitats be thoroughly surveyed for the presence of nesting birds by a qualified biologist. Prior to commencement of clearing, a qualified biologist shall conduct a pre-construction survey within 3 days prior to ground-disturbing activities. Should nesting birds be found, an exclusionary buffer will be established by the qualified biologist. The buffer may be up to 500 feet in diameter, depending on the species of nesting bird found. This buffer will be clearly marked in

the field by construction personnel under guidance of the qualified biologist, and construction or clearing will not be conducted within this zone until the qualified biologist determines that the young have fledged or the nest is no longer active. The buffer may be modified and/or other recommendations proposed as determined appropriate by the biologist to minimize impacts. Nesting bird habitat within the project site will be resurveyed during the bird breeding season if there is a lapse in construction activities longer than 7 days.

MM BIO-6 **Town of Yucca Valley Development Code Section 9.09.050**. A tree removal permit application under Development Code Section 9.09.050 shall be submitted to and approved by the Town of Yucca Valley for any unavoidable impacts to Mojave yucca and California juniper.

MM BIO-7 **California Desert Native Plants Act**. The Applicant shall obtain a permit from the San Bernardino County Agricultural Commissioner before disturbing or removing any CDNPA-protected plants from the Project Site.

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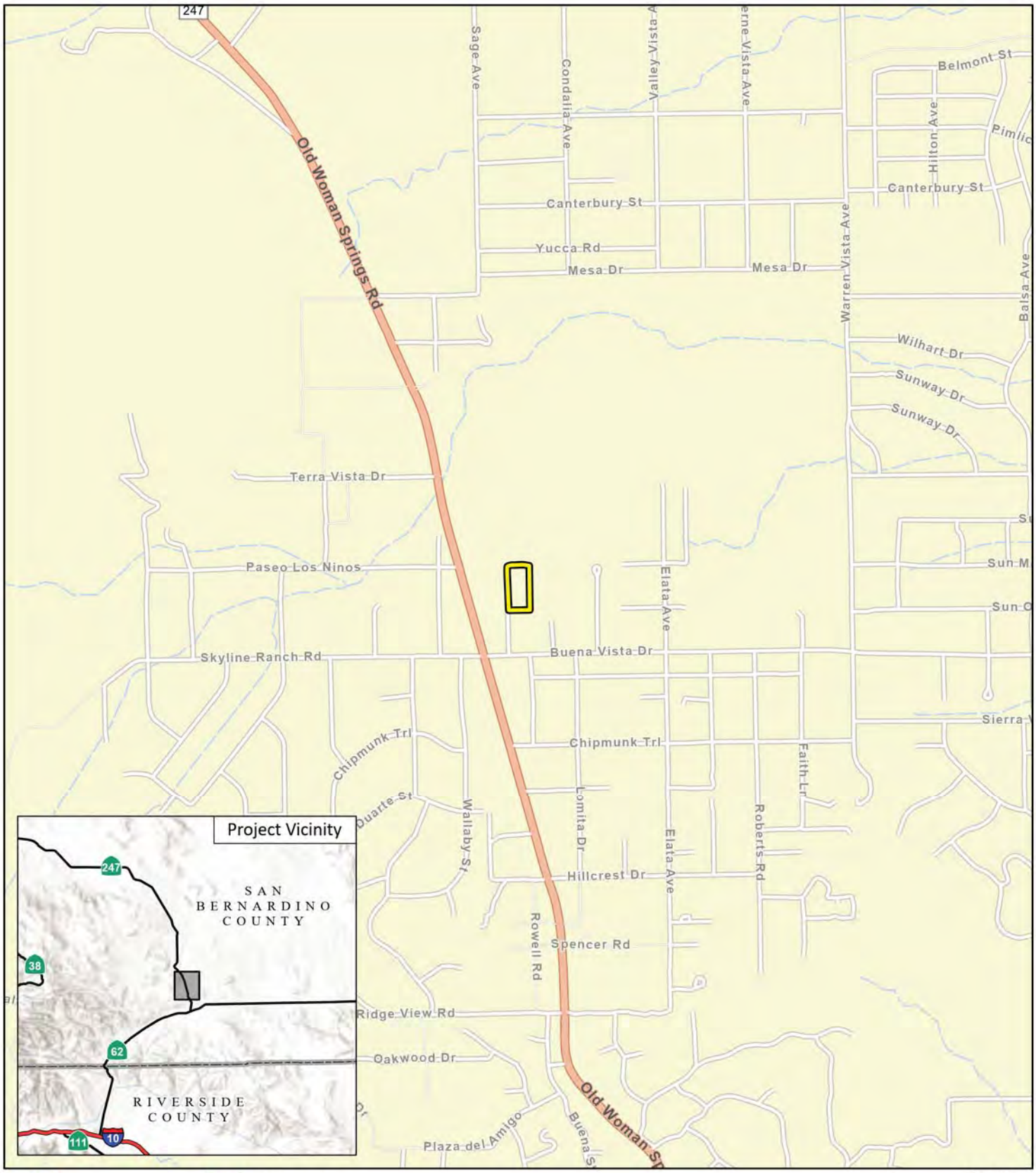
APPENDIX A

FIGURES 1–4

Figure 1: Regional and Project Location
Figure 2: Project Site Plan
Figure 3: Vegetation, Land Use, and Photo Locations
Figure 4: Joshua Tree Census



LSA

Project Area

FIGURE 1

N

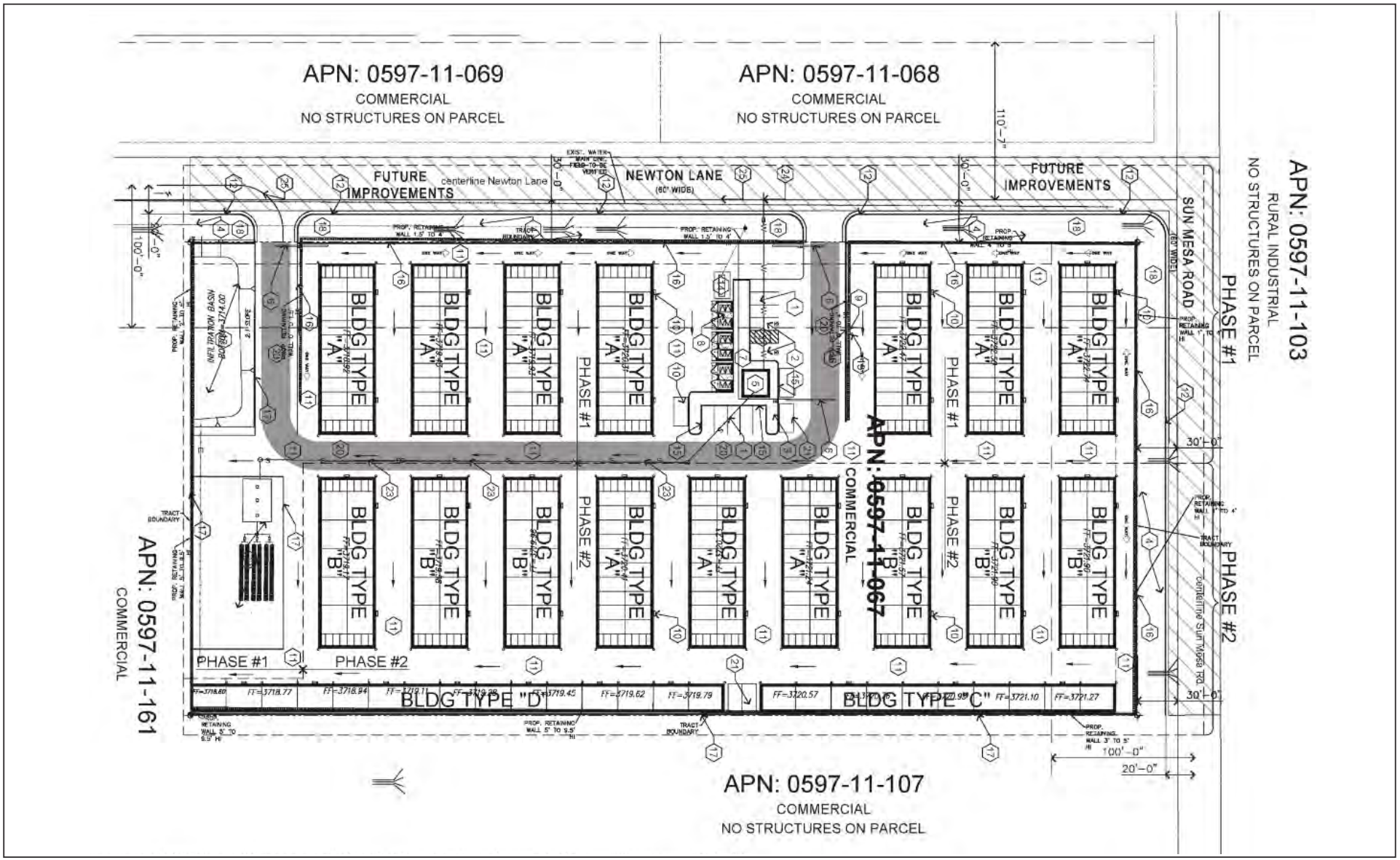
0 1000 2000
FEET

SOURCE: Esri (2024)

I:\20231230\GIS\Pro\Sun Mesa Mini Storage Project\Sun Mesa Mini Storage Project.aprx (7/9/2024)

Sun Mesa (Billings) Mini Storage Project

Project Location



LSA

FIGURE 2

0 50 100
FEET

SOURCE: Ultra Systems

I:\2025\20252490\G\Site_Plan.ai (7/25/2025)

Sun Mesa (Billings) Mini Storage Project
Site Plan

LSA

Project Area

Photo Points

Land Cover

Joshua Tree Woodland - 4.92 acres

N

0 15 30

Meters

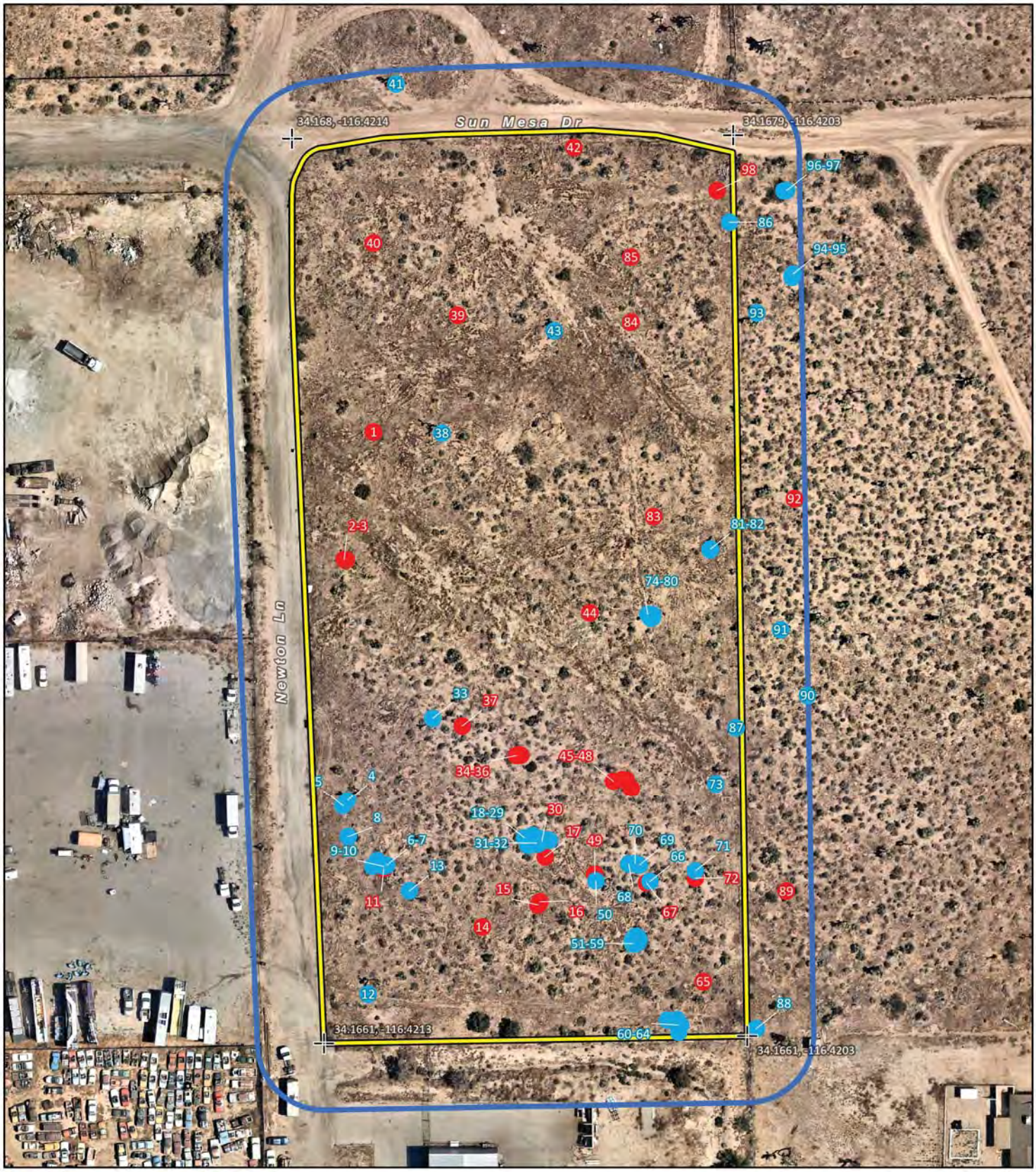
SOURCE: Nearmap Aerial Imagery (June 12, 2023)

I:\2023\20231230\GIS\Pro\Sun Mesa Mini Storage Project\Sun Mesa Mini Storage Project.aprx (8/7/2024)

FIGURE 3

Sun Mesa (Billings) Mini Storage Project

Vegetation, Land Use, and Photo Locations



LSA

Project Area

Study Area

Joshua Trees

Alive

Dead

0 14 28

Meters

FIGURE 4

Sun Mesa (Billings) Mini Storage Project

Joshua Tree Census

SOURCE: Nearmap Aerial Imagery (June 12, 2023)

I:\2023\20231230\GIS\Pro\Sun Mesa Mini Storage Project\Sun Mesa Mini Storage Project.aprx (8/6/2024)

APPENDIX B

VASCULAR PLANT SPECIES OBSERVED

The following vascular plant species were observed within the project site by LSA biologists on May 7, 2024.

* Introduced species not native to California

CONIFERS	
Cupressaceace	**Cypress family**
Juniperus californica	California juniper
GNETOPHYTES	
Ephedraceae	**Ephedra family**
Ephedra nevadensis	Nevada jointfir
EUDICOT FLOWERING PLANTS	
Asteraceae	**Sunflower family**
Acamptopappus sphaerocephalus	Rayless goldenhead
Adenophyllum cooperi	Adenophyllum
Ambrosia dumosa	White bur-sage
Ambrosia salsola	Burrobrush
Baileya multiradiata	Desert marigold
Ericameria cooperi	Cooper's goldenbush
Stephanomeria exigua	Small wreath-plant
Boraginaceae	**Borage family**
Amsinckia tessellata	Bristly fiddleneck
Brassicaceae	**Mustard family**
*Brassica tournefortii**	Sahara mustard
*Hirschfeldia incana**	Shortpod mustard
*Sisymbrium altissimum**	Tall tumblemustard
*Sisymbrium irio**	London rocket
Cactaceae	**Cactus family**
Cylindropuntia echinocarpa	Silver cholla
Cylindropuntia ramosissima	Diamond cholla
Echinocereus engelmannii	Hedgehog cactus
Chenopodiaceae	**Saltbush family**
Atriplex canescens	Fourwing saltbush
Euphorbiaceae	**Spurge family**
Euphorbia albomarginata	Rattlesnake weed

Fabaceae	**Pea family**
Senegalia greggii	Catclaw
Senna armata	Spiny senna
Geraniaceae	**Geranium family**
*Erodium cicutarium**	Redstem stork's bill
Lamiaceae	**Mint family**
Salvia columbariae	Chia
Scutellaria mexicana	Bladder sage
Malvaceae	**Mallow family**
Sphaeralcea ambigua	Desert mallow
Nyctaginaceae	**Four-o'clock family**
Mirabilis laevis	Wishbone bush
Polygonaceae	**Buckwheat family**
Eriogonum fasciculatum	California buckwheat
Eriogonum maculatum	Buckwheat
Solanaceae	**Nightshade family**
Lycium andersonii	Water jacket
Lycium cooperi	Peach thorn
Zygophyllaceace	**Caltrop family**
Larrea tridentata	Creosote bush
MONOCOTS FLOWERING PLANTS	
Agavaceae	**Agave family**
Yucca brevifolia	Western Joshua tree
Yucca schidigera	Mojave yucca
Poaceae	**Grass family**
*Bromus rubens**	Red brome
Schismus sp.*	Mediterranean grass

Taxonomy and scientific nomenclature generally conform to Baldwin, B.G., D.H. Goldman et al., eds. (2012; *The Jepson Manual: Vascular Plants of California,* 2nd edition; University of California Press, Berkeley and Los Angeles, California).

Common names for each taxa generally conform to Roberts, F.M., Jr. (2008; *The Vascular Plants of Orange County, California: An Annotated Checklist*; F.M. Roberts Publications, San Luis Rey, California) except where Abrams, L. (1923, 1944, and 1951; *Illustrated Flora of the Pacific States: Washington, Oregon, and California*, vols. I–III; Stanford University Press, Stanford, California) and Abrams, L. and Ferris, R.S. (1960; *Illustrated Flora of the Pacific States: Washington, Oregon, and California*, vol. IV; Stanford University Press, Stanford, California) were used, particularly when species-specific common names were not identified in Roberts, F.M., Jr. (2008).

APPENDIX C

ANIMAL SPECIES DETECTED

This is a list of the bony fishes, amphibians, reptiles, birds, and mammals noted in the study area by LSA biologists. Presence may be noted if a species is seen or heard, or identified by the presence of tracks, scat, or other signs. Please note that most species are listed in phylogenetic order of relation.

* Species not native to the project site

BIRDS	
Odontophoridae	**New World Quail**
Callipepla californica	California quail
Columbidae	**Pigeons and Doves**
Zenaida macroura	mourning dove
Cathartidae	**American Vultures**
Cathartes aura	turkey vulture
Laniidae	**Shrikes**
Lanius ludovicianus	loggerhead shrike
Corvidae	**Crows and Ravens**
Corvus corax	common raven
Passeridae	**Old World Sparrows**
*Passer domesticus**	house sparrow
Fringillidae	**Finches**
Haemorhous mexicanus	house finch
REPTILES	
Teiidae	**Whiptails**
Aspidoscelis	San Diego tiger whiptail
MAMMALS	
Leporidae	**Rabbits and Hares**
Sylvilagus audubonii	desert cottontail

APPENDIX D

REPRESENTATIVE SITE PHOTOGRAPHS

Photo 1: View looking south at Joshua tree woodland from the northwest corner of the project site.

Photo 2: View looking south at Joshua tree woodland from the northeast corner of the project site.

Photo 3: View looking west at Joshua tree woodland from the southeast corner of the project site.

Photo 4: View looking north at Joshua tree woodland from the southwest corner of the project site.

Photo 1: View looking south at Joshua tree woodland from the northwest corner of the project site.

APPENDIX E

JOSHUA TREE REPORT

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

September 26, 2025

Daniel R. Patneaude
DRP Enterprises, LLC
P.O. Box 4428
Palm Springs, CA 92263

Subject: Western Joshua Tree Census for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California (LSA Project No. 20252490)

Dear Mr. Patneaude:

This letter report documents the results of a census of western Joshua trees (*Yucca brevifolia var. brevifolia*) conducted at the request of DRP Enterprises, LLC, for the Sun Mesa (Billings) Mini Storage project (project) on Assessor's Parcel Numbers 0597-111-67-0000. The 4.34-acre site is on the southwest corner of Newton Lane and Sun Mesa Road, north of Buena Vista Drive in Yucca Valley, San Bernardino County, California. Figure 1 (all figures provided in Attachment A) provides project location.

The Joshua tree census survey was conducted to comply with the permitting requirements of the Western Joshua Tree Conservation Act and California Department of Fish and Wildlife guidelines. This project is in the reduced fee area, as described in Fish and Game Code section 1927.3.

METHODS

The Western Joshua tree census was conducted on November 1, 2023, from 6:30 a.m. to 3:15 p.m. by LSA arborist Stan Spencer, senior biologist Christina Van Oosten and assistant biologist Eva Newby. Weather conditions during the census were clear, with winds of 0-2 miles per hour (mph) and temperatures from 66-78 Degrees Fahrenheit (°F).

The study area for the census includes the 4.34-acre project site plus a 15-meter (49-foot) buffer area around the site (Figure 2). They surveyed the study area on foot by walking 30-foot transects. The transect spacing provided for complete visual coverage of Joshua trees of all size classes on the site. As access was not provided to the buffer area, Joshua trees were surveyed from the edge of the project site (Assessor's Parcel Numbers 0597-111-67-0000). Each living or dead Joshua tree in the study area was assigned a unique identification number, tagged, photographed, and mapped using Global Positioning System (GPS) technology (datum WGS 84). Each Joshua tree stem or trunk arising from the ground was considered an individual tree. For each Joshua tree, the arborist recorded size class, maturity, and flowering/fruiting status. The collected information for each Joshua tree is provided in Table A (Attachment B). Figure 2 shows Joshua tree locations. Photographs of the Joshua trees are provided in Figure 3.

STAFF BACKGROUND

Dr. Spencer has a Ph.D. in botany from Claremont Graduate University (1997) and is an International Society of Arboriculture Certified Arborist (WE-9358A). He has conducted arborist studies throughout Southern California since 2003, including Joshua tree inventories in Los Angeles and San

Bernardino counties as well as Joshua tree relocation monitoring. Dr. Spencer is knowledgeable of Joshua tree ecology and identification and experienced in inventorying and assessing Joshua trees for general health and suitability for transplanting. Dr. Spencer can be contacted at 951-232-4124 or stan.spencer@lsa.net. Ms. Van Oosten has a B.S. in Zoology from California State Polytechnic University, Pomona (2008) and is a desert ecologist with more than 10 years' experience in the Southwest. She is knowledgeable of Joshua tree ecology and identification and experienced in inventorying and assessing Joshua trees for general health. Ms. Van Oosten is under the tutelage of Dr. Spencer to become an arborist herself and has conducted Joshua tree inventories in Kern and San Bernardino counties.

RESULTS

As shown in Table A, Joshua Tree Census Data, 98 Joshua trees were found in the study area: 87 on the project site and 11 in the buffer area. Fifty-eight of the 87 within the project site are alive, with 4 greater than 5 meters (16.4 feet), 27 are between 1 meter (3.8 feet) to less than 5 meters (16.4 feet), and the remaining 27 are less than 1 meter (3.8 feet) in height.

The 11 Joshua trees in the buffer area are spread through the eastern side of the project. Eight of the 11 are alive, with 1 greater than 5 meters (16.4 feet), 5 are between 1 meter (3.8 feet) to less than 5 meters (16.4 feet), and 2 are less than 1 meter (3.8 feet) in height. No Joshua tree seedlings were found in the study area or the buffer. No flowering or fruiting was observed for the current year.

If you have any questions about this Joshua tree census, please contact me at (626) 215-0329 or christina.vanoosten@lsa.net.

Sincerely,

LSA Associates, Inc.

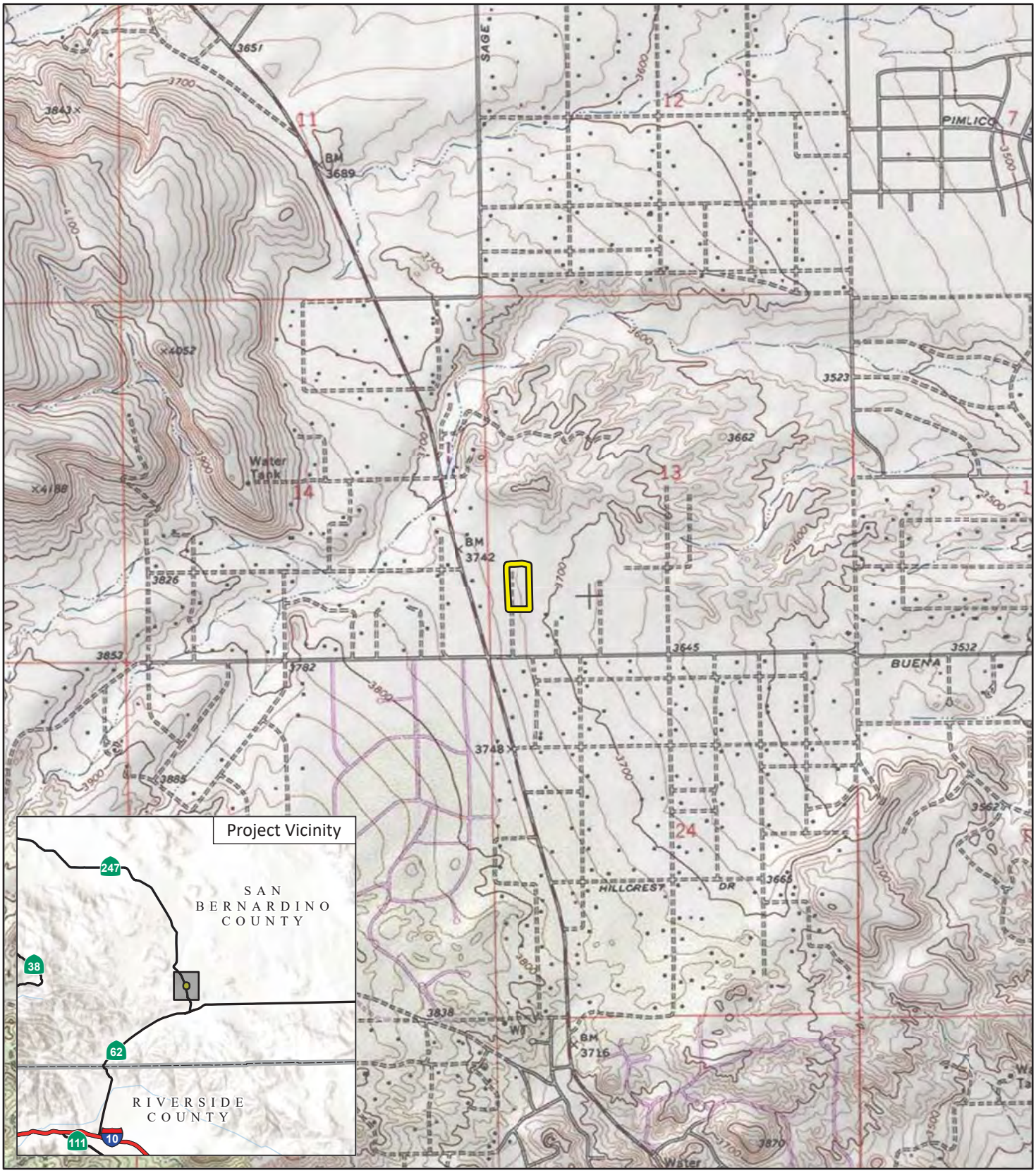
Christina Van Oosten
Senior Biologist

Attachments: A: Figure 1—Project Location
Figure 2—Joshua Tree Census
Figure 3—Representative Tree Photographs
B: Table A

ATTACHMENT A

FIGURES

Figure 1: Project Location
Figure 2: Joshua Tree Census
Figure 3: Joshua Tree Photographs



LSA

Project Area

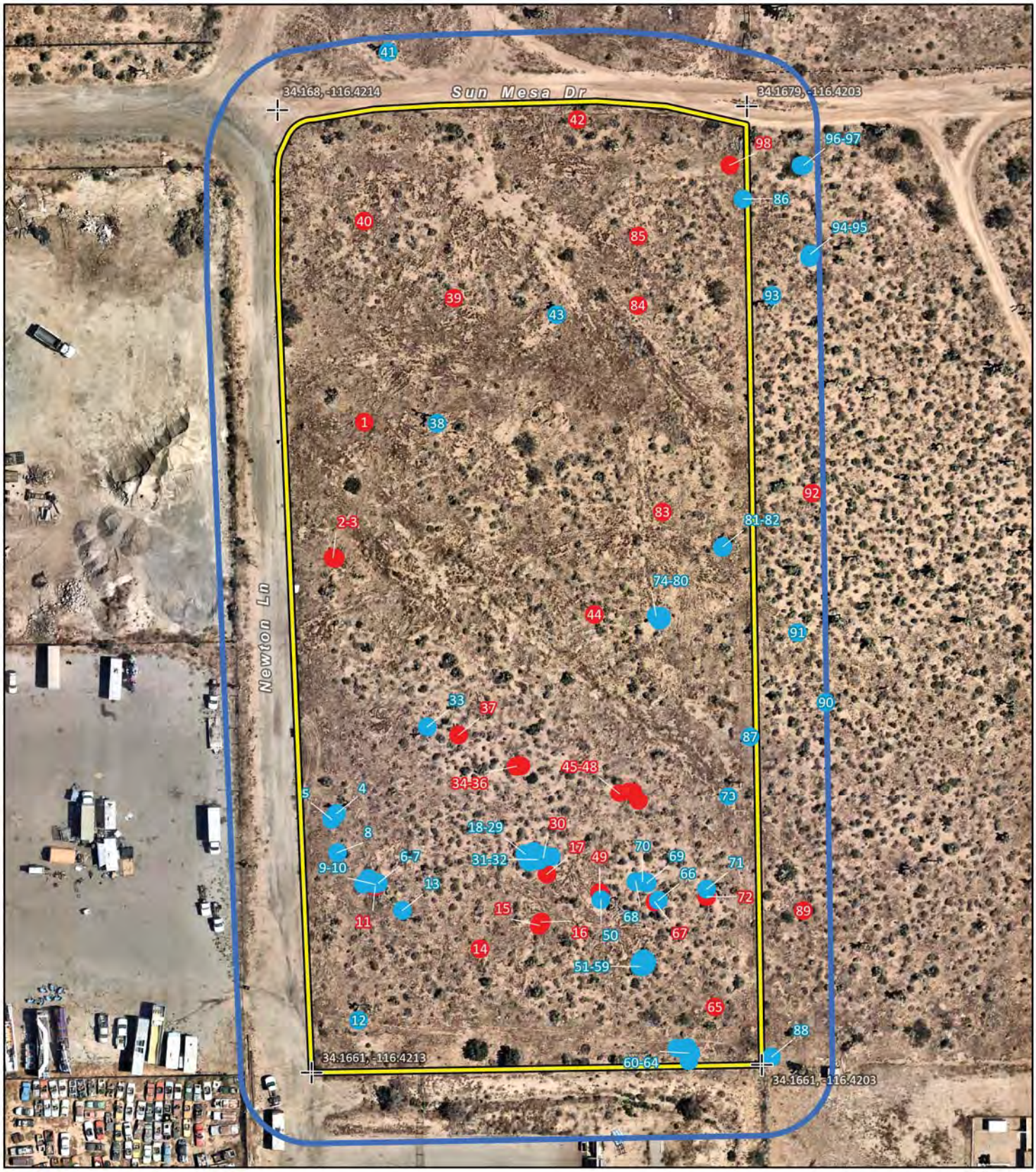
FIGURE 1

Sun Mesa (Billings) Mini Storage Project

Project Location

SOURCE: USGS 7.5' Quad - *Yucca Valley North (1989)*, CA

J:\20231230\GIS\Pro\Sun Mesa Mini Storage Project\Sun Mesa Mini Storage Project.aprx (11/16/2023)



LSA

Project Area

Study Area

Joshua Trees

Alive

Dead

FIGURE 2

0 14 28

Meters

SOURCE: Nearmap Aerial Imagery (June 12, 2023)

J:\20231230\GIS\Pro\Sun Mesa Mini Storage Project\Sun Mesa Mini Storage Project.aprx (11/14/2023)

Sun Mesa (Billings) Mini Storage Project

Joshua Tree Census

Photo 1: Tree 1

Photo 2: Tree 2

Photo 3: Tree 3

Photo 4: Tree 4

Photo 5: Tree 5

Photo 6: Tree 6

Photo 7: Tree 7

Photo 8: Tree 8

Photo 9: Tree 9

Photo 10: Tree 10

Photo 11: Tree 11

Photo 12: Tree 12

LSA

FIGURE 3
Page 1 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 13: Tree 13

Photo 14: Tree 14

Photo 15: Tree 15

Photo 16: Tree 16

Photo 17: Tree 17

Photo 18: Tree 18

Photo 19: Tree 19

Photo 20: Tree 20

Photo 21: Tree 21

Photo 22: Tree 22

Photo 23: Tree 23

Photo 24: Tree 24

LSA

FIGURE 3
Page 2 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 25: Tree 25

Photo 26: Tree 26

Photo 27: Tree 27

Photo 28: Tree 28

Photo 29: Tree 29

Photo 30: Tree 30

Photo 31: Tree 31

Photo 32: Tree 32

Photo 33: Tree 33

Photo 34: Tree 34

Photo 35: Tree 35

Photo 36: Tree 36

LSA

FIGURE 3
Page 3 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 37: Tree 37

Photo 38: Tree 38

Photo 39: Tree 29

Photo 40: Tree 40

Photo 41: Tree 41

Photo 42: Tree 42

Photo 43: Tree 43

Photo 44: Tree 44

Photo 45: Tree 45

Photo 46: Tree 46

Photo 47: Tree 47

Photo 48: Tree 48

LSA

FIGURE 3
Page 4 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 49: Tree 49

Photo 50: Tree 50

Photo 51: Tree 51

Photo 52: Tree 52

Photo 53: Tree 53

Photo 54: Tree 54

Photo 55: Tree 55

Photo 56: Tree 56

Photo 57: Tree 57

Photo 58: Tree 58

Photo 59: Tree 59

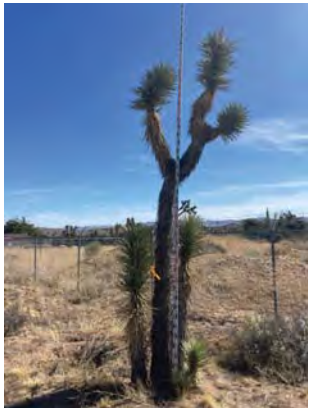


Photo 60: Tree 60

LSA

FIGURE 3
Page 5 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 61: Tree 61

Photo 62: Tree 62

Photo 63: Tree 63

Photo 64: Tree 64

Photo 65: Tree 65

Photo 66: Tree 66

Photo 67: Tree 67

Photo 68: Tree 68

Photo 69: Tree 69

Photo 70: Tree 70

Photo 71: Tree 71

Photo 72: Tree 72

LSA

FIGURE 3
Page 6 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 73: Tree 73

Photo 74: Tree 74

Photo 75: Tree 75

Photo 76: Tree 76

Photo 77: Tree 77

Photo 78: Tree 78

Photo 79: Tree 79

Photo 80: Tree 80

Photo 81: Tree 81

Photo 82: Tree 82

Photo 83: Tree 83

Photo 84: Tree 84

LSA

FIGURE 3
Page 7 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 85: Tree 85

Photo 86: Tree 86

Photo 87: Tree 87

Photo 88: Tree 88 in buffer. No property access.

Photo 89: Tree 89 in buffer. No property access.

Photo 90: Tree 90 in buffer. No property access.

Photo 91: Tree 91 in buffer. No property access.

Photo 92: Tree 92 in buffer. No property access.

Photo 69: Tree 69 in buffer. No property access.

Photo 70: Tree 70 in buffer. No property access.

Photo 71: Tree 71 in buffer. No property access.

Photo 96: Tree 96 in buffer. No property access.

LSA

FIGURE 3

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 97: Tree 97 in buffer. No property access.

Photo 98: Tree 98 in buffer. No property access.

LSA

FIGURE 3
Page 9 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

ATTACHMENT B

TABLE A

Table A: Joshua Tree Census Data

Tree Number	Latitude (WGS 84)	Longitude (WGS 84)	Size Class[1]	Live or Dead?	Mature (Branched)?	Flowering or Fruiting Stage?	Project Impact to Tree (Removal, Trim, Relocation, Other, or None)	Project Activity Within 15 Meters?
1	34.167359	-116.421207	B	Dead	Yes	None	Removal	Yes
2	34.167102	-116.421284	B	Dead	Unknown	None	Removal	Yes
3	34.167101	-116.421278	B	Dead	Yes	None	Removal	Yes
4	34.166611	-116.421285	C	Live	Yes	None	Removal	Yes
5	34.1666	-116.421296	B	Live	Yes	None	Removal	Yes
6	34.166477	-116.421191	B	Live	Yes	None	Removal	Yes
7	34.166487	-116.421214	B	Live	Yes	None	Removal	Yes
8	34.166536	-116.421284	A	Live	No	None	Removal	Yes
9	34.166475	-116.421199	A	Live	No	None	Removal	Yes
10	34.166476	-116.421226	A	Live	No	None	Removal	Yes
11	34.16647	-116.421199	B	Dead	Yes	None	Removal	Yes
12	34.166216	-116.421242	C	Live	Yes	None	Removal	Yes
13	34.166424	-116.421137	B	Live	Yes	None	Removal	Yes
14	34.166349	-116.42096	B	Dead	Yes	None	Removal	Yes
15	34.166392	-116.420823	B	Dead	Yes	None	Removal	Yes
16	34.166398	-116.420819	B	Dead	Unknown	None	Removal	Yes
17	34.166489	-116.420804	B	Dead	No	None	Removal	Yes
18	34.166528	-116.420854	B	Live	Yes	None	Removal	Yes
19	34.166525	-116.420811	B	Live	No	None	Removal	Yes
20	34.166529	-116.420833	B	Live	Unknown	None	Removal	Yes
21	34.166514	-116.420846	B	Live	No	None	Removal	Yes
22	34.166523	-116.42084	B	Live	No	None	Removal	Yes
23	34.166526	-116.420819	B	Live	No	None	Removal	Yes
24	34.166522	-116.420793	A	Live	No	None	Removal	Yes
25	34.166523	-116.420825	A	Live	No	None	Removal	Yes
26	34.166513	-116.420845	A	Live	No	None	Removal	Yes
27	34.166517	-116.420837	A	Live	No	None	Removal	Yes
28	34.166533	-116.420834	A	Live	Unknown	None	Removal	Yes
29	34.166518	-116.420816	A	Live	Yes	None	Removal	Yes
30	34.16652	-116.420812	A	Dead	No	None	Removal	Yes

Table A: Joshua Tree Census Data

Tree Number	Latitude (WGS 84)	Longitude (WGS 84)	Size Class[1]	Live or Dead?	Mature (Branched)?	Flowering or Fruiting Stage?	Project Impact to Tree (Removal, Trim, Relocation, Other, or None)	Project Activity Within 15 Meters?
31	34.166517	-116.420825	A	Live	No	None	Removal	Yes
32	34.166515	-116.420821	A	Live	No	None	Removal	Yes
33	34.166776	-116.421073	B	Live	Yes	None	Removal	Yes
34	34.166698	-116.42087	B	Dead	Yes	None	Removal	Yes
35	34.166699	-116.42086	B	Dead	Yes	None	Removal	Yes
36	34.1667	-116.420864	B	Dead	No	None	Removal	Yes
37	Yes	-116.421002	B	Dead	Unknown	None	Removal	Yes
38	Yes	-116.42104	C	Live	Yes	None	Removal	Yes
39	Yes	-116.420997	B	Dead	Yes	None	Removal	Yes
40	Yes	-116.42120	B	Dead	Yes	None	Removal	Yes
41	Yes	-116.421139	C	Live	Yes	None	Other (in buffer)	Yes
42	Yes	-116.420707	B	Dead	Yes	None	Removal	Yes
43	Yes	-116.420761	B	Live	Yes	None	Removal	Yes
44	Yes	-116.420685	B	Dead	Yes	None	Removal	Yes
45	Yes	-116.420634	B	Dead	Yes	None	Removal	Yes
46	Yes	-116.420603	B	Dead	Unknown	None	Removal	Yes
47	Yes	-116.420612	B	Dead	No	None	Removal	Yes
48	Yes	-116.420591	B	Dead	Unknown	None	Removal	Yes
49	Yes	-116.420684	B	Dead	Yes	None	Removal	Yes
50	Yes	-116.420681	C	Live	Yes	None	Removal	Yes
51	Yes	-116.420594	B	Live	Yes	None	Removal	Yes
52	Yes	-116.420586	B	Live	Yes	None	Removal	Yes
53	Yes	-116.420578	A	Live	Unknown	None	Removal	Yes
54	Yes	-116.420588	A	Live	No	None	Removal	Yes
55	Yes	-116.42058	A	Live	Unknown	None	Removal	Yes
56	Yes	-116.420594	A	Live	No	None	Removal	Yes
57	Yes	-116.420591	A	Live	Unknown	None	Removal	Yes
58	Yes	-116.42058	A	Live	No	None	Removal	Yes
59	Yes	-116.420587	A	Live	Unknown	None	Removal	Yes
60	Yes	-116.420486	B	Live	Yes	None	Removal	Yes

Table A: Joshua Tree Census Data

Tree Number	Latitude (WGS 84)	Longitude (WGS 84)	Size Class[1]	Live or Dead?	Mature (Branched)?	Flowering or Fruiting Stage?	Project Impact to Tree (Removal, Trim, Relocation, Other, or None)	Project Activity Within 15 Meters?
61	Yes	-116.420512	A	Live	No	None	Removal	Yes
62	Yes	-116.420485	A	Live	Unknown	None	Removal	Yes
63	Yes	-116.42048	B	Live	Yes	None	Removal	Yes
64	Yes	-116.420488	A	Live	No	None	Removal	Yes
65	Yes	-116.420423	B	Dead	Unknown	None	Removal	Yes
66	Yes	-116.420549	B	Live	Yes	None	Removal	Yes
67	Yes	-116.420558	B	Dead	Unknown	None	Removal	Yes
68	Yes	-116.42060	B	Live	Yes	None	Removal	Yes
69	Yes	-116.420574	B	Live	Unknown	None	Removal	Yes
70	Yes	-116.420585	A	Live	No	None	Removal	Yes
71	Yes	-116.420438	B	Live	Yes	None	Removal	Yes
72	Yes	-116.420438	B	Dead	No	None	Removal	Yes
73	Yes	-116.420384	B	Live	Yes	None	Removal	Yes
74	Yes	-116.420544	B	Live	Yes	None	Removal	Yes
75	Yes	-116.420537	B	Live	No	None	Removal	Yes
76	Yes	-116.420532	A	Live	Unknown	None	Removal	Yes
77	Yes	-116.420532	A	Live	No	None	Removal	Yes
78	Yes	-116.420536	A	Live	No	None	Removal	Yes
79	Yes	-116.420538	A	Live	Unknown	None	Removal	Yes
80	Yes	-116.420535	A	Live	Unknown	None	Removal	Yes
81	Yes	-116.420388	B	Live	Yes	None	Removal	Yes
82	Yes	-116.420389	B	Live	Unknown	None	Removal	Yes
83	Yes	-116.420526	B	Dead	Unknown	None	Removal	Yes
84	Yes	-116.420574	B	Dead	Unknown	None	Removal	Yes
85	Yes	-116.420571	B	Dead	Yes	None	Removal	Yes
86	Yes	-116.420329	B	Live	Yes	None	Removal	Yes
87	Yes	-116.420332	B	Live	Yes	None	Removal	Yes
88	Yes	-116.420295	B	Live	Unknown	None	Other (in buffer)	Yes
89	Yes	-116.420216	B	Dead	Unknown	None	Other (in buffer)	Yes
90	Yes	-116.420157	B	Live	Yes	None	Other (in buffer)	Yes

Table A: Joshua Tree Census Data

Tree Number	Latitude (WGS 84)	Longitude (WGS 84)	Size Class[1]	Live or Dead?	Mature (Branched)?	Flowering or Fruiting Stage?	Project Impact to Tree (Removal, Trim, Relocation, Other, or None)	Project Activity Within 15 Meters?
91	Yes	-116.42022	B	Live	Yes	None	Other (in buffer)	Yes
92	Yes	-116.420181	B	Dead	Yes	None	Other (in buffer)	Yes
93	Yes	-116.420266	B	Live	Yes	None	Other (in buffer)	Yes
94	Yes	-116.420176	B	Live	Yes	None	Other (in buffer)	Yes
95	Yes	-116.420179	A	Live	No	None	Other (in buffer)	Yes
96	Yes	-116.420189	A	Live	No	None	Other (in buffer)	Yes
97	Yes	-116.420195	B	Live	Yes	None	Other (in buffer)	Yes
98	Yes	-116.420359	B	Dead	Yes	None	Removal	Yes

Source: Compiled by LSA (2023)

[1] A = Height less than 1 meter (3.8 feet) ; B = Height 1 m (3.8 feet) to less than 5 m (16.4 feet); C = Height 5 m (16.4 feet) or more.

APPENDIX F

PLANT REPORT

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

September 26, 2025

Daniel R. Patneaude
DRP Enterprises, LLC
P.O. Box 4428
Palm Springs, CA 92263

Subject: Plant Survey for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California (LSA Project No. 20252490)

Dear Mr. Patneaude:

This letter report documents the findings of a spring plant survey conducted at the request of DRP Enterprises, LLC, for the Sun Mesa (Billings) Mini Storage Project (project) on Assessor's Parcel Number 0597-111-67-0000. The 4.34-acre site is on the southwest corner of Newton Lane and Sun Mesa Road, north of Buena Vista Drive in Yucca Valley, San Bernardino County, California. The elevation of the project site ranges from approximately 3,710 to 3,726 ft above mean sea level (amsl). Figure 1 (provided in Attachment B) shows the project location.

The survey was conducted to document the presence of any special-status species detectable during the time of the survey. Yucca Valley's annual rainfall varies significantly year-to-year but generally receives around 3-6 inches of rain annually. The rainy season occurs from approximately late November to late March. The 2023-2024 season rainfall to date at the time of the survey, based on records at the Yucca Valley Airport, was 7.9 inches.[1] A survey had previously been conducted for Western Joshua tree (*Yucca brevifolia*), a State candidate species.

METHODS

The plant survey was conducted by LSA botanist Stan Spencer, PhD, and LSA biologists Christina Van Oosten and Julia Lung on May 7, 2024, from 9:45 and 11:50 a.m., for a total of 6 person hours of survey effort. The survey was conducted in a manner consistent with California Native Plant Society (CNPS) 2001 guidelines.[2] The entire project site and adjacent right-of-way areas were surveyed by systematically walking along 15-meter (50-foot) wide, parallel line transects. Adjacent habitat in private properties to the south and east of the project site were visually surveyed from the property boundary, as no access was provided to those properties. The survey was floristic in nature, and all species observed on the site, including annual species that were past flower or dessicated, were identified to the degree required to determine rarity status.

[1] Weather Underground. Past weather for Station L22 Airport - KCAYUCCA49, https://www.wunderground.com/dashboard/pws/KCAYUCCA49, accessed 15 September 2025.
[2] California Native Plant Society. *CNPS Botanical Survey Guidelines*. June 2, 2001.

RESULTS AND DISCUSSION

No special-status plant species were observed during the survey except Western Joshua tree. A list of plant species observed in the study area is provided in Table A (Attachment A).

Please contact me at (951) 690-6309 or Christina Van Oosten at (626) 215-0329 if you have any questions regarding the results of this study.

Sincerely,

LSA Associates, Inc.

Stan Spencer
Associate/Botanist

Attachments: A: Table A – Vascular Plant Species Observed
B: Figure 1

ATTACHMENT A

TABLE A: VASCULAR PLANT SPECIES OBSERVED

Table A: Vascular Plant Species Observed

Scientific Name	Common Name
CONIFERS	
Cupressaceace	**Cypress family**
Juniperus californica	California juniper
GNETOPHYTES	
Ephedraceae	**Ephedra family**
Ephedra nevadensis	Nevada jointfir
EUDICOT FLOWERING PLANTS	
Asteraceae	**Sunflower family**
Acamptopappus sphaerocephalus	Rayless goldenhead
Adenophyllum cooperi	Adenophyllum
Ambrosia dumosa	White bur-sage
Ambrosia salsola	Burrobrush
Baileya multiradiata	Desert marigold
Ericameria cooperi	Cooper's goldenbush
Stephanomeria exigua	Small wreath-plant
Boraginaceae	**Borage family**
Amsinckia tessellata	Bristly fiddleneck
Brassicaceae	**Mustard family**
*Brassica tournefortii**	Sahara mustard
*Hirschfeldia incana**	Shortpod mustard
*Sisymbrium altissimum**	Tall tumblemustard
*Sisymbrium irio**	London rocket
Cactaceae	**Cactus family**
Cylindropuntia echinocarpa	Silver cholla
Cylindropuntia ramosissima	Diamond cholla
Echinocereus engelmannii	Hedgehog cactus
Chenopodiaceae	**Saltbush family**
Atriplex canescens	Fourwing saltbush
Euphorbiaceae	**Spurge family**
Euphorbia albomarginata	Rattlesnake weed
Fabaceae	**Pea family**
Senegalia greggii	Catclaw
Senna armata	Spiny senna
Geraniaceae	**Geranium family**
*Erodium cicutarium**	Redstem stork's bill
Lamiaceae	**Mint family**
Salvia columbariae	Chia
Scutellaria mexicana	Bladder sage
Malvaceae	**Mallow family**
Sphaeralcea ambigua	Desert mallow
Nyctaginaceae	**Four-o'clock family**
Mirabilis laevis	Wishbone bush
Polygonaceae	**Buckwheat family**
Eriogonum fasciculatum	California buckwheat
Eriogonum maculatum	Buckwheat
Solanaceae	**Nightshade family**
Lycium andersonii	Water jacket

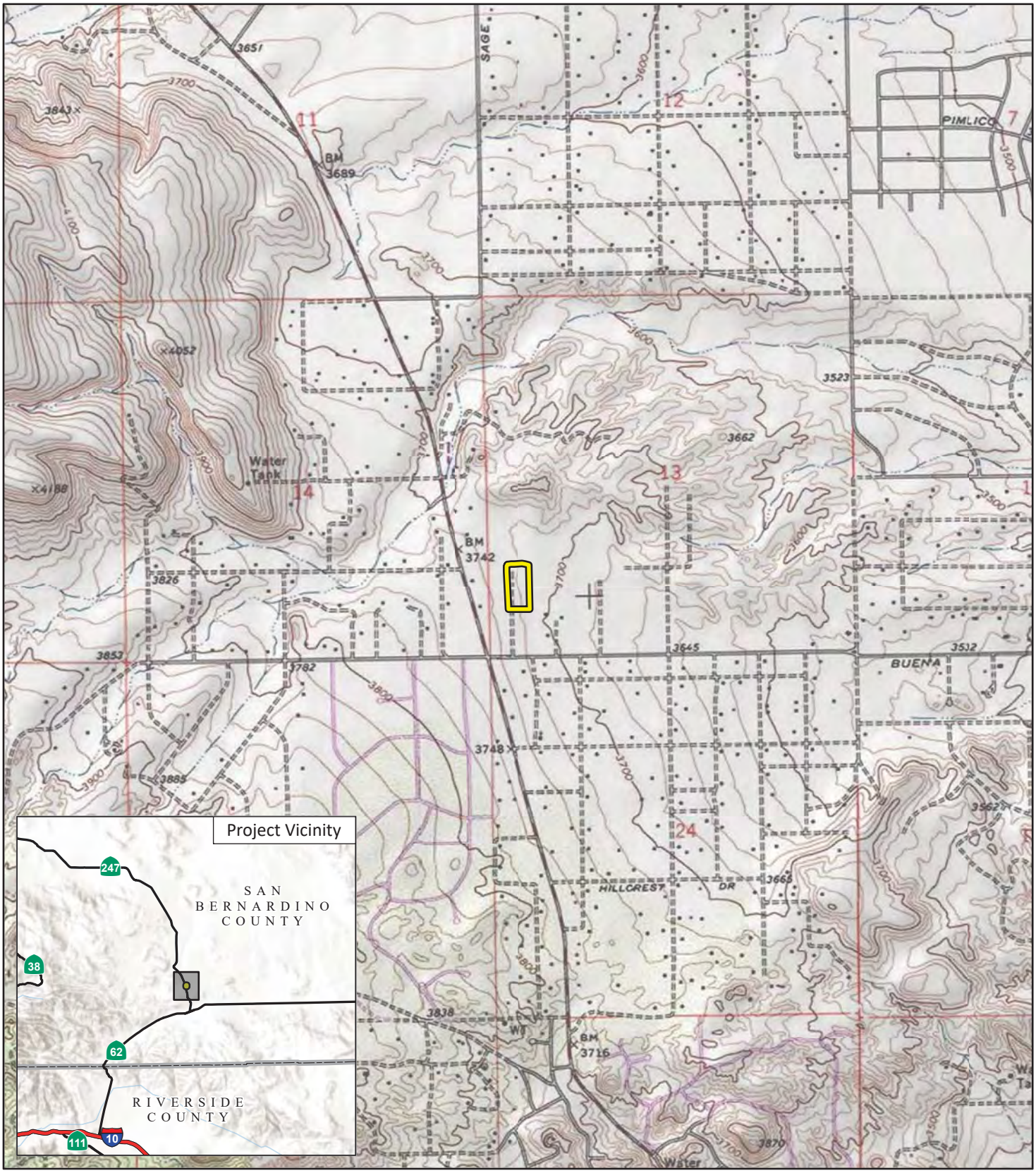
Table A: Vascular Plant Species Observed

Scientific Name	Common Name
Lycium cooperi	Peach thorn
Zygophyllaceae	**Caltrop family**
Larrea tridentata	Creosote bush
MONOCOTS FLOWERING PLANTS	
Agavaceae	**Agave family**
Yucca brevifolia	Joshua tree
Yucca schidigera	Mojave yucca

* non-native species

ATTACHMENT B

FIGURE 1



LSA

FIGURE 1

Sun Mesa (Billings) Mini Storage Project

Project Location

SOURCE: USGS 7.5' Quad - *Yucca Valley North (1989)*, CA

J:\20231230\GIS\Pro\Sun Mesa Mini Storage Project\Sun Mesa Mini Storage Project.aprx (11/16/2023)

APPENDIX C2

WESTERN JOSHUA TREE CENSUS REPORT

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

September 26, 2025

Daniel R. Patneaude
DRP Enterprises, LLC
P.O. Box 4428
Palm Springs, CA 92263

Subject: Western Joshua Tree Census for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California (LSA Project No. 20252490)

Dear Mr. Patneaude:

This letter report documents the results of a census of western Joshua trees (*Yucca brevifolia var. brevifolia*) conducted at the request of DRP Enterprises, LLC, for the Sun Mesa (Billings) Mini Storage project (project) on Assessor's Parcel Numbers 0597-111-67-0000. The 4.34-acre site is on the southwest corner of Newton Lane and Sun Mesa Road, north of Buena Vista Drive in Yucca Valley, San Bernardino County, California. Figure 1 (all figures provided in Attachment A) provides project location.

The Joshua tree census survey was conducted to comply with the permitting requirements of the Western Joshua Tree Conservation Act and California Department of Fish and Wildlife guidelines. This project is in the reduced fee area, as described in Fish and Game Code section 1927.3.

METHODS

The Western Joshua tree census was conducted on November 1, 2023, from 6:30 a.m. to 3:15 p.m. by LSA arborist Stan Spencer, senior biologist Christina Van Oosten and assistant biologist Eva Newby. Weather conditions during the census were clear, with winds of 0-2 miles per hour (mph) and temperatures from 66-78 Degrees Fahrenheit (°F).

The study area for the census includes the 4.34-acre project site plus a 15-meter (49-foot) buffer area around the site (Figure 2). They surveyed the study area on foot by walking 30-foot transects. The transect spacing provided for complete visual coverage of Joshua trees of all size classes on the site. As access was not provided to the buffer area, Joshua trees were surveyed from the edge of the project site (Assessor's Parcel Numbers 0597-111-67-0000). Each living or dead Joshua tree in the study area was assigned a unique identification number, tagged, photographed, and mapped using Global Positioning System (GPS) technology (datum WGS 84). Each Joshua tree stem or trunk arising from the ground was considered an individual tree. For each Joshua tree, the arborist recorded size class, maturity, and flowering/fruiting status. The collected information for each Joshua tree is provided in Table A (Attachment B). Figure 2 shows Joshua tree locations. Photographs of the Joshua trees are provided in Figure 3.

STAFF BACKGROUND

Dr. Spencer has a Ph.D. in botany from Claremont Graduate University (1997) and is an International Society of Arboriculture Certified Arborist (WE-9358A). He has conducted arborist studies throughout Southern California since 2003, including Joshua tree inventories in Los Angeles and San

Bernardino counties as well as Joshua tree relocation monitoring. Dr. Spencer is knowledgeable of Joshua tree ecology and identification and experienced in inventorying and assessing Joshua trees for general health and suitability for transplanting. Dr. Spencer can be contacted at 951-232-4124 or stan.spencer@lsa.net. Ms. Van Oosten has a B.S. in Zoology from California State Polytechnic University, Pomona (2008) and is a desert ecologist with more than 10 years' experience in the Southwest. She is knowledgeable of Joshua tree ecology and identification and experienced in inventorying and assessing Joshua trees for general health. Ms. Van Oosten is under the tutelage of Dr. Spencer to become an arborist herself and has conducted Joshua tree inventories in Kern and San Bernardino counties.

RESULTS

As shown in Table A, Joshua Tree Census Data, 98 Joshua trees were found in the study area: 87 on the project site and 11 in the buffer area. Fifty-eight of the 87 within the project site are alive, with 4 greater than 5 meters (16.4 feet), 27 are between 1 meter (3.8 feet) to less than 5 meters (16.4 feet), and the remaining 27 are less than 1 meter (3.8 feet) in height.

The 11 Joshua trees in the buffer area are spread through the eastern side of the project. Eight of the 11 are alive, with 1 greater than 5 meters (16.4 feet), 5 are between 1 meter (3.8 feet) to less than 5 meters (16.4 feet), and 2 are less than 1 meter (3.8 feet) in height. No Joshua tree seedlings were found in the study area or the buffer. No flowering or fruiting was observed for the current year.

If you have any questions about this Joshua tree census, please contact me at (626) 215-0329 or christina.vanoosten@lsa.net.

Sincerely,

LSA Associates, Inc.

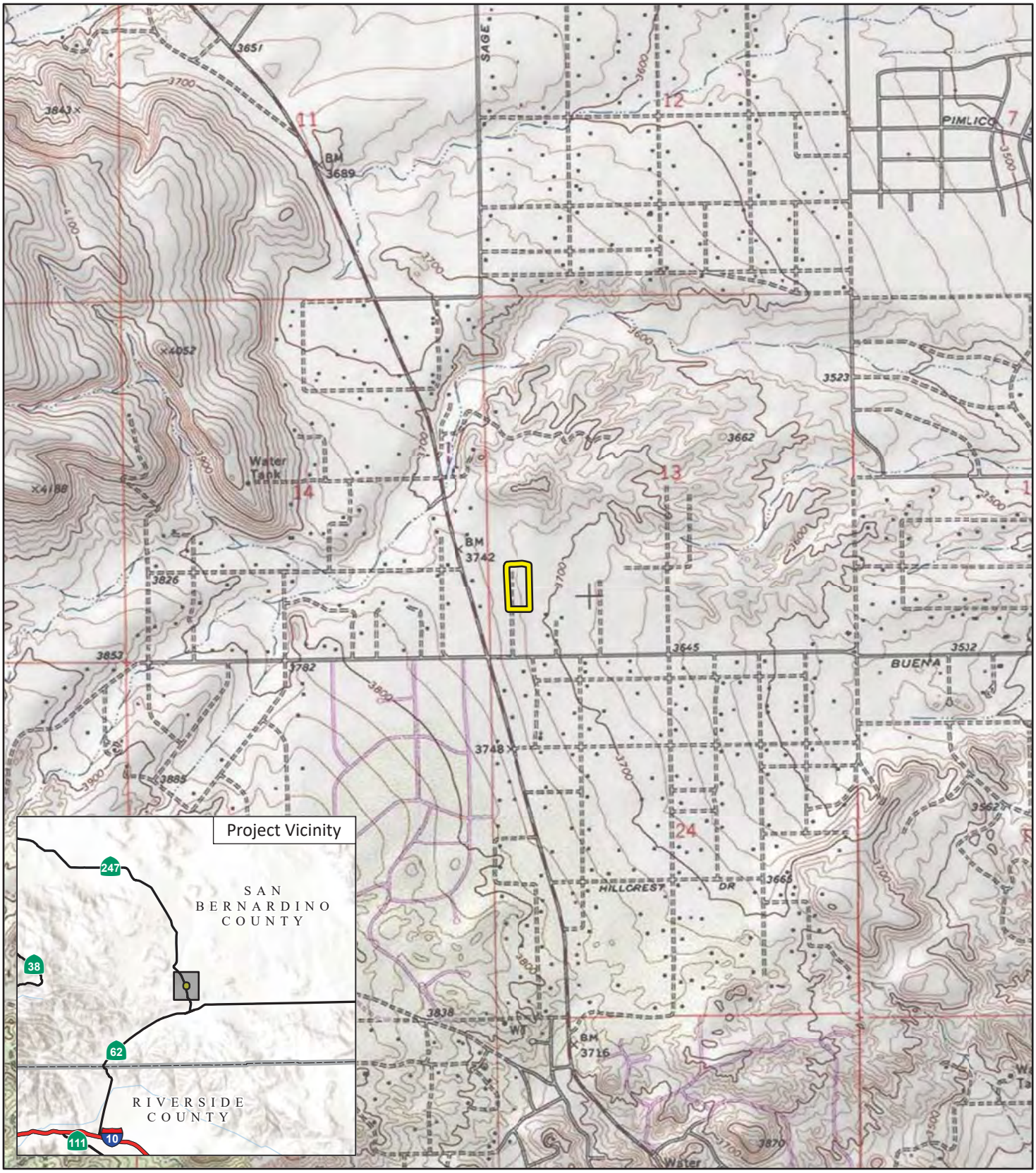
Christina Van Oosten
Senior Biologist

Attachments: A: Figure 1—Project Location
Figure 2—Joshua Tree Census
Figure 3—Representative Tree Photographs
B: Table A

ATTACHMENT A

FIGURES

Figure 1: Project Location
Figure 2: Joshua Tree Census
Figure 3: Joshua Tree Photographs



LSA

FIGURE 1

N

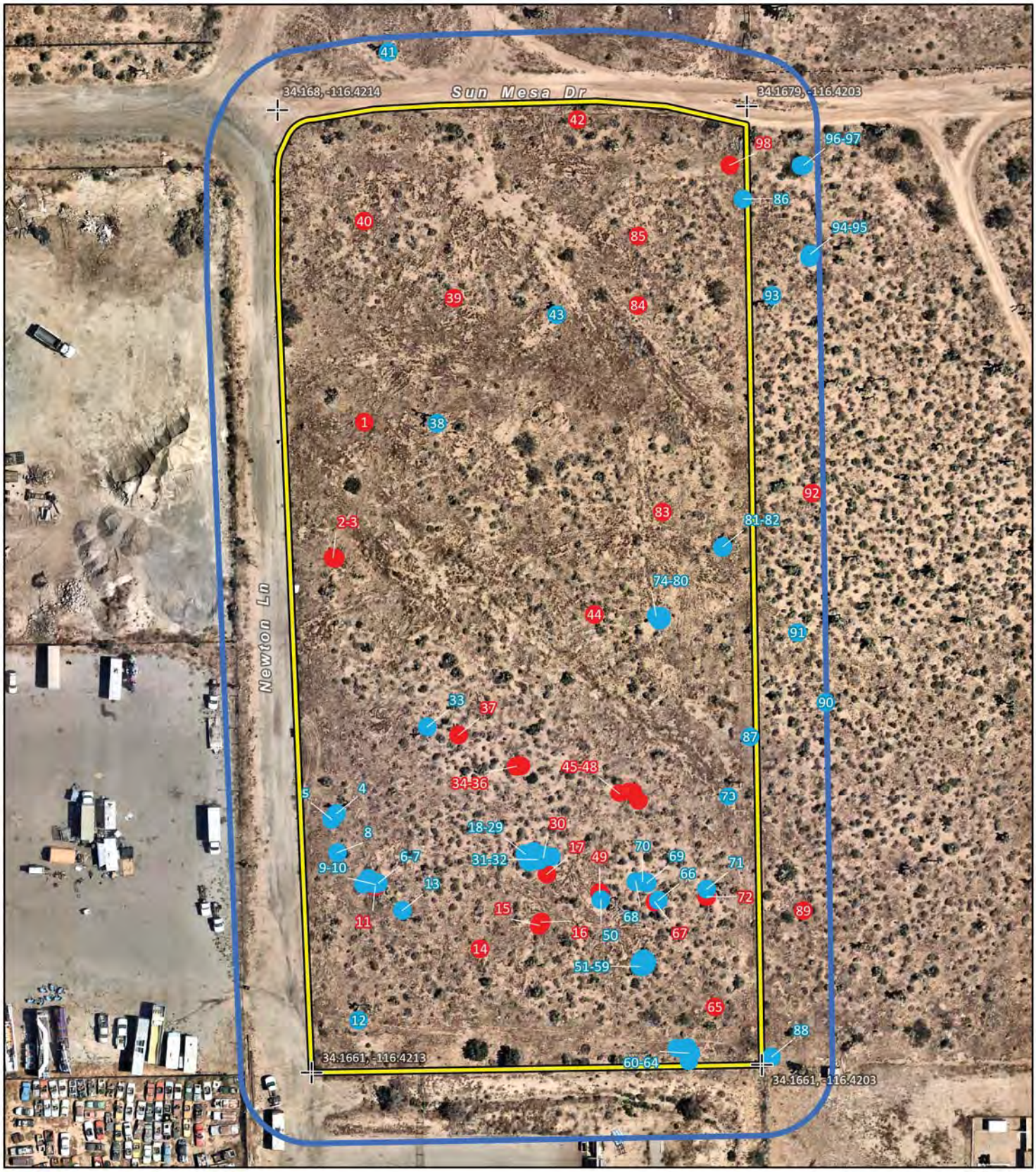
0 1000 2000
FEET

Sun Mesa (Billings) Mini Storage Project

Project Location

SOURCE: USGS 7.5' Quad - *Yucca Valley North (1989)*, CA

J:\20231230\GIS\Pro\Sun Mesa Mini Storage Project\Sun Mesa Mini Storage Project.aprx (11/16/2023)



LSA

Project Area

Study Area

Joshua Trees

Alive

Dead

0 14 28

Meters

FIGURE 2

Sun Mesa (Billings) Mini Storage Project

Joshua Tree Census

SOURCE: Nearmap Aerial Imagery (June 12, 2023)

J:\20231230\GIS\Pro\Sun Mesa Mini Storage Project\Sun Mesa Mini Storage Project.aprx (11/14/2023)

Photo 1: Tree 1

Photo 2: Tree 2

Photo 3: Tree 3

Photo 4: Tree 4

Photo 5: Tree 5

Photo 6: Tree 6

Photo 7: Tree 7

Photo 8: Tree 8

Photo 9: Tree 9

Photo 10: Tree 10

Photo 11: Tree 11

Photo 12: Tree 12

LSA

FIGURE 3
Page 1 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 13: Tree 13

Photo 14: Tree 14

Photo 15: Tree 15

Photo 16: Tree 16

Photo 17: Tree 17

Photo 18: Tree 18

Photo 19: Tree 19

Photo 20: Tree 20

Photo 21: Tree 21

Photo 22: Tree 22

Photo 23: Tree 23

Photo 24: Tree 24

LSA

FIGURE 3
Page 2 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 25: Tree 25

Photo 26: Tree 26

Photo 27: Tree 27

Photo 28: Tree 28

Photo 29: Tree 29

Photo 30: Tree 30

Photo 31: Tree 31

Photo 32: Tree 32

Photo 33: Tree 33

Photo 34: Tree 34

Photo 35: Tree 35

Photo 36: Tree 36

LSA

FIGURE 3
Page 3 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 37: Tree 37

Photo 38: Tree 38

Photo 39: Tree 29

Photo 40: Tree 40

Photo 41: Tree 41

Photo 42: Tree 42

Photo 43: Tree 43

Photo 44: Tree 44

Photo 45: Tree 45

Photo 46: Tree 46

Photo 47: Tree 47

Photo 48: Tree 48

LSA

FIGURE 3
Page 4 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 49: Tree 49

Photo 50: Tree 50

Photo 51: Tree 51

Photo 52: Tree 52

Photo 53: Tree 53

Photo 54: Tree 54

Photo 55: Tree 55

Photo 56: Tree 56

Photo 57: Tree 57

Photo 58: Tree 58

Photo 59: Tree 59

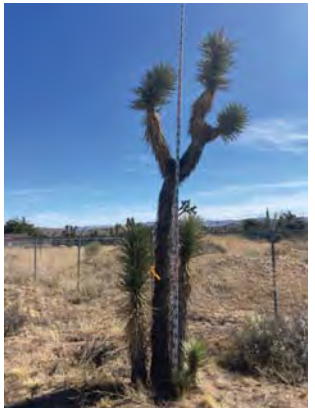


Photo 60: Tree 60

LSA

FIGURE 3
Page 5 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 61: Tree 61

Photo 62: Tree 62

Photo 63: Tree 63

Photo 64: Tree 64

Photo 65: Tree 65

Photo 66: Tree 66

Photo 67: Tree 67

Photo 68: Tree 68

Photo 69: Tree 69

Photo 70: Tree 70

Photo 71: Tree 71

Photo 72: Tree 72

LSA

FIGURE 3
Page 6 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 73: Tree 73

Photo 74: Tree 74

Photo 75: Tree 75

Photo 76: Tree 76

Photo 77: Tree 77

Photo 78: Tree 78

Photo 79: Tree 79

Photo 80: Tree 80

Photo 81: Tree 81

Photo 82: Tree 82

Photo 83: Tree 83

Photo 84: Tree 84

LSA

FIGURE 3
Page 7 of 9

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 85: Tree 85

Photo 86: Tree 86

Photo 87: Tree 87

Photo 88: Tree 88 in buffer. No property access.

Photo 89: Tree 89 in buffer. No property access.

Photo 90: Tree 90 in buffer. No property access.

Photo 91: Tree 91 in buffer. No property access.

Photo 92: Tree 92 in buffer. No property access.

Photo 69: Tree 69 in buffer. No property access.

Photo 70: Tree 70 in buffer. No property access.

Photo 71: Tree 71 in buffer. No property access.

Photo 96: Tree 96 in buffer. No property access.

LSA

FIGURE 3

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

Photo 97: Tree 97 in buffer. No property access.

Photo 98: Tree 98 in buffer. No property access.

LSA

FIGURE 3

Sun Mesa (Billings) Mini Storage
Representative Tree Photographs

I:\20231230\G\Tree_Photos.cdr (11/14/2023)

ATTACHMENT B

TABLE A

Table A: Joshua Tree Census Data

Tree Number	Latitude (WGS 84)	Longitude (WGS 84)	Size Class[1]	Live or Dead?	Mature (Branched)?	Flowering or Fruiting Stage?	Project Impact to Tree (Removal, Trim, Relocation, Other, or None)	Project Activity Within 15 Meters?
1	34.167359	-116.421207	B	Dead	Yes	None	Removal	Yes
2	34.167102	-116.421284	B	Dead	Unknown	None	Removal	Yes
3	34.167101	-116.421278	B	Dead	Yes	None	Removal	Yes
4	34.166611	-116.421285	C	Live	Yes	None	Removal	Yes
5	34.1666	-116.421296	B	Live	Yes	None	Removal	Yes
6	34.166477	-116.421191	B	Live	Yes	None	Removal	Yes
7	34.166487	-116.421214	B	Live	Yes	None	Removal	Yes
8	34.166536	-116.421284	A	Live	No	None	Removal	Yes
9	34.166475	-116.421199	A	Live	No	None	Removal	Yes
10	34.166476	-116.421226	A	Live	No	None	Removal	Yes
11	34.16647	-116.421199	B	Dead	Yes	None	Removal	Yes
12	34.166216	-116.421242	C	Live	Yes	None	Removal	Yes
13	34.166424	-116.421137	B	Live	Yes	None	Removal	Yes
14	34.166349	-116.42096	B	Dead	Yes	None	Removal	Yes
15	34.166392	-116.420823	B	Dead	Yes	None	Removal	Yes
16	34.166398	-116.420819	B	Dead	Unknown	None	Removal	Yes
17	34.166489	-116.420804	B	Dead	No	None	Removal	Yes
18	34.166528	-116.420854	B	Live	Yes	None	Removal	Yes
19	34.166525	-116.420811	B	Live	No	None	Removal	Yes
20	34.166529	-116.420833	B	Live	Unknown	None	Removal	Yes
21	34.166514	-116.420846	B	Live	No	None	Removal	Yes
22	34.166523	-116.42084	B	Live	No	None	Removal	Yes
23	34.166526	-116.420819	B	Live	No	None	Removal	Yes
24	34.166522	-116.420793	A	Live	No	None	Removal	Yes
25	34.166523	-116.420825	A	Live	No	None	Removal	Yes
26	34.166513	-116.420845	A	Live	No	None	Removal	Yes
27	34.166517	-116.420837	A	Live	No	None	Removal	Yes
28	34.166533	-116.420834	A	Live	Unknown	None	Removal	Yes
29	34.166518	-116.420816	A	Live	Yes	None	Removal	Yes
30	34.16652	-116.420812	A	Dead	No	None	Removal	Yes

Table A: Joshua Tree Census Data

Tree Number	Latitude (WGS 84)	Longitude (WGS 84)	Size Class[1]	Live or Dead?	Mature (Branched)?	Flowering or Fruiting Stage?	Project Impact to Tree (Removal, Trim, Relocation, Other, or None)	Project Activity Within 15 Meters?
31	34.166517	-116.420825	A	Live	No	None	Removal	Yes
32	34.166515	-116.420821	A	Live	No	None	Removal	Yes
33	34.166776	-116.421073	B	Live	Yes	None	Removal	Yes
34	34.166698	-116.42087	B	Dead	Yes	None	Removal	Yes
35	34.166699	-116.42086	B	Dead	Yes	None	Removal	Yes
36	34.1667	-116.420864	B	Dead	No	None	Removal	Yes
37	Yes	-116.421002	B	Dead	Unknown	None	Removal	Yes
38	Yes	-116.42104	C	Live	Yes	None	Removal	Yes
39	Yes	-116.420997	B	Dead	Yes	None	Removal	Yes
40	Yes	-116.42120	B	Dead	Yes	None	Removal	Yes
41	Yes	-116.421139	C	Live	Yes	None	Other (in buffer)	Yes
42	Yes	-116.420707	B	Dead	Yes	None	Removal	Yes
43	Yes	-116.420761	B	Live	Yes	None	Removal	Yes
44	Yes	-116.420685	B	Dead	Yes	None	Removal	Yes
45	Yes	-116.420634	B	Dead	Yes	None	Removal	Yes
46	Yes	-116.420603	B	Dead	Unknown	None	Removal	Yes
47	Yes	-116.420612	B	Dead	No	None	Removal	Yes
48	Yes	-116.420591	B	Dead	Unknown	None	Removal	Yes
49	Yes	-116.420684	B	Dead	Yes	None	Removal	Yes
50	Yes	-116.420681	C	Live	Yes	None	Removal	Yes
51	Yes	-116.420594	B	Live	Yes	None	Removal	Yes
52	Yes	-116.420586	B	Live	Yes	None	Removal	Yes
53	Yes	-116.420578	A	Live	Unknown	None	Removal	Yes
54	Yes	-116.420588	A	Live	No	None	Removal	Yes
55	Yes	-116.42058	A	Live	Unknown	None	Removal	Yes
56	Yes	-116.420594	A	Live	No	None	Removal	Yes
57	Yes	-116.420591	A	Live	Unknown	None	Removal	Yes
58	Yes	-116.42058	A	Live	No	None	Removal	Yes
59	Yes	-116.420587	A	Live	Unknown	None	Removal	Yes
60	Yes	-116.420486	B	Live	Yes	None	Removal	Yes

Table A: Joshua Tree Census Data

Tree Number	Latitude (WGS 84)	Longitude (WGS 84)	Size Class[1]	Live or Dead?	Mature (Branched)?	Flowering or Fruiting Stage?	Project Impact to Tree (Removal, Trim, Relocation, Other, or None)	Project Activity Within 15 Meters?
61	Yes	-116.420512	A	Live	No	None	Removal	Yes
62	Yes	-116.420485	A	Live	Unknown	None	Removal	Yes
63	Yes	-116.42048	B	Live	Yes	None	Removal	Yes
64	Yes	-116.420488	A	Live	No	None	Removal	Yes
65	Yes	-116.420423	B	Dead	Unknown	None	Removal	Yes
66	Yes	-116.420549	B	Live	Yes	None	Removal	Yes
67	Yes	-116.420558	B	Dead	Unknown	None	Removal	Yes
68	Yes	-116.42060	B	Live	Yes	None	Removal	Yes
69	Yes	-116.420574	B	Live	Unknown	None	Removal	Yes
70	Yes	-116.420585	A	Live	No	None	Removal	Yes
71	Yes	-116.420438	B	Live	Yes	None	Removal	Yes
72	Yes	-116.420438	B	Dead	No	None	Removal	Yes
73	Yes	-116.420384	B	Live	Yes	None	Removal	Yes
74	Yes	-116.420544	B	Live	Yes	None	Removal	Yes
75	Yes	-116.420537	B	Live	No	None	Removal	Yes
76	Yes	-116.420532	A	Live	Unknown	None	Removal	Yes
77	Yes	-116.420532	A	Live	No	None	Removal	Yes
78	Yes	-116.420536	A	Live	No	None	Removal	Yes
79	Yes	-116.420538	A	Live	Unknown	None	Removal	Yes
80	Yes	-116.420535	A	Live	Unknown	None	Removal	Yes
81	Yes	-116.420388	B	Live	Yes	None	Removal	Yes
82	Yes	-116.420389	B	Live	Unknown	None	Removal	Yes
83	Yes	-116.420526	B	Dead	Unknown	None	Removal	Yes
84	Yes	-116.420574	B	Dead	Unknown	None	Removal	Yes
85	Yes	-116.420571	B	Dead	Yes	None	Removal	Yes
86	Yes	-116.420329	B	Live	Yes	None	Removal	Yes
87	Yes	-116.420332	B	Live	Yes	None	Removal	Yes
88	Yes	-116.420295	B	Live	Unknown	None	Other (in buffer)	Yes
89	Yes	-116.420216	B	Dead	Unknown	None	Other (in buffer)	Yes
90	Yes	-116.420157	B	Live	Yes	None	Other (in buffer)	Yes

Table A: Joshua Tree Census Data

Tree Number	Latitude (WGS 84)	Longitude (WGS 84)	Size Class[1]	Live or Dead?	Mature (Branched)?	Flowering or Fruiting Stage?	Project Impact to Tree (Removal, Trim, Relocation, Other, or None)	Project Activity Within 15 Meters?
91	Yes	-116.42022	B	Live	Yes	None	Other (in buffer)	Yes
92	Yes	-116.420181	B	Dead	Yes	None	Other (in buffer)	Yes
93	Yes	-116.420266	B	Live	Yes	None	Other (in buffer)	Yes
94	Yes	-116.420176	B	Live	Yes	None	Other (in buffer)	Yes
95	Yes	-116.420179	A	Live	No	None	Other (in buffer)	Yes
96	Yes	-116.420189	A	Live	No	None	Other (in buffer)	Yes
97	Yes	-116.420195	B	Live	Yes	None	Other (in buffer)	Yes
98	Yes	-116.420359	B	Dead	Yes	None	Removal	Yes

Source: Compiled by LSA (2023)

[1] A = Height less than 1 meter (3.8 feet) ; B = Height 1 m (3.8 feet) to less than 5 m (16.4 feet); C = Height 5 m (16.4 feet) or more.

APPENDIX C3

PLANT SURVEY REPORT

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

September 26, 2025

Daniel R. Patneaude
DRP Enterprises, LLC
P.O. Box 4428
Palm Springs, CA 92263

Subject: Plant Survey for the Sun Mesa (Billings) Mini Storage Project in Yucca Valley, San Bernardino County, California (LSA Project No. 20252490)

Dear Mr. Patneaude:

This letter report documents the findings of a spring plant survey conducted at the request of DRP Enterprises, LLC, for the Sun Mesa (Billings) Mini Storage Project (project) on Assessor's Parcel Number 0597-111-67-0000. The 4.34-acre site is on the southwest corner of Newton Lane and Sun Mesa Road, north of Buena Vista Drive in Yucca Valley, San Bernardino County, California. The elevation of the project site ranges from approximately 3,710 to 3,726 ft above mean sea level (amsl). Figure 1 (provided in Attachment B) shows the project location.

The survey was conducted to document the presence of any special-status species detectable during the time of the survey. Yucca Valley's annual rainfall varies significantly year-to-year but generally receives around 3-6 inches of rain annually. The rainy season occurs from approximately late November to late March. The 2023-2024 season rainfall to date at the time of the survey, based on records at the Yucca Valley Airport, was 7.9 inches.[1] A survey had previously been conducted for Western Joshua tree (*Yucca brevifolia*), a State candidate species.

METHODS

The plant survey was conducted by LSA botanist Stan Spencer, PhD, and LSA biologists Christina Van Oosten and Julia Lung on May 7, 2024, from 9:45 and 11:50 a.m., for a total of 6 person hours of survey effort. The survey was conducted in a manner consistent with California Native Plant Society (CNPS) 2001 guidelines.[2] The entire project site and adjacent right-of-way areas were surveyed by systematically walking along 15-meter (50-foot) wide, parallel line transects. Adjacent habitat in private properties to the south and east of the project site were visually surveyed from the property boundary, as no access was provided to those properties. The survey was floristic in nature, and all species observed on the site, including annual species that were past flower or dessicated, were identified to the degree required to determine rarity status.

[1] Weather Underground. Past weather for Station L22 Airport - KCAYUCCA49, https://www.wunderground.com/dashboard/pws/KCAYUCCA49, accessed 15 September 2025.
[2] California Native Plant Society. *CNPS Botanical Survey Guidelines*. June 2, 2001.

RESULTS AND DISCUSSION

No special-status plant species were observed during the survey except Western Joshua tree. A list of plant species observed in the study area is provided in Table A (Attachment A).

Please contact me at (951) 690-6309 or Christina Van Oosten at (626) 215-0329 if you have any questions regarding the results of this study.

Sincerely,

LSA Associates, Inc.

Stan Spencer
Associate/Botanist

Attachments: A: Table A – Vascular Plant Species Observed
B: Figure 1

ATTACHMENT A

TABLE A: VASCULAR PLANT SPECIES OBSERVED

Table A: Vascular Plant Species Observed

Scientific Name	Common Name
CONIFERS	
Cupressaceace	**Cypress family**
Juniperus californica	California juniper
GNETOPHYTES	
Ephedraceae	**Ephedra family**
Ephedra nevadensis	Nevada jointfir
EUDICOT FLOWERING PLANTS	
Asteraceae	**Sunflower family**
Acamptopappus sphaerocephalus	Rayless goldenhead
Adenophyllum cooperi	Adenophyllum
Ambrosia dumosa	White bur-sage
Ambrosia salsola	Burrobrush
Baileya multiradiata	Desert marigold
Ericameria cooperi	Cooper's goldenbush
Stephanomeria exigua	Small wreath-plant
Boraginaceae	**Borage family**
Amsinckia tessellata	Bristly fiddleneck
Brassicaceae	**Mustard family**
*Brassica tournefortii**	Sahara mustard
*Hirschfeldia incana**	Shortpod mustard
*Sisymbrium altissimum**	Tall tumblemustard
*Sisymbrium irio**	London rocket
Cactaceae	**Cactus family**
Cylindropuntia echinocarpa	Silver cholla
Cylindropuntia ramosissima	Diamond cholla
Echinocereus engelmannii	Hedgehog cactus
Chenopodiaceae	**Saltbush family**
Atriplex canescens	Fourwing saltbush
Euphorbiaceae	**Spurge family**
Euphorbia albomarginata	Rattlesnake weed
Fabaceae	**Pea family**
Senegalia greggii	Catclaw
Senna armata	Spiny senna
Geraniaceae	**Geranium family**
*Erodium cicutarium**	Redstem stork's bill
Lamiaceae	**Mint family**
Salvia columbariae	Chia
Scutellaria mexicana	Bladder sage
Malvaceae	**Mallow family**
Sphaeralcea ambigua	Desert mallow
Nyctaginaceae	**Four-o'clock family**
Mirabilis laevis	Wishbone bush
Polygonaceae	**Buckwheat family**
Eriogonum fasciculatum	California buckwheat
Eriogonum maculatum	Buckwheat
Solanaceae	**Nightshade family**
Lycium andersonii	Water jacket

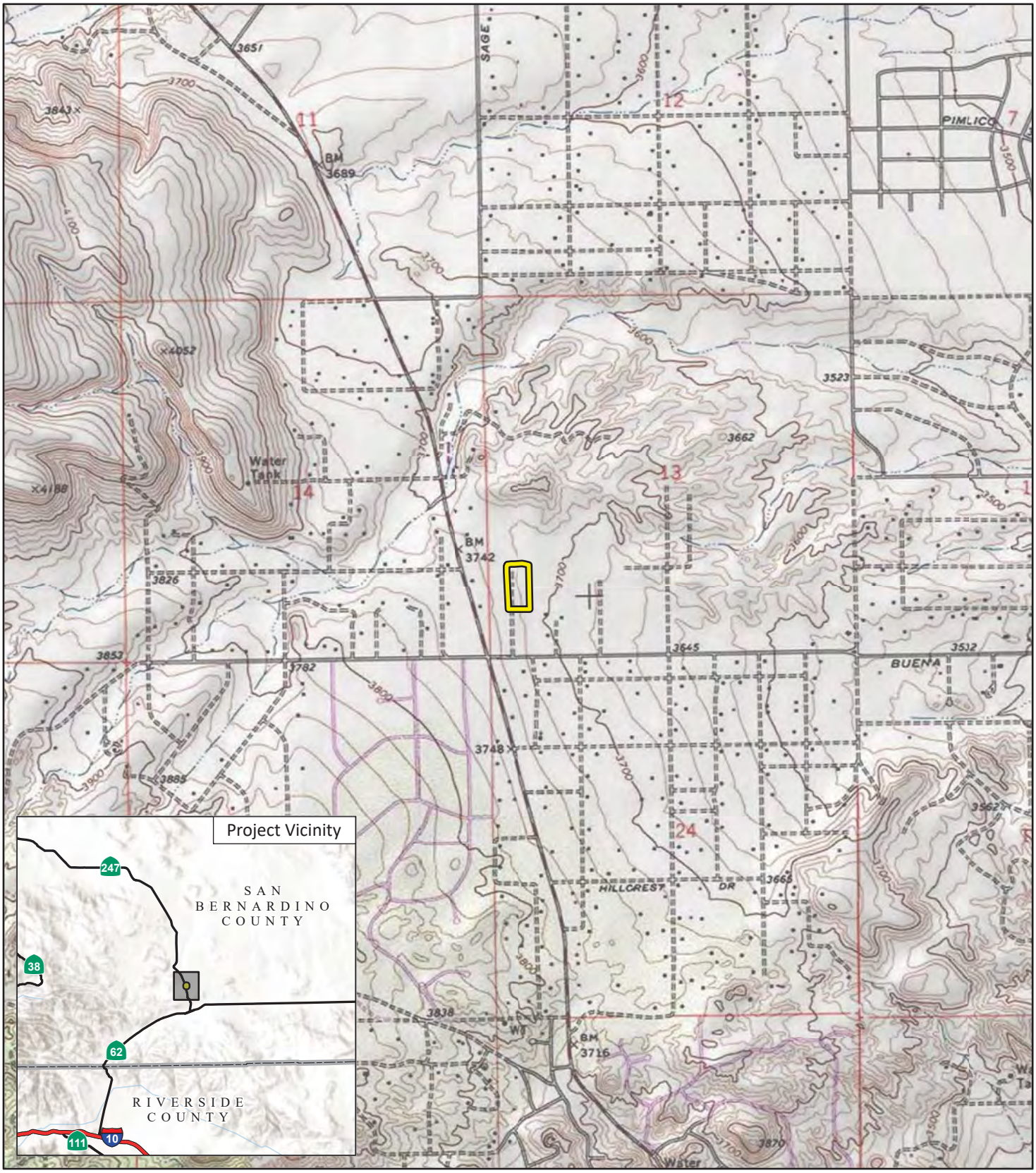
Table A: Vascular Plant Species Observed

Scientific Name	Common Name
Lycium cooperi	Peach thorn
Zygophyllaceace	**Caltrop family**
Larrea tridentata	Creosote bush
MONOCOTS FLOWERING PLANTS	
Agavaceae	**Agave family**
Yucca brevifolia	Joshua tree
Yucca schidigera	Mojave yucca

* non-native species

ATTACHMENT B

FIGURE 1



LSA

FIGURE 1

Sun Mesa (Billings) Mini Storage Project

Project Location

SOURCE: USGS 7.5' Quad - *Yucca Valley North (1989)*, CA

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APPENDIX D

CULTURAL RESOURCES ASSESSMENT

CULTURAL RESOURCES ASSESSMENT

SUN MESA MINI STORAGE PROJECT

TOWN OF YUCCA VALLEY

SAN BERNARDINO COUNTY, CALIFORNIA

LSA

August 2025

CULTURAL RESOURCES ASSESSMENT

SUN MESA MINI STORAGE PROJECT

TOWN OF YUCCA VALLEY

SAN BERNARDINO COUNTY, CALIFORNIA

Prepared for:

Daniel R. Patneaude
DRP Enterprises LLC
P.O. Box 4428
Palm Springs, California 92263

Prepared by:

Riordan Goodwin, RA, and Cassidy Sharp, RPA
LSA
1500 Iowa Avenue, Suite 200
Riverside, California 92507
(951) 781-9310

LSA Project No. 20252490

National Archaeological Data Base Information:

Type of Study: Records Search, Archaeological Survey
USGS Quadrangle: *Yucca Valley North, California*
Acreage: 4.34

LSA

August 2025

MANAGEMENT SUMMARY

LSA conducted a cultural resources assessment for the Sun Valley Mini Storage Project located in the Town of Yucca Valley, San Bernardino County, California. The assessment included a records search, archival research, field surveys, and this report. The subject property is approximately 5 acres. As the Lead Agency for the project, the Town of Yucca Valley (Town) required this study as part of the environmental review process to comply with the California Environmental Quality Act (CEQA).

The purpose of the study is to provide the County with the necessary information and analysis to determine, as mandated by CEQA, whether the proposed project would cause substantial adverse changes to any historical/archaeological resources that may exist in or around the project area. In order to identify and evaluate such resources, LSA conducted a historical/archaeological resources records search, pursued historical background research, and carried out pedestrian field surveys.

Through the various avenues of research, this study did not identify cultural resources within or adjacent to the project area. However, a prehistoric resource was documented less than 0.33 mile away, and approximately half of the project area surface was not visible. Therefore, the project parcel retains some potential for in situ subsurface cultural resources, and archaeological monitoring may be considered.

If buried cultural materials are encountered during earthmoving operations associated with the project, all work in that area should be halted or diverted until a qualified archaeologist can evaluate the nature and significance of the finds.

In the event human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be Native American, the County Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC. The MLD will have the opportunity to offer recommendations for the disposition of the remains.

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FIGURE

Figure 1: Regional and Project Location 3

APPENDIX

A: PERSONNEL QUALIFICATIONS

B: RECORDS SEARCH BIBLIOGRAPHY

INTRODUCTION

At the request of Mr. Daniel R. Patneaude, LSA performed a cultural resources study on 4.34 acres of land in the Town of Yucca Valley, San Bernardino County, California (see Figure 1). The subject property of the study, Assessor's Parcel Number (APN) 0597-111-67, is located at 4815 Newton Lane in Township 1 North, Range 5 East, Section 13, San Bernardino Baseline and Meridian, as depicted on the United States Geological Survey (USGS) *Yucca Valley North, California* 7.5-minute topographic quadrangle map. The study is part of the environmental review process for residential development. The County of San Bernardino (County), as Lead Agency for the project, required the study in compliance with the California Environmental Quality Act (CEQA) (Public Resources Code [PRC] § 21000, et seq.).

LSA performed the present study to provide the County with the necessary information and analysis to determine, as mandated by CEQA, whether the proposed project would cause substantial adverse changes to any historical/archaeological resources that may exist in or around the project area. In order to identify and evaluate such resources, LSA conducted a historical/archaeological resources records search, pursued historical background research, and carried out pedestrian field surveys. This report is a complete account of the methods, results, and final conclusion of the study.

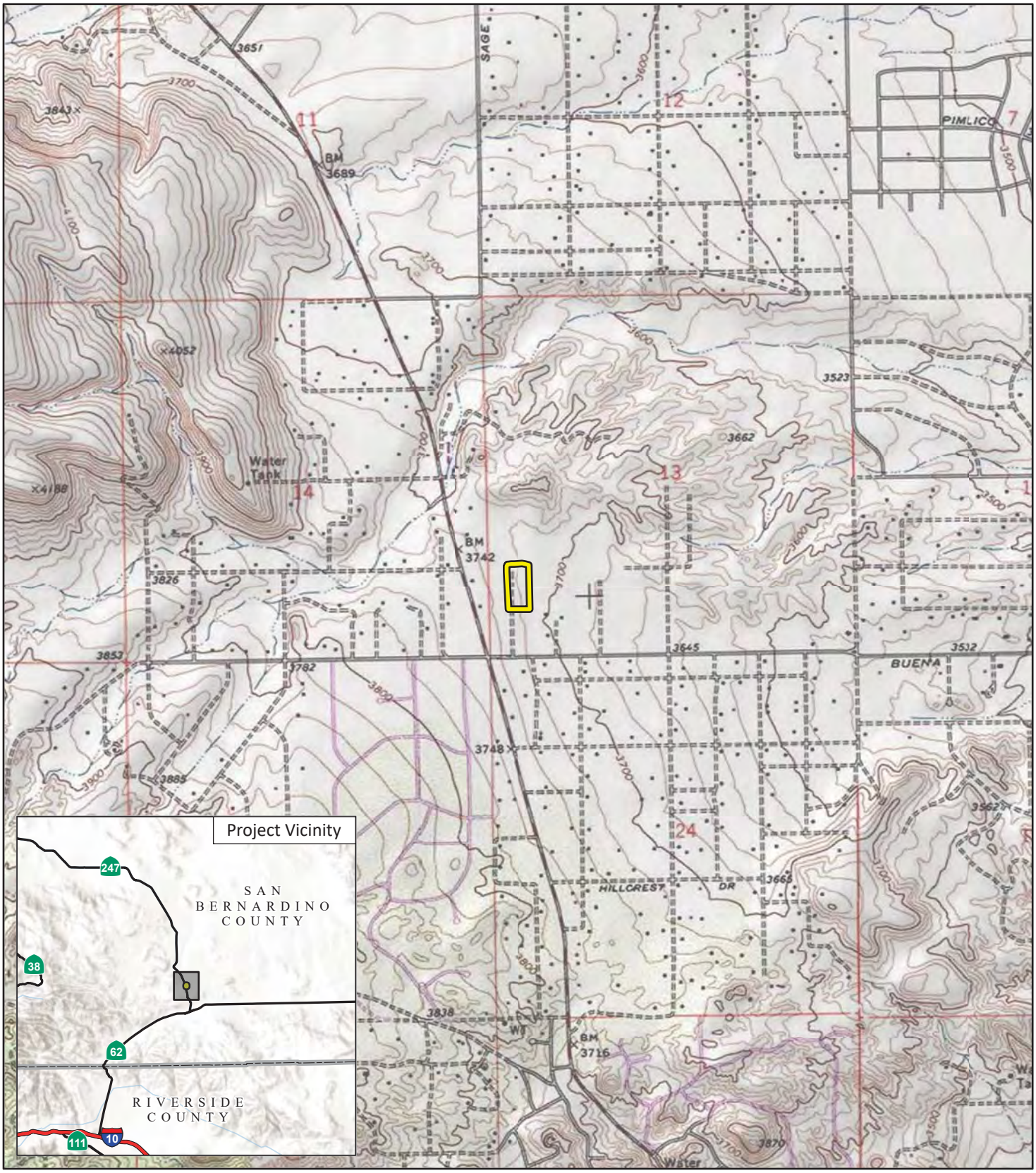
PROJECT LOCATION

The proposed Sun Mesa (Billings) Mini Storage development project site is located on Assessor's Parcel Number 0597-11-067, which is east of State Route 247 (SR-247) and north of Buena Vista Drive in the Town of Yucca Valley in San Bernardino County, California. The 4.34-acre project site is currently undeveloped. Access to the project site is provided by Buena Vista Drive, Sun Mesa Drive, and Newton Lane. Figure 1 (all figures provided in Attachment B) shows the project location.

PROJECT DESCRIPTION

The proposed project would involve the development of a 19-building, 89,700 total square foot (sf) mini storage facility. The site would be bounded by a maximum 10-foot (ft) high security fence and would consist of 18 storage buildings ranging from 4,800 to 7,500 sf in size evenly distributed around the site and one 400 sf manager's unit building. Two gated access driveways would be located along Newton Lane on the west side of the site. The manager's unit would be located at the northern entry gate. Additionally, outdoor parking stalls would be located on the north and east sides of the proposed manager's unit building. These parking areas would accommodate approximately 10 vehicles. A 5,911 sf retention basin would be located on the southwest corner of the project site. The proposed project would include associated site improvements including new internal roadways and utility improvements. Hours of operation of the proposed project would be between the hours of 6:00 a.m. and 10:00 p.m. 7 days per week.

The maximum depth of excavation for construction would be approximately 7 ft below the ground surface. Connections to utilities may require additional excavation up to 15 ft below the ground surface at limited locations on site. Construction is anticipated to begin later than the fall of 2024 and is anticipated to be completed within 12 months.



LSA

FIGURE 1

Sun Mesa (Billings) Mini Storage Project

Project Location

SOURCE: USGS 7.5' Quad - *Yucca Valley North (1989)*, CA

J:\20231230\GIS\Pro\Sun Mesa Mini Storage Project\Sun Mesa Mini Storage Project.aprx (11/16/2023)

SETTING

CURRENT NATURAL SETTING

Climate and Watershed

The project region is characterized by an arid climate, with dry, hot summers and moderate winters. Rainfall averages from 4.57 inches annually. Precipitation usually occurs in the form of winter rain, with warm monsoonal showers in summer. The project area is bracketed by two ephemeral drainages, which drain to the east.

Flora and Fauna

At an elevation of approximately 3,720 feet, the project is just within the Upper Sonoran Life Zone of California (Schoenherr 1992), which ranges from below sea level to 3,500 to 7,000 feet. Creosote, cholla, Joshua tree, and other native species were noted on the property. Extensive fauna are known locally, including many endemic species of reptiles, birds, and insects.

Geology

The project is located in the Mojave Desert Geomorphic Province, which forms an elevated alluvial plain with large expanses of desert punctuated by isolated mountain ranges (California Geological Survey 2002; Norris and Webb 1976). This province is located on a wedge-shaped fault block bounded by the San Andreas Fault Zone and Transverse Ranges to the southwest and the Garlock Fault Zone and Tehachapi Mountains to the north (California Geological Survey 2002; Norris and Webb 1976). Because the province extends into Nevada, the state line forms the eastern boundary for California (California Geological Survey 2002; Norris and Webb 1976). Precambrian through Mesozoic igneous, metamorphic, and sedimentary rocks comprise the basement and many of the mountains ranges throughout the province, while Cenozoic sedimentary and igneous rocks fill the basins, line the flanks of the mountain ranges, and form subordinate features (Norris and Webb 1976; Sharp 1976). The province has an enclosed drainage with many playas, or dry lakes, that currently only fill with water for a short period of time during storm events (California Geological Survey 2002; Sharp 1976). During the Pleistocene, however, these dry lakes may have been filled with water year-round (Norris and Webb 1976).

CULTURAL SETTING

Prehistory

Chronologies of prehistoric cultural change in Southern California area have been attempted numerous times, and several are reviewed in Moratto (2004). No single description is universally accepted as the various chronologies are based primarily on material developments identified by researchers familiar with sites in a particular region and variation exists essentially due to the differences in those items found at the sites. Small differences occur over time and space, which combine to form patterns that are variously interpreted.

Currently, two primary regional culture chronology syntheses are commonly referenced in the archaeological literature. The first chronology, developed by Wallace in 1955, describes four cultural

horizons or time periods: Horizon I – Early Man (9000–6000 BC), Horizon II – Milling Stone Assemblages (6000–3000 BC), Horizon III – Intermediate Cultures (3000 BC–AD 500), and Horizon IV – Late Prehistoric Cultures (AD 500–historic contact). This chronology was refined by Wallace in 1978 using absolute chronological dates obtained after 1955.

The second cultural chronology, developed by Warren in 1968, is based broadly on Southern California prehistoric cultures and was also later revised (Warren 1984; Warren and Crabtree 1986). Warren's revised chronology includes five periods in prehistory: Lake Mojave (7000–5000 BC), Pinto (5000–2000 BC), Gypsum (2000 BC–AD 500), Saratoga Springs (AD 500–1200), and Protohistoric (AD 1200–historic contact). Changes in settlement pattern and subsistence focus are viewed as cultural adaptations to a changing environment. These environmental changes began with gradual warming in the late Pleistocene, continued with the desiccation of the desert lakes followed by a brief return to pluvial conditions, and concluded with a general warming and drying trend, with periodic reversals that continue to the present (Warren and Crabtree 1986).

Ethnography

The project area is within the traditional cultural territory of the Serrano (Bean and Smith 1978). Like other Native American groups in Southern California, the Serrano were seminomadic hunter-gatherers who subsisted by exploitation of seasonably available plant and animal resources. They were first encountered by the Spanish missionaries in the late 18th century. The first written accounts of the Serrano are attributed to the mission fathers; later documentation was by Benedict (1924), Kroeber (1925), Strong (1929), and others.

Ethnohistorically, the Serrano Indians occupied portions of the central and western Mojave Desert, including the length of the Mojave River and much of present-day San Bernardino County and northeastern Los Angeles County (Sutton and Earle 2017). The term Serrano is Spanish for "mountaineer, highlander" (Bean and Smith 1978) and is derived from sierra, meaning "mountain range" (Bean and Smith 1978). This term was given to people who inhabited the areas of the San Bernardino Mountains that had no associated mission. The Serrano culture group actually incorporates distinct cultures of people that have similar linguistic patterns. These people are the Desert Serrano and the Mountain Serrano (Sutton and Earle 2017).

The Serrano were hunter-gatherers who relied on the women to do much of the collecting while the men captured various animals. The primary flora that they exploited depended on the exact area they inhabited but, generally speaking, they collected acorns, pinion nuts, honey, mesquite, yucca, and cactus fruits, in addition to various seeds, bulbs, and roots. The men hunted hare, rabbits, and rodents as the basis of their animal protein along with pronghorn, desert bighorn, and deer (Sutton and Earle 2017).

The most common hunting implements were the bow and arrow, throwing stick, traps, snares, and deadfalls. The bow and arrow were used for hunting large game, while the other items were used for smaller game and birds (Bean and Smith 1978). Meat was prepared in earth ovens, by boiling in watertight baskets, or by parching. Plants were consumed both raw and cooked. Food processing involved the use of manos, metates, mortars, and pestles. Flint knives, stone and bone scrapers,

ceramic trays and bowls, baskets, and horn and bone spoons and stirrers were also used (Bean and Smith 1978).

Most Serrano lived in small villages near water, primarily the Mojave River (Sutton and Earle 2017), and also perennial seeps, streams, and small lakes. The availability of water largely determined the nature, duration, and distribution of Serrano settlements (Benedict 1924 in Bean and Smith 1978). Family dwellings were circular, domed, willow-frame structures covered with tule thatching (Bean and Smith 1978). Dwellings contained a central fire pit and were used primarily for sleeping and storage.

The Late Prehistoric natives of the Serrano area practiced cremation of the dead. Most of a deceased individual's personal possessions were burned with the body. One month after death, other possessions were burned. A seven-day mourning ceremony was held annually. At this time, gifts and shell money were distributed (Strong 1929 in Bean and Smith 1978).

With the Spanish intrusion came a drastic change in lifestyle for the natives of Southern California. Incorporation of the indigenous populations into the mission system led to the disruption of native cultures and changes in subsistence and land use practices. Mission San Gabriel, established in 1771, probably had a limited effect on the Serrano population until the asistencia was established near Redlands, perhaps as early as 1819 (Harley 1988). Cattle ranches/farms were established on or near Indian villages, primarily in the major drainages conducive to horticulture and animal husbandry. Within a short time, the missions controlled many ranchos where Indians lived and worked.

After 1820, most of the Serrano in the San Bernardino Valley were moved to Mission San Gabriel. Land near ancestral villages was cleared for farming and water was diverted for irrigation and stock. The mission's expansion drastically affected native plants and animals, and human populations were decimated by European introduced diseases, conflicts, and forced labor. Further declines in local population occurred as the Native Americans retreated to isolated sanctuaries in the mountains (Bean and Smith 1978).

History

In California, the historic era is generally divided into three periods: the Spanish Period (1769–1821), the Mexican Period (1821–1848), and the American Period (1848–present). As there were no resources within the project area, the historic context will focus on the County and local community during the American Period.

San Bernardino County was created from parts of Los Angeles and San Diego Counties in 1853. In 1854, the City of San Bernardino was incorporated as the County Seat. Produce ultimately assumed prominence as the County's economic base, with tens of thousands of acres under cultivation by the beginning of World War I (McGroarty 1914).

Yucca Valley

The remote region of the Mojave Desert that includes the area that would become the community of Yucca Valley was initially explored for watering holes and transportation routes by individuals such as Paulino Weaver, who pioneered a route for cattle in the early 1850s. The "Morongo Pass

and Route" ran through Morongo and Yucca Valleys to the Oasis of Mara (Twentynine Palms) and ultimately to the Colorado River. State Route 62 follows much of this original route (Warren and Roske 1981). Cattle were driven from Arizona and New Mexico into Yucca Valley for spring pasturage for a few years during the 1870s (Brock and Elliot 1987). By the early 1910s, the first local homesteads were established on 160-acre tracts under the provisions of the Homestead Act of 1862 (O'Neal 1980; Garrett 1992). Homesteading continued in the area, primarily for the purposes of cattle ranching, until the end of the Depression era (Wilson and Grubb 1984).

From the early 1920s, the community that would become Yucca Valley was initially known as Lone Star, for Walter Harrell's Lone Star Ranch that introduced the first gas pump to the Valley (Wilson and Grubb 1984, Hernandez 2005). By the end of World War II, the local population had increased to the point of warranting their own post office, which was established in 1945 (Wilson and Grubb 1984). Three thousand acres were purchased that same year by the Yucca Village Company, subdivided the following year, water service was acquired and the area was tentatively named Yucca Village in 1947 (Wilson and Grubb 1984, Hernandez 2005). The community grew in the ensuing decades but the name was ultimately unsatisfactory, and the community was incorporated as Yucca Valley in 1991 (Hernandez 2005).

METHODS

Records Search

On July 11, 2024, a cultural resources records search was conducted for the current project area at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. The SCCIC houses the pertinent archaeological site and survey information necessary to determine whether cultural resources are recorded within the study area boundaries and which specific areas have been previously surveyed. The research included a review of all recorded historic and prehistoric archaeological sites within one mile of the project, as well as a review of known cultural resource survey and excavation reports.

Additional Research

In July 2024, Mr. Goodwin reviewed online historic period aerial photographs (NETR Online 2024) and USGS (United States Geological Survey) topographic maps (*Yucca Valley North,* Calif. 7.5 minute quadrangle, 1989, 1975, 1965, 1958, and 1957).

Archaeological Field Survey

On July 20, 2024, LSA Archaeologist Cassidy Sharp surveyed the project area for any cultural residues (prehistoric or historic artifacts, deposits, or features). Linear transects at 10-meter intervals were utilized to systematically examine the surface. Particular attention given to all areas of potentially native (undisturbed) soils, exposed rocks, and rodent back dirt.

RESULTS

RECORDS SEARCH

Data from the SCCIC indicate there have been 16 previous cultural resources studies conducted within the 1-mile study radius, none of which included portions of the project area (see Appendix A). Although no cultural resources have been recorded within or near the project area, three are documented within 1 mile: one prehistoric resource (36-002379, an artifact scatter), and two historic period resources (36-027695, a 1950s residence at 4451 Old Woman Springs Road and 36-010716, a segment of Old Woman Springs Road, a route dating to the 19th century). The historic period road (36-010716) is the nearest historic resource to the project site, approximately 160 meters/530 feet to the west, and the nearest prehistoric resource (36-002379) is approximately 0.29 mile southwest of the project site.

Additional Research

No buildings or structures were present within the project area in historic period aerial photos or indicated on maps (NETR Online 2024).

ARCHAEOLOGICAL FIELD SURVEY

The field survey revealed that there was light disturbance in the area from foot and bicycle traffic. Overall visibility was poor, at approximately 50 percent with the surface substantially obscured by vegetation. Access was not inhibited by vegetation. Soils are sandy alluvial silt. Trace historic period isolated rusted cans were noted. Concrete debris were noted, along with modern refuse throughout the project area. No cultural resources were identified.

RECOMMENDATIONS

Through the various avenues of research, this study did not identify cultural resources within or adjacent to the project. However, a prehistoric resource was documented less than 0.33 mile away, and approximately half of the project area surface was not visible. Therefore, the project parcel retains some potential for in situ subsurface cultural resources, and archaeological monitoring may be considered.

If archaeological materials are encountered during construction, all construction work should be halted and a qualified archaeologist consulted to determine the appropriate treatment of the discovery (California Code of Regulations, Title 14, Chapter 3, Section 15064.5(f)).

If human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be Native American, the County Coroner will notify the Native American Heritage Commission (NAHC), which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC. The MLD will have the opportunity to offer recommendations for the disposition of the remains.

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APPENDIX A

PERSONNEL QUALIFICATIONS

RIORDAN GOODWIN, RA
ASSOCIATE / ARCHAEOLOGIST

EXPERTISE

- Historical and Military Archaeology
- Historical Research
- Phase I Surveys
- Phase II Test Excavation Programs
- Cultural Resources Monitoring
- Native American Consultation

EDUCATION

Anthropology Graduate Program, San Diego State University, 1993

B.A. in Anthropology, San Diego State University, 1987

Undergraduate Studies, Palomar Community College, San Marcos, California, 1984-1986

PROFESSIONAL EXPERIENCE

Archaeologist, Laboratory Manager, Field Supervisor Project Manager, Paleontological Technician, LSA, Riverside, California, 2001–Present

Senior Archaeologist, Earth Tech, Colton, California, 2000

Staff Archaeologist/Historian, Archaeological Resource Management, San Jose, California, 1998–2000

Field Archaeologist, Archaeor, Mission San Jose, California, 1998

PROFESSIONAL RESPONSIBILITIES

Mr. Goodwin has extensive experience as Principal Investigator, Co-principal Investigator, and contributing specialist on cultural resource assessments, historic architectural evaluations, constraints analyses, Phase II testing, and Phase III data recovery programs. He has written, co-written, contributed to and peer-reviewed CEQA and National Historic Preservation Act (NHPA) Section 106-level California Office of Historic Preservation (OHP) and Caltrans-format cultural resource assessments, archaeological testing and monitoring reports, historic building inventories and evaluations, management plans, Historic American Buildings Survey/Historic American Engineering Record (HABS/HAER) documentation, and Department of Parks and Recreation (DPR) forms. His 33 years of experience includes both California Register of Historical Resources (California Register) and National Register of Historic Places (National Register)-level work in Riverside and San Bernardino counties involving survey, testing, data recovery, monitoring programs, and Native American consultation.

PROJECT EXPERIENCE

Mr. Goodwin has performed hundreds of Phase I cultural resources assessments, which included resource documentation, and many Phase II archaeological testing programs for projects ranging in size from a fraction of an acre to more than 1,000 acres. Selected projects include the following.

AIRPORTS

CITY OF PALM SPRINGS, PALM SPRINGS INTERNATIONAL AIRPORT

Palm Springs, Riverside County, California

Mr. Goodwin conducted the Phase I field survey of World War II-era U.S. Army airfield features, documented historic period airfield features, updated resource documentation, assisted with architectural survey, prepared the report, and responded to comments from the Federal Aviation Administration.

City of Camarillo, Camarillo Airport
Camarillo, Ventura County, California

Mr. Goodwin conducted historical research and contributed to the evaluation of Cold War-era built environment associated with Tactical Air Command activities at the airport.

ALTERNATIVE ENERGY

SUNPEAK SOLAR, LLC, CHUCKWALLA VALLEY SOLAR

Desert Center, Riverside County, California

Mr. Goodwin led the Phase I survey of more than 700 acres of former World War II-era U.S. Army training areas, documented prehistoric and historic-period resources, prepared draft district records, and coordinated with the Bureau of Land Management.

Staff Archaeologist, Holman & Associates, San Francisco, California, 1997

Staff Archaeologist/Historical Researcher, Computer Sciences Corporation, Edwards Air Force Base, California, 1994–1996

Staff Archaeologist, BFSA, Poway, California, 1989–1992

PROFESSIONAL CERTIFICATIONS/ REGISTRATIONS

Registered Archaeologist (RA)

SPECIALIZED TRAINING

BNSF Railway Safety Training

County of Riverside Cultural Sensitivity Training

HAZMAT 40 Hour

Unexploded Ordnance Awareness 8 hour

Desert Tortoise Awareness Training

PROFESSIONAL AFFILIATIONS

Register of Professional Archaeologists, Society for California Archaeology

COMMERCIAL DEVELOPMENT

OSI PARTNERSHIP I, LLC BANNING BUSINESS PARK PROJECT

Banning, Riverside County, California

Mr. Goodwin conducted the Phase II testing program, documented and evaluated historic period resources, managed the laboratory, contributed to the report, and arranged for disposition of the artifact collection for this project.

City of Murrieta, CarMax Murrieta Project
Murrieta, Riverside County, California

Mr. Goodwin conducted the record search and Phase I field survey, updated resource documentation, and prepared the report for this project.

City of Murrieta, CVS Pharmacy Project
Murrieta, Riverside County, California

Mr. Goodwin conducted the records search and Phase I field survey, documented and evaluated resources, and prepared the report for this project.

City of Murrieta, Murrieta Hot Springs
Murrieta, Riverside County, California

Mr. Goodwin conducted the record search, Phase I survey, site record update, Phase II archaeological testing, and laboratory analysis, and prepared the report for this project.

County of Riverside, Alessandro Commerce Center
Riverside County, California

Mr. Goodwin assisted with the Phase I survey, conducted the Phase II testing program, supervised the monitoring program, coordinated with Native American tribes, updated resource recordation, and prepared the report.

County of Riverside, Gateway Center Specific Plan
Riverside County, California

Mr. Goodwin led the Phase I field survey, updated prehistoric resource documentation, conducted Phase II testing, evaluated resources, conducted Native American consultation on behalf of the County, and prepared the report for this project.

EDUCATION/INSTITUTIONAL

CITY OF PERRIS, CLEARWATER ELEMENTARY SCHOOL PROJECT

Perris, Riverside County, California

Mr. Goodwin conducted the records search and Phase I field survey and prepared the report for this project.

Perris Union High School District, Perris Union High School No. 4
Riverside County, California

Mr. Goodwin conducted the Phase I field survey, site record update, Phase II testing, laboratory analysis of prehistoric artifacts, protracted Native American consultation on behalf of Perris Union High School District, and prepared the report for this project. He also supervised the Phase IV monitoring program, prepared the monitoring report, and arranged for curation of the artifact collection with Pechanga Band of Luiseño Indians.

INDUSTRIAL

CITY OF RIALTO, WILLOW AVENUE WAREHOUSE PROJECT

Rialto, San Bernardino County, California

Mr. Goodwin conducted the record search and Phase I field survey and prepared the report for this project.

City of Riverside, Cottonwood Warehouse Project
Riverside, Riverside County, California

Mr. Goodwin conducted the record search and Phase I field survey and prepared the report for this project.

MISCELLANEOUS

BRENT ENGINEERING, RIVERSIDE PROJECT

Riverside County, California

Mr. Goodwin coordinated the Phase I field survey, documented resources, conducted research and documentation, and prepared the report and follow-up revised report for this project.

MIXED-USE

CITY OF INDIO, INDIO VARNER ROAD MIXED-USE PROJECTS

Indio, Riverside County, California

Mr. Goodwin conducted the record search and Phase I field survey, and prepared the report for this project.

NATIVE AMERICAN TRIBES

DESERT CAHUILLA AGRICULTURAL CORPORATION/TORRES-MARTINEZ DESERT CAHUILLA INDIANS, SMTC PROJECT

Riverside County, California

Mr. Goodwin conducted the Phase I survey and research, coordinated with the president of the Torres-Martinez Desert Cahuilla Indians' Desert Cahuilla Agricultural Corporation, and prepared the report for this project.

County of Riverside, SunCal, McSweeny Farms Residential Development
Riverside County, California

Mr. Goodwin participated in Phase II testing of prehistoric sites and coordinated disposition of the artifact collection with designated Most Likely Descendant, Soboba Band of Luiseño Indians.

Perris Union High School District, Perris Union High School No. 4
Riverside County, California

Mr. Goodwin conducted the Phase I field survey, site record update, Phase II testing, laboratory analysis of prehistoric artifacts, protracted Native American consultation on behalf of Perris Union High School District, and prepared the report for this project. He also supervised the Phase IV monitoring program, prepared the monitoring report, and arranged for curation of the artifact collection with Pechanga Band of Luiseño Indians.

Caltrans, State Route 210 Project
San Bernardino, San Bernardino County, California

Mr. Goodwin conducted the archaeological monitoring program, recovered prehistoric human remains, coordinated closely with Native American tribes and the County Coroner, and prepared a monitoring report in accordance with Caltrans Standard Environmental Reference guidelines, Section 106, and CEQA for District 8. Caltrans approved the report.

United States Army Corps of Engineers, Monteolivo Project
Corona, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, and assisted with Section 106 Native American consultation on behalf of the United States Army Corps of Engineers. He documented historic period resources and prepared the report for this project.

City of Hemet, Exchange Club Park
Hemet, Riverside County, California

Mr. Goodwin supervised and led the archaeological monitoring program, coordinated with Native American tribes and the County Inspector, and prepared the monitoring report.

Caltrans and County of Riverside, Cajalco Road and Alexander Road Project
Riverside County, California

Mr. Goodwin supervised and led the archaeological monitoring program, conducted research, coordinated with Native American tribes, Caltrans, and the County Inspector, and prepared the monitoring report.

County of Riverside, 42500 Washington Street Project
Bermuda Dunes, California

Mr. Goodwin conducted Native American scoping, cultural resources research, a record search and Phase I field survey, coordinated with the County of Riverside and other consultants, and prepared the report.

County of Riverside, Briggs Road Improvements at Warm Springs
Riverside County, California

Mr. Goodwin supervised and led the archaeological monitoring program, coordinated with Native American tribes and the County Inspector, and prepared the monitoring report.

County of Riverside, Gateway Center Specific Plan
Riverside County, California

Mr. Goodwin led the Phase I field survey, updated prehistoric resource documentation, conducted Phase II testing, evaluated resources, conducted Native American consultation on behalf of the County of Riverside, and prepared the report.

County of Riverside, Santa Ana River Trail Project
Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, assisted the County of Riverside with Native American consultation, documented and evaluated historic period resources, and prepared the report.

PUBLIC AGENCIES

CITY OF MENIFEE, CHIC-FIL-A MENIFEE PROJECT

Riverside County, California

Mr. Goodwin supervised and conducted the Phase IV cultural resources monitoring program, compiled the administrative record, provided logistical support, prepared the monitoring report.

City of Menifee, Newport Towne Square II Project
Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, prepared an assessment report, supervised and conducted the Phase IV cultural resources monitoring program, compiled the administrative record, and prepared the monitoring report.

City of Menifee, Menifee Boulders Project
Riverside County, California

Mr. Goodwin conducted the Phase I survey, documented prehistoric resources, Native American consultation on behalf of Caltrans District 8, and prepared the Historic Property Survey Report (HPSR) and the Archaeological

Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference guidelines, Section 106, and CEQA. Caltrans approved the HPSR and ASR.

City of Menifee, Caliber Collision Body Shop Project
Riverside County, California

Mr. Goodwin conducted the Phase I field survey, prepared the report, coordinated with the City and responded to tribal comments for a revised report.

City of Menifee, Boulders Mixed-Use Project
Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, obtained Sacred Lands File search results from the NAHC and coordinated with tribes on behalf of the City, documented prehistoric resources and prepared the assessment report.

City of Menifee, Menifee Valley Specific Plan Project
Riverside County, California

Mr. Goodwin peer-reviewed a Phase I assessment and conducted follow-up on response to comments.

County of Sonoma, Adobe Road and Main Street Intersection Improvements Project
Sonoma County, California

Mr. Goodwin directed the Phase I survey, research, and coordinated Native American consultation on behalf of the County of Sonoma. He noted historic period resources and prepared the report.

Riverside County Flood Control and Water Conservation District, Banning MDP Line H Stage 1 Storm Drain Project
Banning, Riverside County, California

Mr. Goodwin supervised and conducted the Phase IV cultural resources monitoring program, documented and evaluated historic period resources, compiled the administrative record, provided logistical support, prepared the monitoring report, and coordinated closely with the Riverside County Flood Control and Water Conservation District, including curation of the artifact collection at the District office.

Caltrans, Potrero Road/State Route 60 Project
Beaumont, Riverside County, California

Mr. Goodwin conducted the Phase I survey, Native American consultation on behalf of Caltrans District 8, and prepared the Historic Property Survey Report (HPSR) and the Archaeological Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference guidelines, Section 106, and CEQA. Caltrans approved the HPSR and ASR.

Caltrans and City of Colton, Colton Crossing Grade Separation
Colton, San Bernardino County, California

Mr. Goodwin conducted the Phase I survey and Extended Phase I (XPI) archaeological testing of a segment of BNSF Railway; designed and supervised the ground-penetrating radar program; documented and evaluated historic-period resources; coordinated research; supervised laboratory analysis; conducted Native American consultation on behalf of Caltrans; prepared a Caltrans-format Historic Property Survey Report, Archaeological Resources Report, and XPI Report; and contributed to the Historic Resources Evaluation Report in accordance with Caltrans Standard Environmental Reference guidelines, Section 106, and CEQA. He also arranged for disposition of the artifact collection.

City of Corona, Corona 720 Project
Corona, Riverside County, California

Mr. Goodwin conducted the Phase I field survey, documented resources, updated resource documentation, prepared the report, and conducted follow-up for a revised report.

United States Army Corps of Engineers, Monteolivo Project
Corona, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, and Native American consultation on behalf of the United States Army Corps of Engineers. He documented historic period resources and prepared the report.

Caltrans, I-15/I-215 Interchange
Devore, San Bernardino County, California

Mr. Goodwin conducted the Phase I survey, assisted with Extended Phase I (XPI) survey/mapping; documented and evaluated historic-period resources; conducted research with the San Bernardino County Archaeologist; conducted additional research on equestrian trails; coordinated and collated multiple record searches; supervised and participated in an archaeological monitoring program; conducted Native American consultation on behalf of Caltrans; prepared Caltrans-format Historic Property Survey Report (HPSR), Archaeological Resources Report (ASR), and monitoring report; and contributed to the Historic Resources Evaluation Report (HRER) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA. The project received State Historic Preservation Office concurrence on the HPSR/HRER/ASR.

City of Fontana, Sierra Crest II Project
Fontana, San Bernardino County, California

Mr. Goodwin supervised and led the archaeological monitoring program, updated resource documentation, evaluated resources, and prepared the monitoring report.

City of Hemet, Exchange Club Park
Hemet, Riverside County, California

Mr. Goodwin supervised and led the archaeological monitoring program, coordinated with Native American tribes and the County of Riverside Inspector, and prepared the monitoring report.

Caltrans, Avenue 44 Bridge over the Coachella Valley Storm Water Channel
Indio, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, and Native American consultation on behalf of Caltrans, and prepared a Historic Property Survey Report and Archaeological Resources Report in accordance with Caltrans Standard Environmental Reference guidelines, Section 106, and CEQA.

City of Indio, Avenue 50 Improvements Project
Indio, Riverside County, California

Mr. Goodwin conducted the record search and Phase I field survey and co-authored the report.

City of Indio, Indio Varner Road Mixed-Use Projects
Indio, Riverside County, California

Mr. Goodwin conducted the record search and Phase I field survey and prepared the report.

City of Lake Elsinore, The Village Estates
Lake Elsinore, Riverside County, California

Mr. Goodwin conducted the Phase I field survey, site recordation, Phase II testing, and laboratory analysis of historic period artifacts. He also assisted with architectural evaluation and co-authored the report.

Caltrans, State Route 710 Extension
Los Angeles County, California

Mr. Goodwin participated in the historic architectural survey of several alternative routes for the transportation corridor from East Los Angeles to Pasadena. He assisted with preparation of the Historic Resources Evaluation Report.

City of Morgan Hill, Borello Ranch Project
Morgan Hill, Santa Clara County, California

Mr. Goodwin participated in Phase III salvage/data recovery of multiple inhumations at a prehistoric Ohlone mortuary complex including documentation of subsurface features, recovery of artifacts, laboratory analysis, monitoring, and logistical support. He contributed the historic context to the report.

City of Murrieta, CarMax Murrieta Project
Murrieta, Riverside County, California

Mr. Goodwin conducted the records search and Phase I field survey, updated resource documentation, and prepared the report.

City of Murrieta, CVS Pharmacy Project
Murrieta, Riverside County, California

Mr. Goodwin conducted the record search and Phase I field survey, documented and evaluated resources, and prepared the report.

City of Murrieta, Murrieta Hot Springs
Murrieta, Riverside County, California

Mr. Goodwin conducted the record search, Phase I survey, site record update, Phase II archaeological testing and laboratory analysis, and prepared the report.

Caltrans, Mid-Valley Bike Path
Palm Desert, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, Native American consultation on behalf of Caltrans, documented historic period resources, and prepared a Historic Property Survey Report and Archaeological Resources Report in accordance with Caltrans Standard Environmental Reference guidelines, Section 106, and CEQA.

Caltrans, Gene Autry Trail
Palm Springs, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, and Native American consultation on behalf of Caltrans, and prepared a Historic Property Survey Report (HPSR) and Archaeological Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference guidelines, Section 106, and CEQA. The project received State Historic Preservation Office concurrence on the HPSR/ASR.

City of Palm Springs, Boulders Development Project
Palm Springs, Riverside County, California

Mr. Goodwin conducted the record search and Phase I field survey, updated resource documentation, and prepared the report.

City of Palm Springs, Palm Springs International Airport
Palm Springs, Riverside County, California

Mr. Goodwin conducted the Phase I field survey of World War II-era U.S. Army airfield features, documented historic period airfield features, updated resource documentation, assisted with architectural survey, prepared the report, and responded to comments from the Federal Aviation Administration.

City of Perris, Clearwater Elementary School Project
Perris, Riverside County, California

Mr. Goodwin conducted the records search and Phase I field survey, and prepared the report.

City of Perris, Mercado Park Project
Perris, Riverside County, California

Mr. Goodwin conducted the archaeological monitoring program, coordinated with the City Inspector, and prepared the monitoring report.

City of Perris, Perris Circle Project
Perris, Riverside County, California

Mr. Goodwin supervised and led the archaeological monitoring program, coordinated with the City Inspector, and prepared the monitoring report.

City of Perris, Stratford Ranch Residential
Perris, Riverside County, California

Mr. Goodwin conducted the Phase I field survey, site record update, Phase II testing, and laboratory analysis, and prepared the report. He arranged for curation of artifact collection.

City of Rialto, Willow Avenue Warehouse Project
Rialto, San Bernardino County, California

Mr. Goodwin conducted the records search and Phase I field survey, and prepared the report.

Caltrans, Mission Boulevard Bridge Replacement
Riverside, Riverside County, California

Mr. Goodwin supervised the Phase I survey, assisted with mapping, conducted research, coordinated and collated records searches, supervised archaeological survey, conducted Native American consultation on behalf of Caltrans, prepared a Historic Property Survey Report (HPSR), Archaeological Resources Report (ASR), and monitoring report, and assisted with the Historic Resources Evaluation Report (HRER) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA. The project received State Historic Preservation Office (SHPO) concurrence on the HPSR/HRER/ASR.

City of Riverside, Cottonwood Warehouse Project
Riverside, Riverside County, California

Mr. Goodwin conducted the records search and Phase I field survey, and prepared the report.

Caltrans, Community Environmental Transportation Acceptability Process (CETAP) Project
Riverside County, California

Mr. Goodwin conducted an expansive historic architectural survey, compiled a built environment inventory, participated in Phase II testing, and edited the Historic Property Survey Report (HPSR).

Caltrans and County of Riverside, Cajalco Road and Alexander Road Project
Riverside County, California

Mr. Goodwin supervised and led the archaeological monitoring program, conducted research, coordinated with Native American tribes, Caltrans, and the County Inspector, and prepared the monitoring report.

County of Riverside, Alessandro Commerce Center
Riverside County, California

Mr. Goodwin assisted with the Phase I survey, conducted the Phase II testing program, supervised the monitoring program, coordinated with Native American Tribes, updated resource recordation, and prepared the report.

County of Riverside, Briggs Road Improvements at Warm Springs
Riverside County, California

Mr. Goodwin supervised and led the archaeological monitoring program, coordinated with Native American Tribes and the County Inspector, and prepared the monitoring report.

County of Riverside, Gateway Center Specific Plan
Riverside County, California

Mr. Goodwin led the Phase I field survey, updated prehistoric resource documentation, conducted Phase II testing, evaluated resources, conducted Native American consultation on behalf of the County, and prepared the report.

County of Riverside, Santa Ana River Trail Project
Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, and Native American consultation on behalf of the County of Riverside. He documented and evaluated historic period resources and prepared the report.

County of Riverside, South Coast Winery Resort and Spa
Riverside County, California

Mr. Goodwin supervised monitoring, acted as lead monitor, and prepared the report. No cultural resources were identified.

Riverside County Transportation Commission, Mid County Parkway
Riverside County, California

Mr. Goodwin participated in the Phase I survey and Phase II testing of prehistoric sites, and assisted with report for the Riverside County Transportation Commission.

Caltrans, State Street Extension Project
San Bernardino, San Bernardino County, California

Mr. Goodwin conducted the Phase I survey, research, and Native American consultation on behalf of Caltrans, and prepared a Historic Property Survey Report (HPSR) and Archaeological Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA. The project received State Historic Preservation Office (SHPO) concurrence on the HPSR/ASR.

City of San Diego, BAE Systems Pier 4
San Diego, San Diego County, California

Mr. Goodwin conducted research, assisted with the architectural survey, and contributed to the report.

City of San Diego, Otay II Pipeline Project
San Diego, San Diego County, California

Mr. Goodwin conducted the archaeological monitoring program, recovered, documented, and evaluated historic period refuse, coordinated with City Inspector, and prepared monitoring the report.

City of San Jacinto, Ramona Expressway Widening Project
San Jacinto, Riverside County, California

Mr. Goodwin conducted the Phase I survey and research, documented historic period resources, and prepared the report.

City of Victorville, Space Center Project
Victorville, San Bernardino County, California

Mr. Goodwin conducted the records search, coordinated the Phase I field survey, and prepared the report.

RECREATIONAL

CALTRANS, MID-VALLEY BIKE PATH

Palm Desert, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, Native American consultation on behalf of Caltrans, documented historic period resources, and prepared a Historic Property Survey Report (HPSR) and

Archaeological Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA.

City of Hemet, Hemet Valley Bikeway
Hemet, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, Native American consultation on behalf of Caltrans, documented historic period resources, and prepared a Historic Property Survey Report (HPSR) and Archaeological Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA.

City of Fontana, Bird Farm Dog Park Project
Fontana, San Bernardino County, California

Mr. Goodwin conducted the Phase I survey, research, Native American notification on behalf of the City, and prepared the report.

City of Moreno Valley, Rancho Verde Park Project
Moreno Valley, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, Native American notification on behalf of the City, and prepared the report.

County of Riverside, Santa Ana River Trail Project
Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, and Native American consultation on behalf of the County of Riverside. He documented and evaluated historic period resources and prepared the report.

County of Riverside, South Coast Winery Resort and Spa
Riverside County, California

Mr. Goodwin supervised monitoring, acted as lead monitor, and prepared the report. No cultural resources were identified.

City of Perris, Mercado Park Project
Perris, Riverside County, California

Mr. Goodwin conducted monitoring and prepared the report. No cultural resources were identified.

RESIDENTIAL DEVELOPMENT

CITY OF PERRIS, STRATFORD RANCH RESIDENTIAL

Perris, Riverside County, California

Mr. Goodwin conducted the Phase I field survey, site record update, Phase II testing, and laboratory analysis, and prepared the report. He arranged for curation of artifact collection.

County of Riverside, SunCal, McSweeny Farms Residential Development
Riverside County, California

Mr. Goodwin participated in Phase II testing of prehistoric sites and coordinated disposition of the artifact collection with designated Most Likely Descendant, Soboba Band of Luiseño Indians.

Pulte Homes, Tract 18917
Riverside County, California

Mr. Goodwin conducted the records search and Phase I field survey, and prepared the report.

TRANSPORTATION

CALTRANS, POTRERO ROAD/STATE ROUTE 60 PROJECT

Beaumont, Riverside County, California

Mr. Goodwin conducted the Phase I survey, Native American consultation on behalf of Caltrans, and prepared the Historic Property Survey Report (HPSR) and Archaeological Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA for District 8. The HPSR and ASR were approved by Caltrans.

Caltrans and City of Colton, Colton Crossing Grade Separation
Colton, San Bernardino County, California

Mr. Goodwin conducted the Phase I survey and Extended Phase I (XPI) archaeological testing of a segment of BNSF Railroad, designed and supervised the ground-penetrating radar (GPR) program, documented and evaluated historic-period resources, coordinated research, supervised laboratory analysis, conducted Native American consultation on behalf of Caltrans, prepared Caltrans-format Historic Property Survey Report (HPSR), Archaeological Resources Report (ASR), and XPI Report, and contributed to the Historic Resources Evaluation Report (HRER) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA. He also arranged for disposition of the artifact collection.

Caltrans, I-15/I-215 Interchange
Devore, San Bernardino County, California

Mr. Goodwin conducted the Phase I survey, assisted with XPI survey/mapping, documented and evaluated historic-period resources, conducted research with the San Bernardino County Archaeologist, conducted additional research on equestrian trails, coordinated and collated multiple records searches, supervised and participated in an archaeological monitoring program, conducted Native American consultation on behalf of Caltrans, prepared Caltrans-format Historic Property Survey Report (HPSR), Archaeological Resources Report (ASR), and monitoring report, and contributed to the Historic Resources Evaluation Report (HRER) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA. The project received State Historic Preservation Office (SHPO) concurrence on the HPSR/HRER/ASR.

Caltrans, Avenue 44 Bridge over the Coachella Valley Storm Water Channel
Indio, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, and Native American consultation on behalf of Caltrans, and prepared a Historic Property Survey Report (HPSR) and Archaeological Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA.

City of Indio, Avenue 50 Improvements Project
Indio, Riverside County, California

Mr. Goodwin conducted the records search and Phase I field survey, and co-authored the report.

Caltrans, State Route 710 Extension
Los Angeles County, California

Mr. Goodwin participated in the historic architectural survey of several alternative routes for the transportation corridor from East Los Angeles to Pasadena. He assisted with preparation of the Historic Resources Evaluation Report (HRER).

Caltrans, Gene Autry Trail
Palm Springs, Riverside County, California

Mr. Goodwin conducted the Phase I survey, research, and Native American consultation on behalf of Caltrans, and prepared a Historic Property Survey Report (HPSR) and Archaeological Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA. The project received State Historic Preservation Office (SHPO) concurrence on the HPSR/ASR.

Caltrans, Mission Boulevard Bridge Replacement
Riverside, Riverside County, California

Mr. Goodwin supervised the Phase I survey, assisted with mapping, conducted research, coordinated and collated records searches, supervised archaeological survey, conducted Native American consultation on behalf of Caltrans, prepared a Historic Property Survey Report (HPSR), Archaeological Resources Report (ASR), and monitoring report, and assisted with the Historic Resources Evaluation Report (HRER) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA. The project received State Historic Preservation Office (SHPO) concurrence on the HPSR/HRER/ASR.

Caltrans, Community Environmental Transportation Acceptability Process (CETAP) Project
Riverside County, California

Mr. Goodwin conducted an expansive historic architectural survey, compiled a built environment inventory, participated in Phase II testing, and edited the Historic Property Survey Report (HPSR).

Caltrans and County of Riverside, Cajalco Road and Alexander Road Project
Riverside County, California

Mr. Goodwin supervised and led the archaeological monitoring program, conducted research, coordinated with Native American Tribes, Caltrans, and the County Inspector, and prepared the monitoring report.

County of Riverside, Briggs Road Improvements at Warm Springs
Riverside County, California

Mr. Goodwin supervised and led the archaeological monitoring program, coordinated with Native American Tribes and the County Inspector, and prepared the monitoring report.

Riverside County Transportation Commission, Mid County Parkway
Riverside County, California

Mr. Goodwin participated in the Phase I survey and Phase II testing of prehistoric sites, and assisted with report for the Riverside County Transportation Commission.

Caltrans, State Route 210 Project
San Bernardino, San Bernardino County, California

Mr. Goodwin conducted the archaeological monitoring program, recovered prehistoric human remains, coordinated with the County Coroner and Native American Tribes, and prepared a monitoring report in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA for District 8. The report was approved by Caltrans.

Caltrans, State Street Extension Project
San Bernardino, San Bernardino County, California

Mr. Goodwin conducted the Phase I survey, research, and Native American consultation on behalf of Caltrans, and prepared a Historic Property Survey Report (HPSR) and Archaeological Resources Report (ASR) in accordance with Caltrans Standard Environmental Reference (SER) guidelines, Section 106, and CEQA. The project received State Historic Preservation Office (SHPO) concurrence on the HPSR/ASR.

City of San Jacinto, Ramona Expressway Widening Project
San Jacinto, Riverside County, California

Mr. Goodwin conducted the Phase I survey and research, documented historic period resources, and prepared the report.

UTILITIES

SOUTHERN CALIFORNIA EDISON, SUPERSTITION SOLAR PROJECT

El Centro, California

Mr. Goodwin participated in the Phase I survey, documented cultural resources, and contributed to the report.

Southern California Edison, On-Call Biological, Cultural, and Water Quality Support
Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, Santa Barbara, Tulare, and Ventura Counties, California

Mr. Goodwin conducted multiple surveys, documented historic-period resources and prepared letter reports and memos.

Southern California Edison, West Of Devers Project
Riverside County, California

Mr. Goodwin conducted the Phase I survey and research, documented historic period resources, and contributed to the report.

City of San Diego, Otay II Pipeline Project
San Diego, San Diego County, California

Mr. Goodwin conducted the archaeological monitoring program, recovered, documented, and evaluated historic period refuse, coordinated with City Inspector, and prepared monitoring the report.

Southern California Edison, El Casco Substation Project
San Timoteo Canyon, Riverside County, California

Mr. Goodwin conducted the cultural resources monitoring program, documented historic period resources, managed the laboratory and provided logistical support to the paleontological monitoring/fossil specimen recovery program.

SELECTED REPORTS

Archaeological Monitoring Program, Briggs Road Improvements at Warm Springs Creek, Riverside County Transportation Department, Riverside County, California 2016.

Archaeological Monitoring Program, Perris Circle Industrial Park Project, Riverside County, California 2015.

Cultural Resources Assessment and Archaeological Testing, Gateway Center Specific Plan, Riverside County, California 2015.

Cultural Resources Assessment, Brent Engineering Riverside Project, Riverside County, California 2017.

Cultural Resources Assessment, CVS Pharmacy, City of Murrieta, Riverside County, California 2016.

Cultural Resources Assessment, Rancho Diamonte Project, City of Hemet, Riverside County, California 2016.

Historic Property Survey Report, Colton Crossing Grade Separation Project, City of Colton, San Bernardino County, California 2011.

Phase II Archaeological Testing, Perris Union High School No. 4, Riverside County, California, 2016.

PRESENTATIONS

“Evidence for Luiseño and Diegueño Cultural Continuity in the Late California; Mission Period: Ceremonial Art.” Presented at the 1992 California Mission Studies Association annual conference.

“Allensworth: Prelude to the Dream.” Presented at the Society for Historical Archaeology Annual Meeting in 2007.

“The Archaeology of Patton’s Desert Training Center in the Chuckwalla Valley at Desert Center, California.” Poster presented at the Society for California Archaeology 2010 Annual Meeting.

“The Perris Crescent.” Presented at the Society for California Archaeology 2016 Annual Meeting.

REFERENCE

Gary Jones
District 8 Native American Coordinator
Caltrans
(909) 383-7505

CASSIDY SHARP, RPA

ARCHAEOLOGIST

EXPERTISE

- Historical Archaeology
- Historical Research
- Phase I Surveys
- Phase II Test Excavation
- Paleontological Resource Monitoring
- Cultural Resource Monitoring
- Fossil Collection, Salvage, Identification, and Curation
- Cultural Resource Collection, Salvage, Identification, and Curation

EDUCATION

Claremont Graduate University, Fullerton, PhD., History, In Progress.

Claremont Graduate University, Fullerton, MA, History and Archival Studies, In Progress.

University of California Los Angeles Extension, Environmental Studies Certificate, 2019.

Durham University, UK, MSc, Archaeological Science, 2017.

Azusa Pacific University, BA., History, Minor Art 2010.

PROFESSIONAL EXPERIENCE

Archaeologist, LSA, Irvine, California, July 2024–Present.

Lab Manager and Archaeology/Paleontology Supervisor II, Cogstone Resource Management, Orange, California, November 2017–June 2024.

Archaeology/Paleontology Technician, Paleosolutions Inc, Monrovia, California, December 2016– November 2017.

Collection Assistant, La Brea Tar Pits and Museum, January 2017–June 2017.

VOLUNTEER/INTERN EXPERIENCE

Foothill College, Ecuador Program, Archaeology, 2023.

Arizona Western College, El Golfo Badlands, Paleontology, 2019.

La Brea Tar Pits and Museum, Collection Management, Paleontology, 2016-2017.

Natural History Museum, Los Angeles, Haaga Expedition, Paleontology, 2017.

Natural History Museum, Los Angeles, Augustyn Expedition, Paleontology, 2017.

Durham University, United Kingdom, Binchester Project, Archaeology, 2015-2016.

Sheffield University, Zooarchaeology Shortcourse, 2016.

Durham University, Badgendon Project, Archaeology, 2015.

Fowler Museum at UCLA, Archaeological and Ethnographic Objects Conservation, 2014-2015.

Natural History Museum, Los Angeles, Vertebrate Paleontology and Dinosaur Institute, 2013-2015.

PROFESSIONAL AFFILIATIONS

Register of Professional Archaeologists (RPA)

AWARDS/HONORS

Departmental Scholarships, Claremont Graduate University, 2019–Present

Blaisdell Fellowship, Claremont Graduate University, 2019–Present

PROFESSIONAL RESPONSIBILITIES

Ms. Sharp is an archaeologist at LSA. She is a Registered Professional Archaeologist (RPA) and cross-trained paleontologist with more than 10 years of experience in cultural and paleontological resources monitoring, survey, excavation, preparation of fossils and artifacts for curation, and screening and sorting sediments for artifacts and fossils. Ms. Sharp has managed archaeology and paleontology labs in addition to serving as a supervisor for projects and personnel. She has worked on a variety of projects in the water, transportation, energy, development, public, and private sectors. For these projects, Ms. Sharp has served as a primary point of contact for the client, created and managed schedules, conducted crew sensitivity trainings, and authored relevant reports. Her field and laboratory experience include a range of projects throughout California, Utah, New Mexico, Mexico, Ecuador, and England.

PROJECT EXPERIENCE

Purple Line Extension (Westside Subway) Sections 1 and 2 Construction Management, Los Angeles County Metropolitan Transportation Authority, Los Angeles County, California.

Ms. Sharp supervised paleontological monitoring, fossil recovery, and fossil preparation in the lab. She contributed to monthly reporting during construction of seven stations from the existing Purple Line at Wilshire/Western Avenue along Wilshire Boulevard to the Veterans Administration Hospital in Westwood for 8.6 miles and managed paleontological services for Sections 1 and 2 of the subway project including budgets, Workers Environmental Awareness Program (WEAP) training, monitoring, fossil recovery, fossil preparation, identification, cataloguing, curation with the Natural History Museum of Los Angeles County, and reporting.

The Cooper Laboratory
Santa Ana, Orange County, California

Ms. Sharp provided archaeological and paleontological supervision including preparation and curation services for Orange County's John D. Cooper Archaeological and Paleontological Center. Archaeological and paleontological tasks included preparation and stabilization of vertebrate fossils from field jackets; screen washing matrix from jackets; molding and casting selected fossils for the creation of exhibits; building metal armatures to safely hold select fossils for exhibits; repairing and stabilizing previously prepared specimens that have degraded over time; processing bulk soil samples for the recovery of plants, charcoal, shells, and other finds; processing unsorted midden; and faunal identification. Fossil Preparation and archaeological collections supervision 2021-2024.

Los Angeles World Airports Ongoing Technical Support for Environmental, Mitigation Reporting, and Sustainability Issues Associated with Los Angeles World Airports Construction Projects
Los Angeles International Airport, Los Angeles County, California

Ms. Sharp served as paleontology supervisor and helped prepare and present a paleontological Workers Environmental Awareness Program training and conducted and supervised paleontological resources monitoring during construction activities for six task orders. Upon completion of monitoring for each project, Paleontological Resources Monitoring Compliance Reports were prepared. The City of Los Angeles functioned as lead agency for the project.

Los Angeles World Airports Los Angeles International Airport North Airfield Taxiway
Los Angeles, Los Angeles County, California

Ms. Sharp provided cultural and paleontological resources monitoring during construction. Ground-disturbing activities consisted of the construction of four new high-speed exit taxiways, the reconstruction of approximately 5,400 linear feet of the keel section along an existing runway, and the reconstruction of existing taxiway pavement. Several 18- to 48-inch-in-diameter reinforced concrete pipe storm drains in the infield areas surrounding the proposed taxiways were also constructed, including drain improvements and construct

aircraft related inlet structures and manholes to facilitate the proposed storm drains. Drainage swales in the infield areas surrounding the proposed taxiways were also completed. The project was completed in compliance with Los Angeles World Airports' (LAWA) Archaeological Treatment Plan and Paleontological Management Treatment Plan as well as all Mitigation Measures for Los Angeles International Airport. LAWA is the lead agency under the CEQA.

Southern California Edison Environmental Clearance On-Call Program
Statewide, California
Ms. Sharp provided on-call cultural resource monitoring services for various Southern California Edison projects throughout California for more than 100 task orders.

Pacific Gas and Electric Environmental Clearance On-Call Program
Statewide, California
Ms. Sharp provided on-call cultural resource monitoring services for various Pacific Gas & Electric Co. projects throughout California.

Los Angeles County Museum of Art Building for the Permanent Collection Project
Los Angeles, Los Angeles County, California
Ms. Sharp conducted paleontological resources monitoring, supervision, and fossil recovery during construction of a 347,500-gross-square-foot museum building, which will replace four buildings (Ahmanson Building, Hammer Building, the Art of Americas Building, and the Bing Center) within Los Angels County Museum of Art East. The new building and the outdoor experience provide enhanced outdoor landscaped plazas, public programming and educational spaces, sculpture gardens, and native and drought-tolerant plants, integrated with the museum building and within Hancock Park.

Palo Verde
La Quinta, Riverside County, California
Ms. Sharp provided archaeological and paleontological resources monitoring during excavations for the construction of single-family residences.

Preserve School
City of Chino, San Bernadino County, California
Ms. Sharp provided archaeological monitoring for the Chino Valley Unified School District's development of a 12-acre lot for the operation of a K-8 school campus with a total footprint of approximately 82,000 square feet to house up to 1,200 students on a four-track, year-round schedule.

Bureau of Land Management El Centro Recreation Project
Imperial, Imperial County, California
The Bureau of Land Management's (BLM) El Centro Field Office requested Class III Cultural Resources Inventory Surveys and archaeological site assessments to prevent potential adverse effects to cultural resources within BLM managed lands identified for temporary or permanent disturbance due to implementation of recreation program projects on 47 acres in the Superstition and Plaster City Open Areas. Ms. Sharp completed this work to satisfy BLM's responsibilities for compliance under Section 106 of the NHPA. Ms. Sharp provided an intensive pedestrian survey. Although the record search did not identify any previously recorded cultural resources in the proposed APE, 41 previously recorded cultural resources were identified within a 1-mile radius, some of which may have subsurface potential. Cultural resources monitoring was recommended due to the sensitivity for buried cultural resources. The BLM is the lead federal agency under NEPA.

West Lincoln Ave. Mixed Use
Anaheim, Orange County, California

Ms. Sharp provided archaeological and paleontological monitoring for the construction of a new four-story mixed-use development project consisting of 315 residential apartment units with 653 parking spaces and 3,413 square feet of retail space on 5.25 acres within Assessor Parcel Numbers 250-091-09, -10, and -11 at 1600 West Lincoln Avenue in Anaheim, Orange County.

Mirador Project
Altadena, Los Angeles County, California

This project included the construction of residential apartments featuring 71 affordable and supportive housing units geared towards low-income senior citizens. Ms. Sharp provided archaeological and paleontological monitoring for this project.

Cold Canyon Landfill Expansion Module 11B
Arroyo Grande, San Luis Obispo County, California

Ms. Sharp conducted archaeological and paleontological resources monitoring for the expansion of an existing landfill. In addition, Worker Environmental Awareness Program training was provided for all construction personnel. Upon completion of monitoring, preparation of a Paleontological Resources Monitoring Compliance Report was completed at the conclusion of ground disturbance.

Duarte Station Specific Plan
Duarte, Los Angeles County, California

Ms. Sharp provided archaeological monitoring for the development of a new mixed-use space including a two-building residential development with 619 dwelling units, parking structures, and 157,195 feet of open space in addition to a ground floor commercial use and up to 80 units of rent-restricted affordable housing.

North Outfall Sewer Rehabilitation Project
Los Angeles, Los Angeles County, California

Ms. Sharp provided archaeological monitoring for the rehabilitation of the North Outfall Sewer in Los Angeles. The North Outfall Sewer was constructed in the 1920s and needed rehabilitation due to its poor condition. To rehabilitate the sewer, eight access pits were excavated to slip-line a new pipe in the existing sewer. The excavation depths varied from 25 feet to 42 feet.

Rancho Los Cerritos Stormwater Retention Project
City of Long Beach, Los Angeles County, California

Ms. Sharp provided cultural resources monitoring during ground-disturbing construction activities for the Rancho Los Cerritos Stormwater Retention Project. The project consists of constructing a stormwater retention system to allow the site to capture and reuse 95 percent of rainwater. Construction consists of permeable pavers, pervious concrete, an underground cistern, bioswales, detention pond, and an eco-parking lot. Rancho Los Cerritos is the lead agency under the CEQA and Section 106 of the NHPA. Rancho Los Cerritos was listed in the National Register of Historic Places (NRHP Number 978) on April 15, 1970, and this project must conform to (1) the United States Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Buildings, and (2) the Standards of Rehabilitation measures adopted by the Rancho Los Cerritos Master Plan (City of Long Beach 2002), and the other mitigation measures for the project. The project's Area of Potential Effects (APE) measures 4.77 acres and was established as the area where the project could directly or indirectly affect historic properties.

William R. Mason Regional Park Entry Driveway and Road Improvements Project
Irvine, Orange County, California

Ms. Sharp provided archaeological monitoring for OC Parks, in collaboration with OC Public Works, at William Mason Park. This project enhances the park visitor experience by improving the entryway, providing an accessible path of travel into the park and fixing drainage issues. Work consisted of removing existing deteriorated asphalt pavement and replacing it with a combination of regular and permeable asphalt to alleviate drainage issues while improving the quality of stormwater runoff; removing and replacing the damaged curb and gutter and adding of Americans with Disabilities Act-compliant curb ramps, removing and replacing landscape and irrigation within the roundabout and medians to include drought-tolerant and low-water-consumption plants, adding lighting to the roundabout, adding a raised crosswalk and wayfinding signs, and striping pavement to enhance the bike trail crossing and assist vehicular traffic more efficiently and safely navigate the entrance.

Morro Bay Water Facility Project Phases I and II
Morro Bay, San Luis Obispo County, California

Ms. Sharp provided archaeological and paleontological resources monitoring during ground-disturbing activities during the City of Morro Bay's Water Reclamation Facility Lift Stations and Offsite Pipelines Construction Project. Excavation in a portion of the project required a permit from the United States Fish and Wildlife Service. The project was being completed in compliance with mitigation measures contained within the EIR for the project. A Cultural and Paleontological Resources Monitoring Compliance Report was completed upon the conclusion of ground disturbance for the project. The City of Morro Bay is the lead agency under the CEQA.

Rose Hill Courts Redevelopment Project
Los Angeles, Los Angeles County, California

Ms. Sharp provided archaeological supervision for the project. Archaeological and paleontological resources monitoring was conducted during the proposed demolition of 15 buildings with 100 existing public housing units and the construction of 185 new multifamily units contained within 9 buildings, a 6,366 square-foot office/community building, and 174 parking spaces. Ms. Sharp prepared a Paleontological Resource Monitoring Compliance Report following the completion of ground disturbance for the project. Archaeology Supervisor.

Hilltop and Euclid Mixed-Use Project
San Diego, San Diego County, California

Ms. Sharp provided paleontological resources monitoring during excavations for the proposed construction of 20 single-family residences, 27 two-story townhome residences, 113 affordable apartment units, a parking garage, and approximately 8,300 square feet of commercial space. A Paleontological Resources Monitoring Compliance Report was completed at the conclusion of ground disturbance for the project.

Fort Bidwell Northern Paiute Indian Reservation
Fort Bidwell Reservation, Modoc County, California

Ms. Sharp conducted archaeological monitoring of a waterline construction project to ensure compliance of all cultural laws and regulations and coordinated with a tribal liaison/monitor to protect cultural values and collect artifacts for curation in the tribal museum at Fort Bidwell.

Ganahl Lumber Project
City of San Juan Capistrano, Orange County, CA

Ms. Sharp provided archaeological and paleontological resources monitoring during the geotechnical boring of 20 auger holes for the Ganahl Lumber Project in San Juan Capistrano, Orange County, California. A total of 20 geotechnical boring holes were drilled using an auger to depths that varied from 5 to 60 feet deep. This project was conducted in compliance with the City of San Juan Capistrano Council Policy 601.

Deep Soil Mixing Pilot Project
Pacific Palisades, Los Angeles County, California
Ms. Sharp provided archaeological and paleontological monitoring as part of an on-call contract with the Los Angeles Bureau of Engineering, resources monitoring, and managed Native American monitoring during ground-disturbing activities. The City of Los Angeles was the lead agency under the CEQA. Monitoring for the project was conducted in compliance with the Contingency Plan conditions form the Coastal Development Permit from the California Coastal Commission.

Spalding—A Cell
City of Beverly Hills, Los Angeles County, California
Ms. Sharp conducted a record search review and site visit for the candidate site in anticipation of changes to equipment in use at the existing facility. This study was conducted in accordance with Section 106 of the National Historic Preservation Act of 1966. The Spalding – A cell facility is at 9735 Wilshire Boulevard, Beverly Hills, California 90212 on top of the Beverly-Linden Medical Office Building.

State Route 132 West Freeway/Expressway- Phase 1, Caltrans District 10
Modesto, Stanislaus County, California
Ms. Sharp provided paleontology monitoring for the construction of approximately 4 miles of a four-lane freeway/expressway connecting SR-132 with Modesto on a new alignment south of Kansas Avenue from Dakota Avenue to east of Needham Street.

Windsor Pointe Project
Carlsbad, San Diego County, California
Ms. Sharp conducted cultural resources monitoring for the Windsor Pointe Project. The project involves the construction of 50 affordable multifamily housing units on two sites, which are aimed at providing housing for homeless and lower-income veterans and their families as well as for homeless people with severe mental illnesses. In total, the project would include two three-story buildings with a unit mix of 24 studio units, 17 one-bedroom units, seven two-bedroom units, and two three-bedroom units. To support the project, Ms. Sharp provided archaeological monitoring, meeting the qualifications required by the Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation.

Indian Health Clinic Project
Torres Martinez Desert Cahuilla Indian Reservation, Riverside and San Bernadino Counties, California
Ms. Sharp conducted cultural resources monitoring during ground-disturbing activities for the construction of a new Indian Health Clinic within the Torres Martinez Desert Cahuilla Reservation. Cultural resources monitoring followed the Final Cultural Resources Monitoring Plan and Native American Graves Protection and Repatriation Act Plan of Action for the project in compliance with Section 106 of the NHPA.

Jack Ranch Tract
San Luis Obispo County, California
Ms. Sharp provided archaeological and paleontological monitoring during construction for residential development of a 299-acre parcel just south of San Luis Obispo. The County of San Luis Obispo is the lead agency for this project under CEQA.

Ladera Park Regional Stormwater Improvements Project
Los Angeles, Los Angeles County, California
Ms. Sharp conducted cultural and paleontological resources monitoring during improvements to Ladera Park that will allow the capture and storage of stormwater runoff. Monitoring complied with program mitigation

measures and as defined by the County of Los Angeles, Department of Public Works (LACDPW), Project Management Division II. LACDPW was the project proponent and functioned as the lead agency under CEQA.

LAX United Airlines East Aircraft Maintenance and Ground Support Equipment Project
City of Los Angeles, Los Angeles County, California

Ms. Sharp provided archaeological and paleontological monitoring for the project, which consolidates and modernizes existing United Airlines aircraft maintenance and Ground Support equipment (GSE) facilities at LAX, allowing for more efficient and effective maintenance of existing aircraft and GSE. The project redeveloped a 37-acre site in the eastern portion of the airport with a new 411,000 sf. facility. The consolidation alters on and off-airport vehicular movements and movements on the airfield.

Los Angeles World Airports Terminal 4 and Terminal 5 Modernization Project
Los Angeles, Los Angeles County, California

Ms. Sharp provided archaeological and paleontological monitoring for a part of the project, which modernizes existing Terminal 4 and Terminal 5 including American Airlines, JetBlue and Spirit Airlines through a $1.6 billion modernization slated to end in 2027 that will create a centralized location for ticketing, screening and baggage claim with enhanced amenities for guests and will provide direct connection to the Automated People Mover train system**.** Archaeology and Paleontology Monitoring 2020.

San Juan Capistrano Memory Care Development Project
San Juan Capistrano, Orange County, California

Ms. Sharp conducted cultural and paleontological resources monitoring and coordinated Native American monitoring during construction of an adult memory care facility with associated parking and exterior lighting.

Florence Mills Apartments Project
Los Angeles, Los Angeles County, California

Ms. Sharp provided prehistoric and historic archaeological monitoring for the development of affordable and subsidized multifamily apartment buildings along the Historic Central Avenue Corridor in Southeast Los Angeles.

Gates Canyon Park
Calabasas, Los Angeles County, California

Ms. Sharp conducted cultural and paleontological resources monitoring during improvements to Gates Canyon Park to allow the capture and storage of stormwater runoff from an adjacent 105-acre residential area. Monitoring complied with program mitigation measures and as defined by the County of Los Angeles,

Department of Public Works (LACDPW), Project Management Division II. LACDPW was the project proponent and functioned as the lead agency under CEQA.

Los Angeles World Airports Police Facility Project
Los Angeles, Los Angeles County, California

Ms. Sharp conducted cultural and paleontological resources monitoring during construction of two L-shaped structures including a 64,000 sf, two-story police headquarters and a 108,000 sf, four-story parking garage. A 60,000 sf quad area will be located between the two structures. Both structures included partially subterranean levels. Monitoring was conducted during the grading phase of the project, prior to construction of the headquarters and parking garage structures. All work was completed in compliance with LAX Northside Plan Update Project Design Features, Commitments, and the Mitigation Monitoring and Reporting Program.

Dodd's Circle Survey
East Los Angeles, Los Angeles County, California

Ms. Sharp provided an archaeological survey for Sprint's proposed cell tower installation. The project proposed to install one new wooden pole and to install six new antennas, nine new Remote Radio Heads, and one new Microwave dish onto the proposed pole.

Corona Affordable Housing Project
City of Corona, Riverside County, California

Ms. Sharp conducted cultural and paleontological resources monitoring during grading for the development of affordable multifamily apartment buildings.

Archaeological and Paleontological Resources Training for the Los Angeles World Airports Utilities and LAMP Enabling Projects
City of Los Angeles, Los Angeles County, California

Ms. Sharp provided in-person archaeological and paleontological resources WEAP training to all construction personnel for the R23 A Street Project as part of the LAWA Utilities and Land Access Modernization Program Enabling Projects.

SR-46 Union Road Realignment, Caltrans District 5
Paso Robles, San Luis Obispo County, California

Ms. Sharp conducted an intensive pedestrian survey of accessible areas containing late Pleistocene alluvium and the Paso Robles Formation.

Hope Steet Bridge Housing Project
Los Angeles, Los Angeles County, California

Ms. Sharp conducted an intensive pedestrian survey for this project. The purpose of the study was to determine the potential effects to paleontological resources for the proposed temporary emergency homeless shelter. This project was a task order from an on-call contract with the Los Angeles Bureau of Engineering.

Woolsey Fire Emergency Monitoring
Malibu, Los Angeles County, California

As cultural resources monitor, Ms. Sharp conducted an emergency environmental survey and assessments of fire damaged pole locations for archaeological and historical resources prior replacement and also monitored ground-disturbance activities during the pole replacement.

Roosevelt Park Regional Stormwater Capture Project
Los Angeles, Los Angeles Couty, California

Ms. Sharp provided paleontological and archaeological monitoring for a project involving the construction of three diversion structures and pipelines, during all ground-disturbing activities in native sediments.

SELECTED PUBLICATIONS

Hrafnhildur Helga Halldórsdóttir, Bryony Rogers, Frank Direnno, Gundula Müldner, Darren R. Gröcke, Ellen Barnicle, Blessing Chidimuro, Malcolm Evans, Ruth Morley, Monica Neff, Cassidy Sharp, Ashleigh Simpson, Andy Boucher, Janet Montgomery.

2019 Continuity and individuality in Medieval Hereford, England: A stable isotope approach to bulk bone and incremental dentine. *Journal of Archaeological Science: Reports*, 23(800-809). https://doi.org/10.1016/j.jasrep.2018.12.006.

Sharp, Cassidy

2016 The Palaeopathology of Zed (*M. columbi*): Analysing Health to Discern Hunting in Pleistocene Mammoths. M.Sc. Dissertation. Durham University. 85 pp.

APPENDIX B

RECORD SEARCH BIBLIOGRAPHY

Report List

LSA2411

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-00108	NADB-R - 1060108; Voided - 71-9.1	1971	King, Thomas F.	M-YUC: An Archaeological Survey of the Proposed Rihgt-Of-Way Of the Morongo-Yucca-Upper Coachella Valley Pipeline	Univeristy of California at Riverside, Department of Anthropology	36-000349, 36-000555, 36-000556, 36-000557, 36-000558, 36-000559, 36-000560, 36-000561
SB-00152	NADB-R - 1060152; Voided - 73-4.3	1973	DECKER, DEAN A.	THE ARCHAEOLOGICAL IMPACT OF A RESIDENTIAL DEVELOPMENT NORTH OF YUCCA VALLEY, CALIFORNIA		36-002379, 36-002380
SB-00899	NADB-R - 1060899; Voided - 80-1.3	1980	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	CULTURAL RESOURCES ASSESSMENT OF PROPERTY LOCATED IN SEC. 13, T1N R5E, YUCCA VALLEY	SAN BERNARDINO COUNTY MUSEUM ASSOCIATION	
SB-01273	NADB-R - 1061273; Voided - 82-5.5	1982	SUTTON, MARK	CULTURAL ASSESSMENT FOR HIGH DESERT WATER DISTRICT WATER TANK, YUCCA VALLEY		
SB-02158	NADB-R - 1062158; Voided - 74-6.1	1974	MORTLAND, CAROL A.	ARCHAEOLOGICAL IMPACT EVALUATION: SOUTHERN CALIFORNIA EDISON PROPOSED GENERATING STATION IN UPPER JOHNSON VALLEY AND ASSOCIATED TRANSMISSION, GAS AND FUEL ROUTES	ARCHAEOLOGICAL RESEARCH UNIT, UCR	36-000181, 36-001922, 36-002208, 36-002592, 36-003433, 36-003434, 36-003435, 36-003697, 36-003698, 36-003780, 36-003781, 36-003782, 36-003783, 36-003784, 36-003785, 36-003843, 36-003844, 36-003845, 36-003849, 36-003850, 36-003851, 36-006190
SB-02518	NADB-R - 1062518; Voided - 91-0.9	1991	SUTTON, MARK Q.	A FORWARD TO THE BAKER SITE REPORT		36-000541
SB-03908	NADB-R - 1063908	2002	BONNER, WAYNE	PHASE I ARCHAEOLOGICAL FIELD SURVEY FOR CINGULAR WIRELESS SITE CM 457-02 LOCATED AT 4451 OLD WOMAN SPRINGS ROAD, YUCCA VALLEY, SAN BERNARDINO COUNTY, CA. 11PP	BONNER ASSOCIATES	
SB-04654	NADB-R - 1064654	2005	TEJADA, BARBARA	ARCHAEOLOGICAL SURVEY REPORT FOR THE STATE ROUT 247 AT BUENA VISTA DRIVE, YUCCA VALLEY, SAN BERNARDINO COUNTY, CALIFORNIA		
SB-06284	NADB-R - 1066284	2009	ENCARNACION, DEIRDRE, BALLESTER, DANIEL, and LAURA H. SHAKER	HISTORICAL/ARCHAEOLOGICAL RESOURCES SURVEY REPORT: YUCCA VALLEY WATER SYSTEM INFRASTRUCTURE IMPROVEMENTS, TOWN OF YUCCA VALLEY, SAN BERNARDINO COUNTY, CALIFORNIA		
SB-06927	NADB-R - 1066927	2011	Encarnacion, Deirdre, Daniel Ballester, and Laura H. Shaker	Identification and Evaluation of Historic Properties: Yucca Valley Wastewater System Infrastructure Improvements, Town of Yucca Valley, San Bernardino County, California.	CRM Tech	36-010525

Report List

LSA2411

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-07278	NADB-R - 1067278; Other - SCE	2009	Jones, Gary A.	Archaeological Survey Report for Southern California Edison's Deteriorated Pole Project on the Campanula 25 kV, Chollita 12 kV, Meloday 20 kV, Mockingburd 12 kV, and Pioneertown 12 kV Transmission Lines in San Bernardino County, California.	AECOM	
SB-07722	NADB-R - 1067722	2012	Tang, Bai “Tom”	Addendum to Historical/Archaeological Resources Survey Report: Yucca Valley Wastewater System Infrastructure Improvement Project, Town of Yucca Valley, San Bernardino County, California.		
SB-07723	NADB-R - 1067723	2013	Tang, Bai “Tom”, Daniel Ballester, and Laura Shaker	Identification and Evaluation of Historic Properties: Yucca Valley Wastewater System Infrastructure Improvements, Town of Yucca Valley, San Bernardino County, California.		
SB-07725	NADB-R - 1067725	2012	Horne, Melinda	Paleontological and Cultural Resources Assessment for the Town of Yucca Valley General Plan Update, San Bernardino County, California.		
SB-07792	NADB-R - 1067792	2014	Bonner, Wayne H., Sarah A. Williams, and Kathleen A. Crawford	Cultural Resource Record Search and Site Visit Results for T-Mobile West, LLC Candidate IE04457A (CM457 4451 Old Woman Spring) 4451 Old Woman Springs Road, Yucca Valley, San Bernardino County, California.	EAS	
SB-07793	NADB-R - 1067793	2014	Crawford, Kathleen A.	Direct APE Historic Architectural Assessment for T-Mobile West, LLC Candidate IE04454A (CM457 Old Woman Spring), 4451 Old Woman Springs Road, Yucca Valley, San Bernardino County, California.	EAS	

APPENDIX E

GEOTECHNICAL REPORT

Sladden Engineering

GEOTECHNICAL INVESTIGATION
PROPOSED SELF-STORAGE FACILITY
APN 0597-111-67
SEC SUN MESA DRIVE & NEWTON LANE
TOWN OF YUCCA VALLEY, CALIFORNIA

-Prepared By-

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www.sladdenengineering.com

January 2, 2025

Project No. 544-24365
25-01-003

Mr. Rob Billings
5024 Wallaby Street
Yucca Valley, California 92284

Subject: Geotechnical Investigation

Project: Proposed Self-Storage Facility
APN 0597-111-67
SEC Sun Mesa Drive & Newton Lane
Yucca Valley, California

Sladden Engineering is pleased to present the results of the geotechnical investigation performed for the storage facility proposed for the property located at the southeast corner of Sun Mesa Drive and Newton Lane in the Town of Yucca Valley, California. Our services were completed in accordance with our proposal for geotechnical engineering services dated November 15, 2024 and your authorization to proceed with the work. The purpose of our investigation was to explore the subsurface conditions at the site to provide recommendations for foundation design and the design of the various site improvements. Evaluation of environmental issues and hazardous wastes was not included within the scope of services provided.

The opinions, recommendations and design criteria presented in this report are based on our field exploration program, laboratory testing and engineering analyses. Based on the results of our investigation, it is our professional opinion that the proposed project should be feasible from a geotechnical perspective provided that the recommendations presented in this report are implemented in design and carried out through construction.

We appreciate the opportunity to provide service to you on this project. If you have any questions regarding this report, please contact the undersigned.

Respectfully submitted,
SLADDEN ENGINEERING

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GEOTECHNICAL INVESTIGATION
PROPOSED STORAGE FACILITY
APN 0597-111-67
SEC SUN MESA DRIVE & NEWTON LANE
TOWN OF YUCCA VALLEY, CALIFORNIA

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INTRODUCTION

This report presents the results of the geotechnical investigation performed by Sladden Engineering (Sladden) for the storage facility proposed for the property located at the southeast corner of Sun Mesa Drive and Newton Lane in the Town of Yucca Valley, California. The site is located at approximately 34.1669 degrees north latitude and 116.4207 degrees west longitude. The approximate location of the site is indicated on the Site Location Map (Figure 1).

Figure 1 (USGS, 2021)

Our investigation was conducted to evaluate the engineering properties of the subsurface materials, to evaluate their *in-situ* characteristics, and to provide engineering recommendations and design criteria for site preparation, foundation design and the design of various site improvements. This study also includes a review of published and unpublished geotechnical and geological literature regarding seismicity at and near the subject site.

PROJECT DESCRIPTION

Based on the provided Site Plan (DRP Enterprises, 2022), it is our understanding that the proposed project will consist of constructing a mini/self-storage facility and a 400-square-foot office on the subject property. Concrete flat work, landscape areas and various other associated site improvements. For our analyses, we expect that the proposed buildings will consist of reinforced masonry, concrete tilt-up, lightweight wood-frame or steel-frame structures supported on conventional shallow spread footings and concrete slabs-on-grade.

Based on the provided preliminary grading plans (DRP Enterprises, undated) grading will be limited to minor cuts of 4,970 cubic yards and 4,485 cubic yards of fill to accomplish the desired elevations and to provide adequate gradients for site drainage. This does not include the removal and re-compaction of the loose surface soil and primary foundation-bearing soil within the proposed foundation areas. Upon completion of precise grading plans, Sladden should be retained to verify that the recommendations presented within in this report are properly incorporated into the design of the proposed project.

Structural foundation loads were not available at the time of this report. Based on our experience with relatively lightweight structures, we expect that isolated column loads will be less than 50 kips and continuous wall loads will be less than 3.0 kips per linear foot. If these assumed loads vary significantly from the actual loads, we should be consulted to verify the applicability of the recommendations provided.

SCOPE OF SERVICES

The purpose of our investigation was to determine specific engineering characteristics of the surface and near-surface soil to develop foundation design criteria and recommendations for site preparation. Specifically, our site characterization consisted of the following tasks:

- Site reconnaissance to assess the existing surface conditions on and adjacent to the site.
- Drilling two (2) exploratory boreholes and four (4) percolation test holes to depths between approximately 5 and 21.5 feet bgs to characterize the subsurface soil conditions. Representative samples of the soil were classified in the field and retained for laboratory testing and engineering analyses.
- Performing laboratory testing on selected samples to evaluate their engineering characteristics.
- Reviewing geologic literature and discussing geologic hazards.
- Performing site-specific ground motion procedures for the subject property.
- Performing engineering analyses to develop recommendations for foundation design and site preparation.
- The preparation of this report summarizing our work at the site.

SITE CONDITIONS

The subject property is located at the Southeast corner of Sun Mesa Drive and Newton Lane in the Town of Yucca Valley, California. The property is formally identified by the County of San Bernardino as APN 0597-111-67 and occupies a total area of approximately 4.34 acres. At the time of our investigation, the site was undeveloped and covered in scattered native low-growth desert vegetation. The site is near the elevation of the adjacent properties and roadways and is bounded by Sun Mesa Drive to the north, undeveloped property to the east, commercial property to the south, and Newton Lane to the west.

Based on our review of the Yucca Valley North 7.5-Minute Quadrangle Map (USGS, 2021), the site is situated at an approximate elevation of 3,719 feet above mean sea level (MSL).

No natural ponding of water or surface seeps were observed at or near the sites during our investigation conducted on December 3, 2024 Site drainage appears to be controlled via sheet flow and surface infiltration. A blue line stream is located approximately 0.40 km northwest of the project site.

GEOLOGIC SETTING

The site is located within the Transverse Ranges Geomorphic province. The Transverse Ranges are characterized by roughly east-west trending, convergent (north-south compressional) deformational structural features. The convergent deformational features of the Transverse Ranges are a result of north-south crustal shorting due to plate tectonics, locally folding and uplifting of the mountains and lowering of the intervening valleys, along with propagation of thrust faults (including blind thrusts) and in filling of the valley basins with sediments. The Transverse Ranges are considered to be one of the most rapidly rising orogenic regions on earth (CGS, 2002). The site has been mapped by Dibblee (1967) to be immediately underlain by Quaternary-age older alluvium (Qoa) and Quaternary-age older gravel. The regional geologic setting for the site vicinity is presented on the Regional Geologic Map (Figure 2).

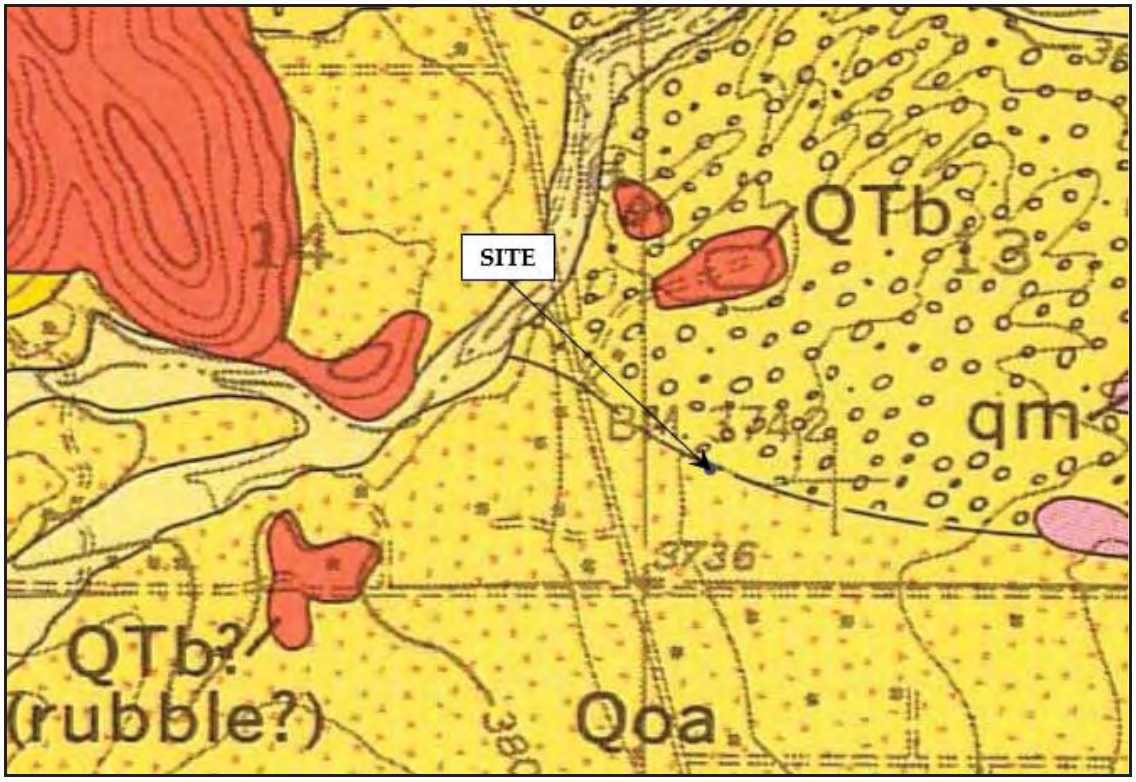

Figure 2 (Dibblee, 1997)

SUBSURFACE CONDITIONS

The subsurface conditions at the site were investigated by drilling two (2) exploratory boreholes and four (4) percolation test holes on the property depths between approximately 5 and 21.5 feet bgs. The approximate locations of the boreholes are illustrated on the Exploration Location Photograph (Figure 3). The boreholes were advanced using a truck-mounted Mobile B-61 drill-rig equipped with 8-inch outside diameter hollow stem augers. A representative of Sladden was on-site to log the materials encountered and retrieve samples for laboratory testing and engineering analysis.

During our field investigation, native alluvium was encountered to the maximum explored depth of 21.5 feet bgs. Generally, the native earth materials consist of granular soil was found to be dry, medium dense, and grayish brown in in-situ color.

The final logs represent our interpretation of the contents of the field logs, and the results of the laboratory observations and tests of the field samples. The final logs are included in Appendix A of this report. The stratification lines represent the approximate boundaries between soil types although the transitions may be gradual and variable across the site.

Figure 3

GROUNDWATER CONDITIONS

Groundwater was not encountered to the maximum deplored depth of approximately 21.5 feet bgs during our field investigation. Based on the depth to groundwater in the immediate project vicinity (CDWR, 2024), it is our opinion that groundwater should not be a factor in the design or construction of the proposed project. The following table provides a summary of the historic high groundwater depths in the project vicinity.

TABLE 1
GROUNDWATER DEPTHS

STATE WELL	LAT/LONG	DISTANCE (KM)	DATE	DEPTH (FT)
01N05E14J001S	34.1697/-116.4255	0.52	01/23/1958	167
01N05E14Q001S	34.1661/-116.43	0.86	02/12/1958	100
01N05E14P001S	34.1661/-116.4344	1.26	01/01/1958	82
01N05E24B001S	34.1625/-116.4122	0.95	02/12/1958	131.54

SEISMICITY AND FAULTING

The southwestern United States is a tectonically active and structurally complex region, dominated by northwest-trending dextral faults. The faults of the region are often part of complex fault systems, composed of numerous subparallel faults that splay or step from main fault traces. Strong seismic shaking could be produced by any of these faults during the design life of the proposed project.

We consider the most significant geologic hazard to the project to be the potential for moderate to strong seismic shaking that is likely to occur during the design life of the project. The proposed project is located in the highly seismic Southern California region within the influence of several fault systems that are considered to be active or potentially active. A Holocene-active fault is defined by the State of California as a "sufficiently active and well-defined fault" that has exhibited surface displacement within the Holocene epoch (about the last 11,000 years). A pre-Holocene fault is defined by the State as a fault with a history of movement within Pleistocene time (between 11,000 and 1.6 million years ago).

As previously stated, the site has been subjected to strong seismic shaking related to active faults that traverse through the region. Some of the more significant seismic events near the subject site within recent times include: M6.0 North Palm Springs (1986), M6.1 Joshua Tree (1992), M7.3 Landers (1992), M6.2 Big Bear (1992), M7.1 Hector Mine (1999), and M7.1 Ridgecrest (2019).

Table 2 lists the closest known potentially active faults that was generated in part using fault parameters from The Revised 2002 California Probabilistic Seismic Hazard Maps (Cao et al, 2003), 2008 National Seismic Hazard Maps – Source Parameters (USGS, 2008) and the Fault and Fold Database of the United States (USGS, 2024a). This table does not identify the probability of reactivation or the on-site effects from earthquakes occurring on any faults in the region.

TABLE 2 CLOSEST KNOWN ACTIVE FAULTS		
Fault Name	Distance (Km)	Maximum Event
Landers*	0	7.3
Pinto Mountain	4.0	7.2
Burnt Mountain	5.0	7.3
Eureka Peak	5.4	6.5
So Emerson-Copper Mnt	15.7	7.0
Johnson Valley No	16.6	6.7
North Frontal (East)	18.6	6.4
Calico-Hidlago	22.2	7.3
Lenwood-Lockhart-Old Woman Springs	28.8	7.0
Pisgah-Bullion Mtn-Mesquite Lk	30.6	7.3

* On-Site

BACKGROUND INFORMATION RELATIVE TO THE ALQUIST-PRIOLO ACT

The objective of the Alquist-Priolo Act (Act) is to regulate development near active faults so as to mitigate the hazard of surface fault rupture (Hart and Bryant, 1997). Current law prohibits the construction of habitable structures across active fault traces. Therefore, the evaluation of the potential ground rupture hazard to establish building setbacks is required by reviewing agencies. In addition, the Act mandates that structures intended for human occupancy of over 2,000 person-hours per year not be built over known active faults. A Holocene-active fault is defined by the California Geological Survey as a fault that has experienced surface displacement within the Holocene Epoch (approximately the last 11,700 years). A pre-Holocene fault is defined by the State of California whose recency of past movement is older than 11,700 years. In areas of known or suspected Holocene-active or potentially active faults, and prior to site development, the actual location of an active fault(s) needs to be ascertained, such that appropriate setbacks from the fault(s) can be determined and Restricted Use Zones (RUZs) or no building areas established. Not only is it important to identify the fault location, but it is also equally important to verify areas where no faults exist.

To evaluate on-site fault hazards, subsurface exploration by excavation of trenches is performed to expose the soil and rock profiles and to allow for the direct observation of existing shallow/near-surface faults. Trenches are oriented generally perpendicular to the regional fault trends and are logged in detail by Geologists experienced in fault rupture hazard studies. Trench depths are controlled by the age of the surficial sediments or rocks exposed within the trench. In general, it is desirable to have exposed soil profiles spanning at least the last 11,000 years, or Holocene Epoch. Soil profiles with Holocene and older profiles can then allow for the determination of the relative age of the encountered fault. If the fault disrupts Holocene sediments, then the fault is determined active and building setbacks are established accordingly. Conversely, if the fault is buried by pre-Holocene sediments or rock, then the fault can be deemed inactive or potentially active, with construction of non-critical structures allowed over or immediately adjacent to the fault. In many cases, the sediments exposed may only cover a portion of the Holocene epoch, such that judgment and risk assessments are professed relative to the age of the faults and suitability of the site for development. The success of the risk assessments is dependent upon the quality of the data collected, local agency requirements, and the experience of the Professional Geologists performing the work.

Building setback distances from the fault, generally mandated by the Act to be approximately 50 feet, are dependent upon the confidence or degree of accuracy of the fault location across the site: the higher the degree of confidence, the lesser the setback requirements. The size of the property, number of faults, number of exploration trenches defining the fault location(s), survey quality, and local regulatory agency requirements, affect the setback distance requirements.

The Act also allows for jurisdictions to establish policies and criteria that are more restrictive than the Act.

SITE-SPECIFIC GROUND MOTION PARAMETERS

Sladden has reviewed the 2022 California Building Code (CBC) and ASCE7-16 and developed site-specific ground motion parameters for the subject site. The project Seismic Design Maps and site-specific ground motion parameters are summarized in the following table and included within Appendix C. The project Structural Engineer should verify that all design parameters provided are applicable for the subject project.

TABLE 3
GROUND MOTION PARAMETERS

Latitude / Longitude	34.1669/-116.4207
Risk Category	II
Site Class	D
Code Reference Documents	ASCE 7-16; Chapter 11 & 21

Description	Type	Map Based	Site-Specific
MCE_R Ground Motion (0.2 second period)	S_S	2.162	---
MCE_R Ground Motion (1.0 second period)	S_1	0.766	---
Site-Modified Spectral Acceleration Value	S_{MS}	2.162	**2.466**
Site-Modified Spectral Acceleration Value	S_{M1}	Null	**1.902**
Numeric Seismic Design Value at 0.2 second SA	S_{DS}	1.441	**1.644**
Numeric Seismic Design Value at 1.0 second SA	S_{D1}	Null	**1.268**
Site Amplification Factor at 0.2 second	F_a	1.0	**1.0**
Site Amplification Factor at 1.0 second	F_v	Null	**2.5**
Site Peak Ground Acceleration	PGA_M	1.013	**0.938**

GEOLOGIC HAZARDS

The subject site is located in an active seismic zone and will likely experience strong seismic shaking during the design life of the proposed project. In general, the intensity of ground shaking will depend on several factors including; the distance to the earthquake focus, the earthquake magnitude, the response characteristics of the underlying materials, and the quality and type of construction. Geologic hazards and their relationship to the site are discussed below.

I. Surface Rupture. Surface rupture is expected to occur along preexisting, known active fault traces. However, surface rupture could potentially splay or step from known active faults or rupture along unidentified traces. Based on our review of CGS (2024) and CDMG (1993), the site is located within the Landers fault zone (Figure 4). ***In accordance with current State of California guidelines, subsurface fault studies should be performed to identify the active surface rupture potential. Habitable structures are not permitted to be constructed across active fault splays. Local planning agencies are responsible for regulating and enforcing the applicable laws and ordinances regarding building and construction in accordance with state and local requirements. This includes oversight regarding the construction of structures not intended for human occupancy on parcels delineated to be within the fault zone. Based on the nature of the project, it is our understanding the proposed self-storage units and office are not intended for human occupancy or to exceed 2,000 person-hours per year.***

II. Ground Shaking. The site has been subjected to past ground shaking by faults that traverse through the region. Strong seismic shaking from nearby active faults is expected to produce strong seismic shaking during the design life of the proposed project. Based on site-specific ground motion parameters developed for the property (Appendix C), the site-modified peak ground acceleration (PGAm) is estimated to be 0.938g.

III. Liquefaction. Liquefaction is the process in which loose, saturated granular soil loses strength as a result of cyclic loading. The strength loss is a result of a decrease in granular sand volume and a positive increase in pore pressures. Generally, liquefaction can occur if all of the following conditions apply; liquefaction-susceptible soil, groundwater within a depth of 50 feet or less, and strong seismic shaking. Based on the depth of groundwater greater than 50 feet, risks associated with liquefaction should be considered "low".

IV. Tsunamis and Seiches. Because the site is situated at an inland location and is not immediately adjacent to any impounded bodies of water, risks associated with tsunamis and seiches are considered "negligible".

V. Slope Failure, Landsliding, Rock Falls. Slope instability in the form of landslides and rock falls were not observed at or near the subject site. The site is situated on relatively flat ground and is not located immediately adjacent to any slopes. As such, risks associated with slope instability (landslides, mass wasting, and rock falls) are considered "negligible".

VI. Expansive Soil. Generally, the site soil consists of silty sand (SM)). Based on the results of our laboratory testing (EI=1), the materials underlying the site are considered non-expansive.

VII. Static Settlement. Static settlement resulting from the anticipated foundation loads should be tolerable provided that the recommendations included in this report are considered in foundation design and construction. The ultimate static settlement is expected to be less than 1 inch when using the recommended allowable bearing pressures. As a practical matter, differential static settlement between footings can be assumed as one-half of the total static settlement.

VIII. Subsidence. Land subsidence can occur in valleys where aquifer systems have been subjected to extensive groundwater pumping, such that groundwater pumping exceeds groundwater recharge. Generally, pore water reduction can result in a rearrangement of skeletal grains and could result in elastic (recoverable) or inelastic (unrecoverable) deformation of an aquifer system. Locally, no fissures or other surficial evidence of subsidence were observed at or near the subject site.

IX. Debris Flows. Debris flows are viscous flows consisting of poorly sorted mixtures of sediment and water and are generally initiated on slopes steeper than approximately six horizontal to one vertical (6H:1V) (Boggs, 2001). Based on the flat nature of the site and the composition of the surface soil, we judge that risks associated with debris flows should be considered "negligible".

X. Flooding and Erosion. No signs of flooding or erosion were observed during our field investigation. Risks associated with flooding and erosion should be evaluated and mitigated by the project design Civil Engineer.

CONCLUSIONS

Based on the results of our investigation, it is our professional opinion that the project should be feasible from a geotechnical perspective provided that the recommendations included in this report are incorporated into design and carried out through construction. The main geotechnical concerns are the presence of loose and potentially compressible near-surface native soil throughout the project site, and the potentially active fault splay located on the property.

We recommend that remedial work within the proposed new building areas include over-excavation and re-compaction of the primary foundation-bearing soil to provide uniform foundation support and to help mitigate potential differential settlements. Specific recommendations for foundation area preparation are presented in the Earthwork and Grading section of this report.

As previously stated, the subject parcel is located within a State of California delineated fault zone (Figure 4). In accordance with current State of California guidelines, habitable structures are not permitted to be constructed within the fault zone unless the absence of active faulting can be demonstrated. Based on the nature of the proposed project, it is our understanding the proposed self-storage units and office are not intended for human occupancy or to exceed 2,000 person-hours per year. If the proposed project is expected to exceed 2,000 persons-hours or vary significantly, Sladden should be contacted to re-evaluate the necessity for a subsurface fault study.

Caving did occur to varying degrees within each of our exploratory bores and the surface soil may be susceptible to caving within deeper excavations. All excavations should be constructed in accordance with the normal CalOSHA excavation criteria. Based on our observations of the materials encountered, we anticipate that the subsoil will conform to that described by CalOSHA as Type C. Soil conditions should be verified in the field by a "Competent person" employed by the Contractor. The following recommendations present more detailed design criteria that have been developed based on our field and laboratory investigation.

EARTHWORK AND GRADING

All earthwork including excavation, backfill, and preparation of the primary foundation and/or slab bearing soil should be performed in accordance with the geotechnical recommendations presented in this report and portions of the local regulatory requirements, as applicable. All earthwork should be performed under the observation and testing of a qualified soil engineer. The following geotechnical engineering recommendations for the proposed project are based on observations from the field investigation program, laboratory testing, and geotechnical engineering analyses.

a. Site Clearing: Areas to be graded should be cleared of vegetation, associated root systems, underground utilities, and debris. All areas scheduled to receive fill should be cleared of old fills and any irreducible matter. The strippings should be removed off-site, or stockpiled for later use in landscape areas. Voids left by obstructions should be properly backfilled in accordance with the compaction recommendations of this report.

b. Preparation of the Building Foundation Areas. To provide firm and uniform foundation-bearing conditions, we recommend over-excavation and re-compaction throughout the proposed building and foundation areas. All artificial fill soil and native low density near surface native soil should be removed to a depth of at least 2 feet below existing grade or 2 feet below the bottom of the footings, whichever is deeper. Remedial grading should extend laterally, a minimum of five feet beyond the building limits where possible. The native soil exposed by over-excavation should be scarified, moisture conditioned to near optimum moisture content, and compacted to at least 90 percent relative compaction prior to fill placement. The previously removed soil may then be replaced as compacted engineered soil in accordance with the recommendations below.

c. Compaction: Soil to be used as engineered fill should be free of organic material, debris, and other deleterious substances. All fill material should be placed in thin lifts, not exceeding six inches in a loose condition. If import fill is required, the material should be of a low to non-expansive nature and should meet the following criteria:

Plastic Index	Less than 12
Liquid Limit	Less than 35
Percent Soil Passing #200 Sieve	Between 15% and 35%
Maximum Aggregate Size	3 inches

The subgrade and all fill should be compacted with acceptable compaction equipment, to at least 90 percent relative compaction. The bottom of the exposed subgrade should be observed by a representative of Sladden Engineering prior to fill placement. Compaction testing should be performed on all lifts to ensure proper placement of the fill materials. Table 4 provides a summary of the excavation and compaction recommendations.

TABLE 4 SUMMARY OF RECOMMENDATIONS	
*Remedial Grading	Over-excavation and re-compaction within the building envelope and extending laterally for 5 feet beyond the building limits where possible and to a minimum of 2 feet below existing grade or 2 feet below the bottom of the footings, whichever is deeper.
Native / Import Engineered Fill	Place in thin lifts not exceeding 6 inches in a loose condition, at near optimum moisture content and compact to a minimum of 90 percent relative compaction.
Asphalt Concrete Sections	Compact the top 12 inches to at least 95 percent compaction at near optimum moisture content.

*Actual depth may vary and should be determined by a representative of Sladden Engineering in the field during construction.

d. Shrinkage and Subsidence**:** Volumetric shrinkage of the material that is excavated and replaced as controlled compacted fill should be anticipated. We estimate that this shrinkage should be between 10 and 20 percent. Subsidence of the surfaces that are scarified and compacted should be between 1 tenth and 2 tenths of a foot. This will vary depending upon the type of equipment used, the moisture content of the soil at the time of grading and the actual degree of compaction attained.

CONVENTIONAL SHALLOW SPREAD FOOTINGS

Conventional shallow spread footings are expected to provide adequate support for the proposed structures. All footings should be founded upon properly compacted engineered fill soil and should have a minimum embedment depth of 12 inches measured from the lowest adjacent finished grade. Continuous footings and isolated pad footings should have minimum widths of 12 inches and 24 inches, respectively. Continuous footings and isolated pad footings supported upon properly compacted engineered fill soil may be designed using allowable (net) bearing pressures of 1800 and 2000 pounds per square foot (psf), respectively. Allowable increases of 200 psf for each additional 1 foot of width and 250 psf for each additional 6 inches of depth may be used if desired. The maximum allowable bearing pressure should be 2500 psf. The allowable bearing pressures are intended for combined dead and sustained live loads. The allowable bearing pressures may be increased by one-third when considering transient live loads, including seismic and wind forces.

Based on the recommended allowable bearing pressures, the total static settlement of the shallow footings is anticipated to be less than one inch provided foundation preparations conform to the recommendations described in this report. Static differential settlement is anticipated to be approximately one-half of the total settlement for similarly loaded footings spaced up to approximately 40 feet apart.

Lateral load resistance for the spread footings will be developed by passive pressure against the sides of the footings below grade and by friction acting at the base of the footings. An allowable passive pressure of 250 psf per foot of depth may be used for design purposes. An allowable coefficient of friction 0.45 may be used for dead and sustained live loads to compute the frictional resistance of the footing placed directly on compacted fill. Under seismic and wind loading conditions, the passive pressure and frictional resistance may be increased by one-third.

All footing excavations should be observed by a representative of the project geotechnical consultant to verify adequate embedment depths prior to placement of forms, steel reinforcement, or concrete. The excavations should be trimmed neat, level and square. All loose, disturbed, sloughed, or moisture-softened soils and/or any construction debris should be removed prior to concrete placement. All footings should be reinforced in accordance with the project Structural Engineer's recommendations.

SLABS-ON-GRADE

To provide uniform and adequate support, concrete slabs-on-grade must be placed on properly compacted engineered fill soil as outlined in the previous sections of this report. The slab subgrade should remain near optimum moisture content and should not be permitted to dry prior to concrete placement. Slab subgrade should be firm and unyielding. Disturbed soil should be removed and replaced with engineered fill soil compacted to a minimum of 90 percent relative compaction.

Slab thickness and reinforcement should be determined by the Structural Engineer. We recommend a minimum slab thickness of 4.0 inches and minimum reinforcement of #3 bars at 18 inches on center in both directions. All slab reinforcement should be supported on concrete chairs to ensure that reinforcement is placed at slab mid-height. Final floor slab design and reinforcement should be determined by the Structural Engineer.

Slabs with moisture-sensitive surfaces should be underlain with a moisture vapor retarder consisting of a polyvinyl chloride membrane such as 10-mil visqueen, or equivalent. All laps within the membrane should be sealed and at least 2 inches of clean sand should be placed over the membrane to promote uniform curing of the concrete. To reduce the potential for punctures, the membrane should be placed on a pad surface that has been graded smooth without any sharp protrusions. If a smooth surface can not be achieved by grading, consideration should be given to placing a thin leveling course of sand across the pad surface prior to placement of the membrane.

RETAINING WALLS

Minor retaining walls may be necessary to complete the proposed construction. Cantilever retaining walls may be designed using "active" pressures. Active pressures may be estimated using an equivalent fluid weight of 35 pcf for level native backfill soil acting in a triangular pressure distribution with drained backfill conditions. "At Rest" pressures should be utilized for restrained walls. At rest pressures may be estimated using an equivalent fluid weight of 55 pcf for native backfill soil with level drained backfill conditions.

We recommend that a back drain system be provided behind all retaining walls or that the walls be designed for full hydrostatic pressures. The back drains should consist of a heavy walled, four-inch diameter, perforated pipe sloped to drain to outlets by gravity, and of clean, free-draining, three-quarter to one-and-a-half-inch crushed rock or gravel. The crushed rock or gravel should extend to within one foot of the surface. The upper one foot should be backfilled with compacted, fine-grained soil to exclude surface water. A Mirafi 140N (or equivalent) filter cloth should be placed between the on-site native material and the drain rock.

We recommend that the ground surface behind retaining walls be sloped to drain. Under no circumstances should the surface water be diverted into back drains. Where migration of moisture through walls would be detrimental, the walls should be waterproofed.

CORROSION SERIES

The soluble sulfate concentrations of the surface soil were determined to be 20 parts per million (ppm). The soil falls within the "negligible-S0" sulfate exposure category. The use of Type V cement and special sulfate-resistant concrete mixes may not be necessary. The soluble sulfate content of the surface soil should be reevaluated after grading and appropriate concrete mix designs should be established based upon post-grading test results.

The pH level of the surface soil was determined to be 7.7. Based on soluble chloride concentration testing (80 ppm) the falls within the "C1" chloride exposure category. The minimum resistivity of the surface soil was found to be 6,700 that suggests the site soil is considered to have a "low" corrosion potential with respect to ferrous metal installations. A corrosion expert should be consulted regarding appropriate corrosion protection measures for corrosion-sensitive installations.

UTILITY TRENCH BACKFILL

All utility trench backfill should be compacted to a minimum of 90 percent relative compaction. Trench backfill materials should be placed in lifts no greater than six inches in a loose condition, moisture conditioned (or air-dried) as necessary to achieve near optimum moisture content, and mechanically compacted to a minimum of 90 percent relative compaction. A representative of the project soil engineer should test the backfill to verify adequate compaction.

EXTERIOR CONCRETE FLATWORK

To provide uniform support and minimize settlement related cracking of concrete flatwork, the subgrade soil within concrete flatwork areas should be compacted to a minimum of 90 percent relative compaction. A representative of the project geotechnical consultant should observe and verify the density and moisture content of the soil prior to concrete placement.

DRAINAGE

All final grades should be provided with positive gradients away from foundations to provide rapid removal of surface water runoff to an adequate discharge point. No water should be allowed to be pond on or immediately adjacent to foundation elements. To reduce water infiltration into the subgrade soil, surface water should be directed away from building foundations to an adequate discharge point. Subgrade drainage should be evaluated upon completion of the precise grading plans and in the field during grading.

LIMITATIONS

The findings and recommendations presented in this report are based upon an interpolation of the soil conditions between the exploratory locations and extrapolation of these conditions throughout the proposed building areas. Should conditions encountered during grading appear different than those indicated in this report, this office should be notified.

The use of this report by other parties or for other projects is not authorized. The recommendations of this report are contingent upon monitoring of the grading operation by a representative of Sladden Engineering. All recommendations are considered to be tentative pending our review of the grading operation and additional testing, if indicated. If others are employed to perform any soil testing, this office should be notified prior to such testing to coordinate any required site visits by our representative and to assure indemnification of Sladden Engineering.

We recommend that a pre-job conference be held on the site prior to the initiation of site grading. The purpose of this meeting will be to assure a complete understanding of the recommendations presented in this report as they apply to the actual grading performed.

ADDITIONAL SERVICES

Once completed, final project plans and specifications should be reviewed by use prior to construction to confirm that the full intent of the recommendations presented herein have been applied to design and construction. Following review of plans and specifications, observation should be performed by the Soil Engineer during construction to document that foundation elements are founded on/or extend into the properly compacted soil, and that suitable backfill soil is placed upon competent materials and properly compacted at the recommended moisture content.

Tests and observations should be performed during grading by the Soil Engineer or his representative in order to verify that the grading is being performed in accordance with the project specifications. Field density testing shall be performed in accordance with acceptable ASTM test methods. The minimum acceptable degree of compaction should be 90 percent for engineered fill soil and 95 percent for Class II aggregate base as obtained by ASTM Test Method D1557. Where testing indicates insufficient density, additional compactive effort shall be applied until retesting indicates satisfactory compaction.

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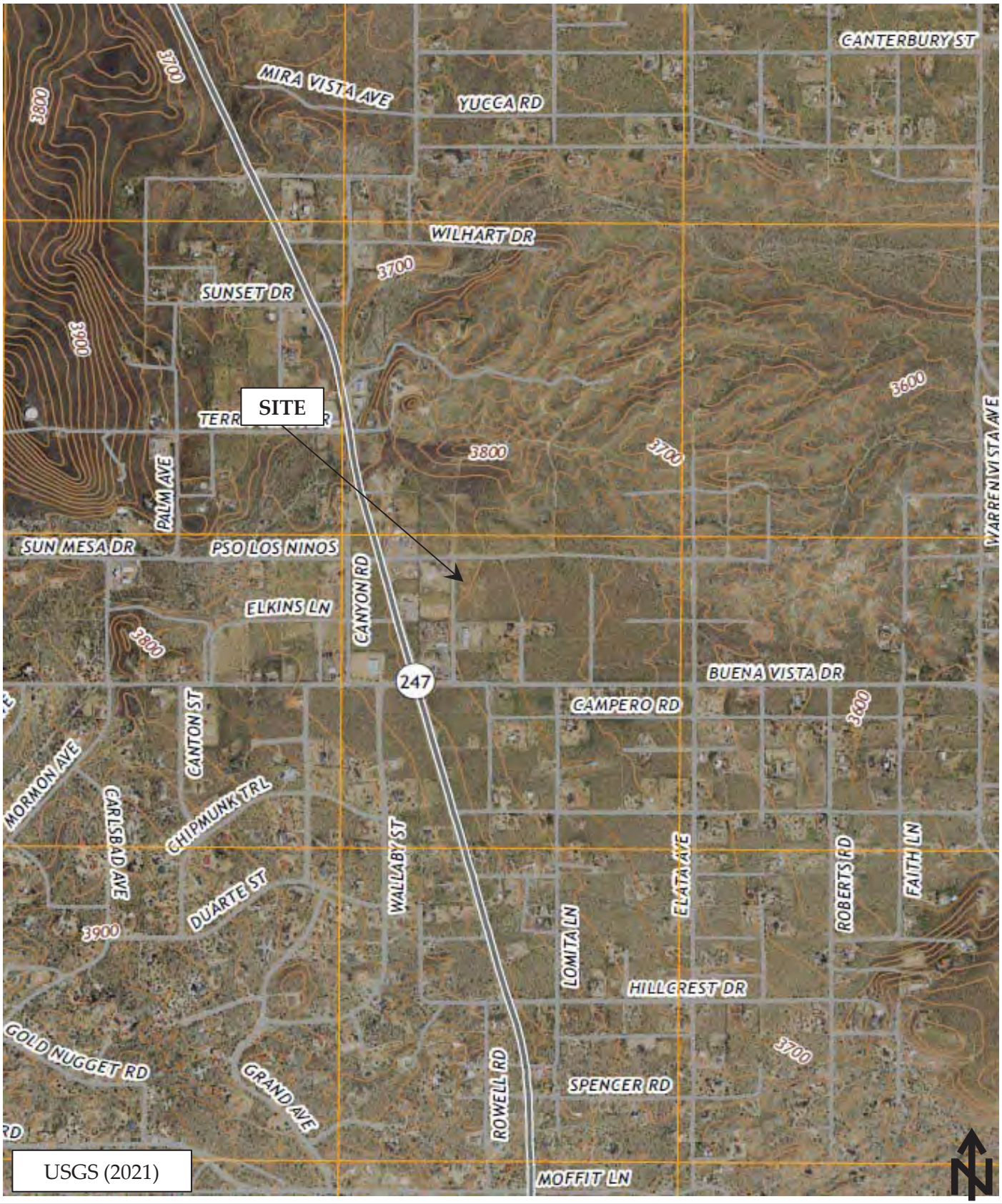
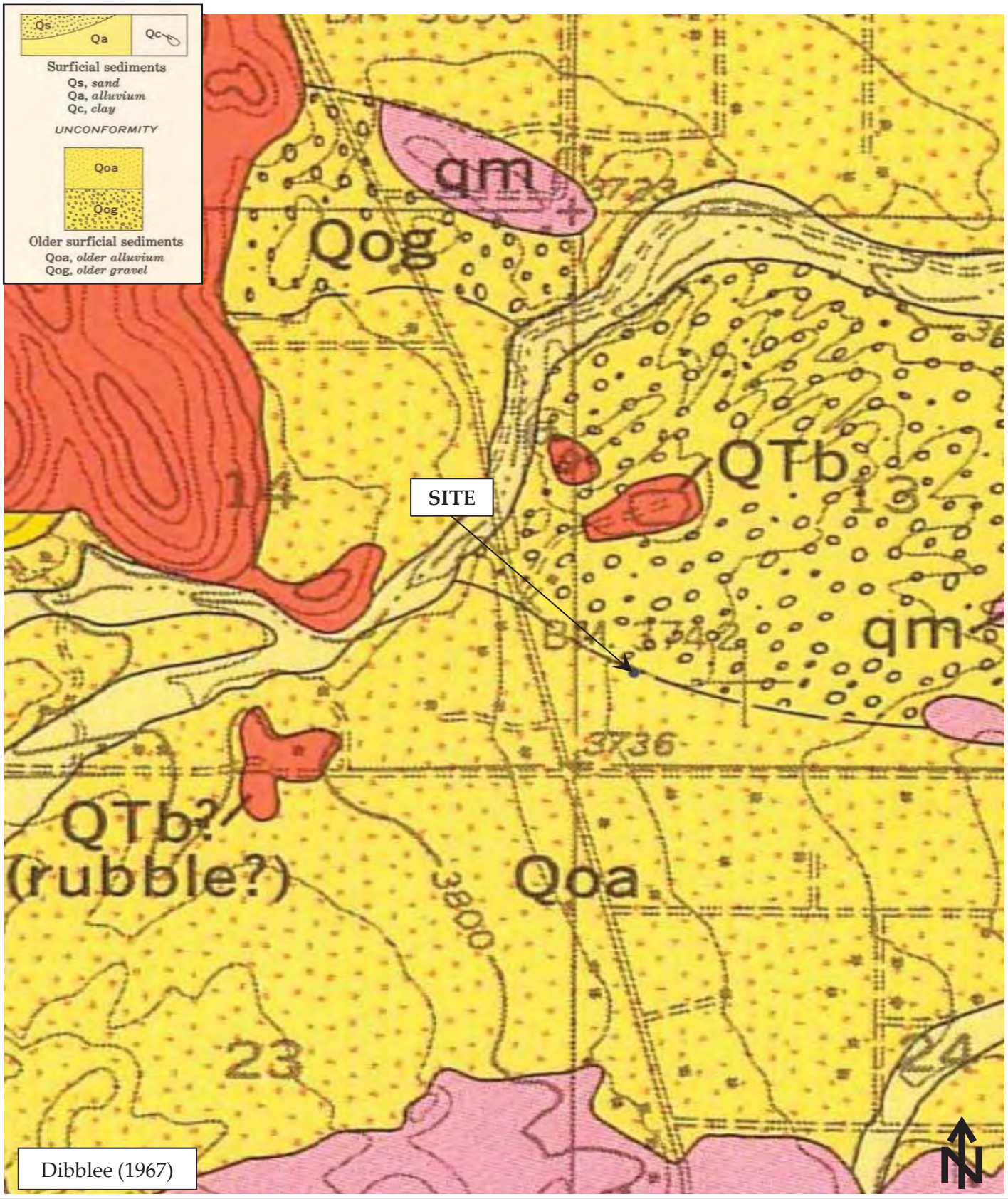
PLATES

SITE LOCATION MAP
REGIONAL GEOLOGIC MAP
EXPLORATION LOCATION PHOTOGRAPH
AP FAULT ZONE MAP

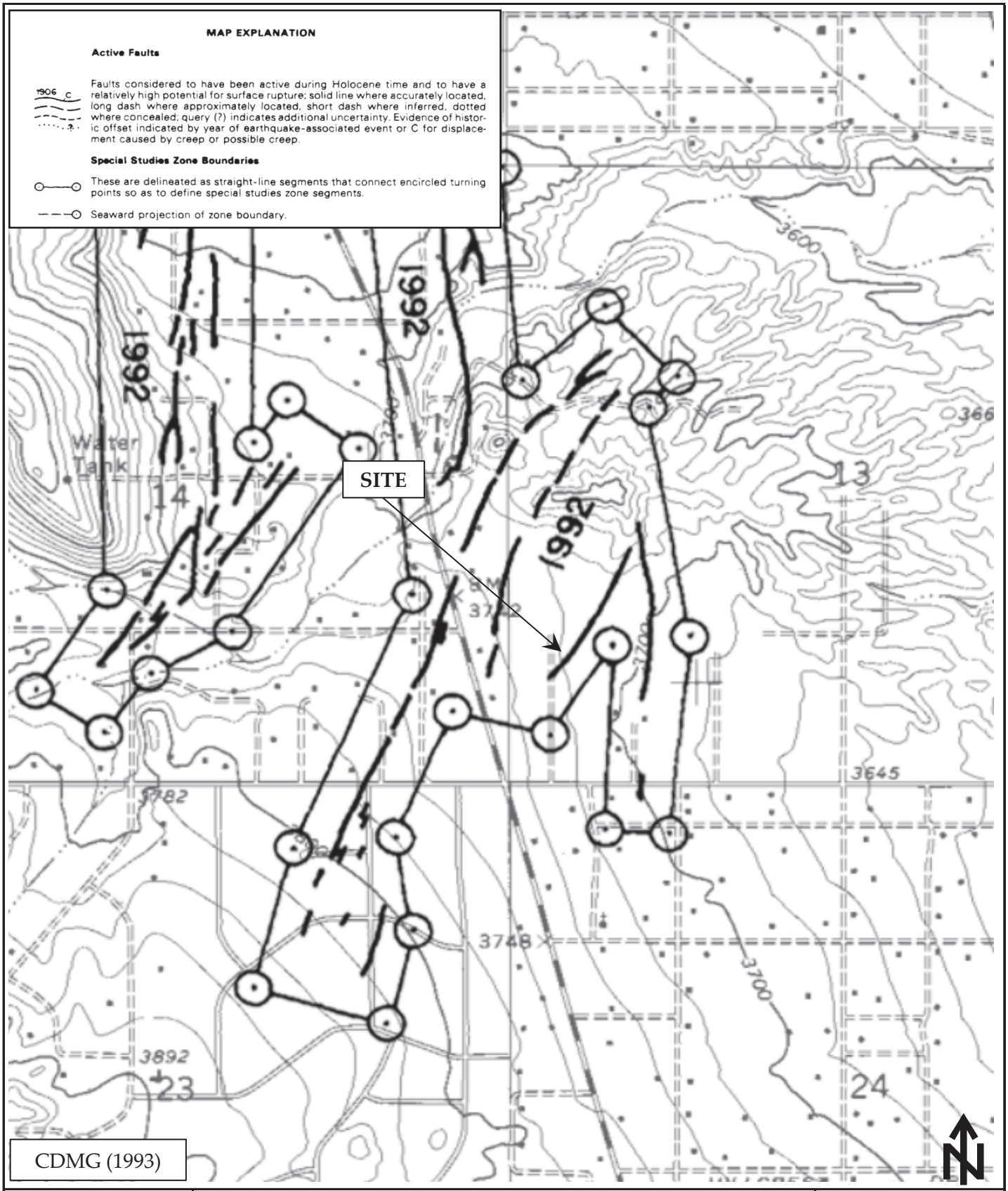


Sladden Engineering	SITE LOCATION MAP	PLATE 1
	Project Number: 544-24365	
	Report Number: 25-01-003	
	Date: January 2, 2024	



Sladden Engineering	REGIONAL GEOLOGIC MAP	PLATE 2
	Project Number: 544-24365	
	Report Number: 25-01-003	
	Date: January 2, 2024	

Sladden Engineering	EXPLORATION LOCATION PHOTOGRPAH	PLATE 3
	Project Number: 544-24365	
	Report Number: 25-01-003	
	Date: January 2, 2024	



Sladden Engineering	AP FAULT ZONE MAP		PLATE 4
	Project Number:	544-24365	
	Report Number:	25-01-003	
	Date:	January 2, 2024	

APPENDIX A

FIELD EXPLORATION

APPENDIX A

FIELD EXPLORATION

For our field investigation two (2) exploratory bores and four (4) percolation test holes were excavated on the subject site. Continuous logs of the materials encountered were made by a representative of Sladden Engineering. Materials encountered in the bores were classified in accordance with the Unified Soil Classification System.

Representative undisturbed samples were obtained within our borings by driving a thin-walled steel penetration sampler (California split spoon sampler) or a Standard Penetration Test (SPT) sampler with a 140 pound automatic-trip hammer dropping approximately 30 inches (ASTM D1586). The number of blows required to drive the samplers 18 inches was recorded in 6-inch increments and blowcounts are indicated on the boring logs.

The California samplers are 3.0 inches in diameter, carrying brass sample rings having inner diameters of 2.5 inches. The standard penetration samplers are 2.0 inches in diameter with an inner diameter of 1.5 inches. Undisturbed samples were removed from the sampler and placed in moisture sealed containers in order to preserve the natural soil moisture content. Bulk samples were obtained from the excavation spoils and samples were then transported to our laboratory for further observations and testing.

.

Sladden Engineering

BORE LOG

Equipment:	MOBILE B-61	Date Drilled:	12/3/2024
Elevation:	3,719 FT MSL	Boring No:	BH-1

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
■	14 14 17	1	1		2.7	117.8	2		Silty Sand (SM); stong brown, dry, medium dense, fine to coarse-grained, with calcium carbonate (Qoa).
■	13 16 11				2.7	111.4	6		Silty Sand (SM); stong brown, dry, medium dense, fine to coarse-grained, with calcium carbonate and rootlets (Qoa).
■	5 7 8				2.8		10		Sand (SW)-Silty Sand (SM); strong brown, dry, medium dense, fine to coarse-grained, with gravel (Qoa).
■	12 14 16				1.6	104.4	16		Silty Sand (SM); light brown, dry, medium dense, fine to coarse-grained, with calcium carbonate (Qoa).
■	10 13 13				2.2		20		Silty Sand (SM); light brown, dry, medium dense, fine to coarse-grained, with calcium carbonate (Qoa).
							22		Terminated at ~ 21.5 ft bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered.

Completion Notes:

PROPOSED SELF-STORAGE FACILITY
SEC SUN MESA DRIVE & NEWTON LANE, YUCCA VALLEY

Project No:	544-24365	Page	1
Report No:	25-01-003		

Sladden Engineering

BORE LOG

Equipment:	MOBILE B-61	Date Drilled:	12/3/2024
Elevation:	3,719 FT MSL	Boring No:	BH-2

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2, 4		
	15 16 13				3.3		6, 8		Silty Sand (SM); stong brown, dry, medium dense, fine to coarse-grained, with calcium carbonate (Qoa).
	11 16 20				1.7	113.6	10, 12, 14		Sand (SW)-Silty Sand (SM); strong brown, dry, medium dense, fine to coarse-grained, with gravel (Qoa).
	7 9 11				1.4		16		Silty Sand (SM); light brown, dry, medium dense, fine to coarse-grained, with calcium carbonate (Qoa).
							18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50		Terminated at ~ 15 ft bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Cased to Facilitate Percolation Testing.

Completion Notes:

PROPOSED SELF-STORAGE FACILITY
SEC SUN MESA DRIVE & NEWTON LANE, YUCCA VALLEY

Project No:	544-24365	Page	2
Report No:	25-01-003		

Sladden Engineering

BORE LOG

Equipment:	MOBILE B-61	Date Drilled:	12/3/2024
Elevation:	3,719 FT MSL	Boring No:	P-1

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); streong brown, dry, fine to coarse-grained, with calcium carbonate (Qoa).
							4		
							6		Terminated at ~ 5 ft bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Cased to Facilitate Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED SELF-STORAGE FACILITY
SEC SUN MESA DRIVE & NEWTON LANE, YUCCA VALLEY

Project No: 544-24365
Report No: 25-01-003

Sladden Engineering

BORE LOG

Equipment:	MOBILE B-61	Date Drilled:	12/3/2024
Elevation:	3,719 FT MSL	Boring No:	P-2

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); streong brown, dry, fine to coarse-grained, with calcium carbonate (Qoa).
							4		
							6		Terminated at ~ 5 ft bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Cased to Facilitate Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED SELF-STORAGE FACILITY
SEC SUN MESA DRIVE & NEWTON LANE, YUCCA VALLEY

Project No: 544-24365
Report No: 25-01-003

Sladden Engineering

BORE LOG

Equipment:	MOBILE B-61	Date Drilled:	12/3/2024
Elevation:	3,719 FT MSL	Boring No:	P-3

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); streong brown, dry, fine to coarse-grained, with calcium carbonate (Qoa).
							4		
							6		Terminated at ~ 5 ft bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Cased to Facilitate Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED SELF-STORAGE FACILITY
SEC SUN MESA DRIVE & NEWTON LANE, YUCCA VALLEY

Project No:	544-24365	Page	5
Report No:	25-01-003		

Sladden Engineering

BORE LOG

Equipment:	MOBILE B-61	Date Drilled:	12/3/2024
Elevation:	3,719 FT MSL	Boring No:	P-4

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); streong brown, dry, fine to coarse-grained, with calcium carbonate (Qoa).
							4		
							6		Terminated at ~ 5 ft bgs. No Bedrock Encountered. No Groundwater or Seepage Encountered. Cased to Facilitate Percolation Testing.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
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							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED SELF-STORAGE FACILITY
SEC SUN MESA DRIVE & NEWTON LANE, YUCCA VALLEY

Project No: 544-24365
Report No: 25-01-003

APPENDIX B

LABORATORY TESTING

APPENDIX B

LABORATORY TESTING

Representative bulk soil samples were obtained in the field and returned to our laboratory for additional observations and testing. Laboratory testing was generally performed in two phases. The first phase consisted of testing in order to determine the compaction of the existing natural soil and the general engineering classifications of the soils underlying the site. This testing was performed in order to estimate the engineering characteristics of the soil and to serve as a basis for selecting samples for the second phase of testing. The second phase consisted of soil mechanics testing. This testing including consolidation, shear strength and expansion testing was performed in order to provide a means of developing specific design recommendations based on the mechanical properties of the soil.

CLASSIFICATION AND COMPACTION TESTING

Maximum Density-Optimum Moisture Determinations: Representative soil types were selected for maximum density determinations. This testing was performed in accordance with the ASTM Standard D1557, Test Method A. Graphic representations of the results of this testing are presented in this appendix. The maximum densities are compared to the field densities of the soil in order to determine the existing relative compaction to the soil.

Classification Testing: Soil samples were selected for classification testing. This testing consists of mechanical grain size analyses. This provides information for developing classifications for the soil in accordance with the Unified Soil Classification System which is presented in the preceding appendix. This classification system categorizes the soil into groups having similar engineering characteristics. The results of this testing is very useful in detecting variations in the soil and in selecting samples for further testing.

SOIL MECHANIC'S TESTING

Expansion Testing: One (1) bulk sample was selected for Expansion testing. Expansion testing was performed in accordance with the UBC Standard 18-2. This testing consists of remolding 4-inch diameter by 1-inch thick test specimens to a moisture content and dry density corresponding to approximately 50 percent saturation. The samples are subjected to a surcharge of 144 pounds per square foot and allowed to reach equilibrium. At that point the specimens are inundated with distilled water. The linear expansion is then measured until complete.

Direct Shear Testing: One (1) bulk sample was selected for Direct Shear testing. This test measures the shear strength of the soil under various normal pressures and is used to develop parameters for foundation design and lateral design. Tests were performed using a recompacted test specimen that was saturated prior to tests. Tests were performed using a strain controlled test apparatus with normal pressures ranging from 800 to 2300 pounds per square foot.

Corrosion Series Testing: The soluble sulfate concentrations of the surface soil were determined in accordance with California Test Method Number (CA) 417. The pH and Minimum Resistivity were determined in accordance with CA 643. The soluble chloride concentrations were determined in accordance with CA 422.

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6782 Stanton Ave., Suite C, Buena Park, CA 90621 (714) 523-0952 Fax (714) 523-1369
45090 Golf Center Pkwy, Suite F, Indio, CA 92201 (760) 863-0713 Fax (760) 863-0847
450 Egan Avenue, Beaumont, CA 92223 (951) 845-7743 Fax (951) 845-8863

Date: January 17, 2025

Account No.: 544-24365

Customer: Rob Billings

Location: APN 0597-111-67, Self-Storage Facility, Sun Mesa Drive, Yucca Valley

Analytical Report

Corrosion Series

	pH per CA 643	Soluble Sulfates per CA 417 ppm	Soluble Chloride per CA 422 ppm	Min. Resistivity per CA 643 ohm-cm
BH-1 @ 0-5’	7.7	20	80	6,700

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Maximum Density/Optimum Moisture

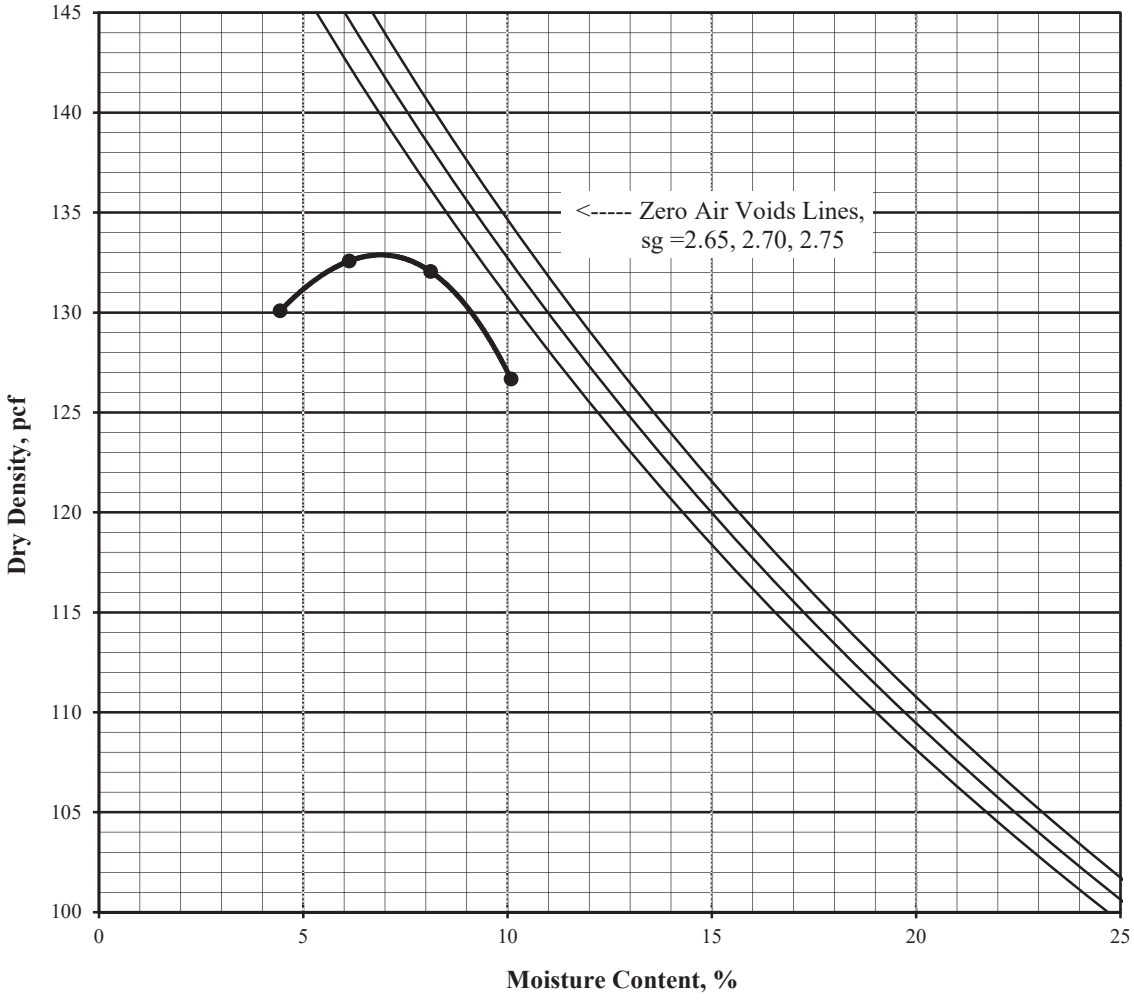
ASTM D698/D1557

Project Number: 544-24365
Project Name: Sun Mesa Drive
Lab ID Number: LN6-24549
Sample Location: BH-1 Bulk 1 @ 0-5'
Description: Brown Silty Sand (SM)

ASTM D-1557 A
Rammer Type: Machine

Maximum Density: 134 pcf
Optimum Moisture: 7%

Sieve Size	% Retained
3/4"	
3/8"	
#4	1.4



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Expansion Index

ASTM D 4829

Job Number: 544-24365

Job Name: Sun Mesa Drive

Lab ID Number: LN6-24549

Sample ID: BH-1 Bulk 1 @ 0-5'

Soil Description: Brown Silty Sand (SM)

January 17, 2025

Wt of Soil + Ring:	610.4
Weight of Ring:	194.6
Wt of Wet Soil:	415.8
Percent Moisture:	6.5%
Sample Height, in	0.95
Wet Density, pcf:	133.1
Dry Denstiy, pcf:	124.9

% Saturation:	50.3

Expansion **Rack # 2**

Date/Time	1/14/2025	2:30pm
Initial Reading	0.0000	
Final Reading	0.0008	

Expansion Index **1**

(Final - Initial) x 1000

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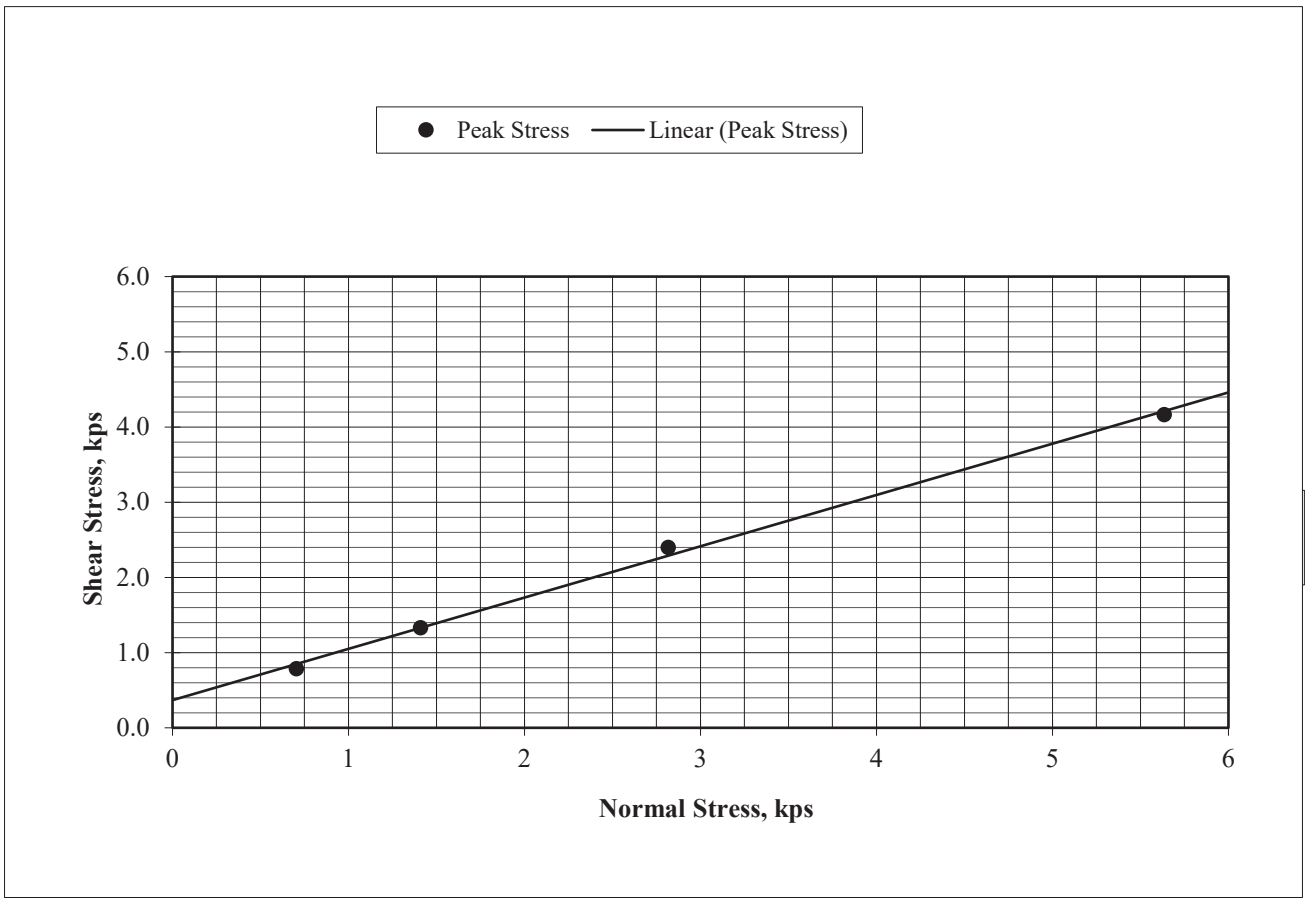
Direct Shear ASTM D 3080-04
(modified for unconsolidated condition)

Job Number:	544-24365		January 17, 2025
Job Name	Sun Mesa Drive	Initial Dry Density:	121.1 pcf
Lab ID No.	LN6-24549	Initial Mosture Content:	6.9 %
Sample ID	BH-1 Bulk @ 0-5'	Peak Friction Angle (Ø):	34°
Classification	Brown Silty Sand (SM)	Cohesion (c):	370 psf
Sample Type	Remolded @ 90% of Maximum Density		

Test Results	1	2	3	4	Average
Moisture Content, %	11.1	11.1	11.1	11.1	11.1
Saturation, %	76.6	76.6	76.6	76.6	76.6
Normal Stress, kps	0.704	1.409	2.817	5.635	
Peak Stress, kps	0.785	1.330	2.398	4.164	



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Gradation

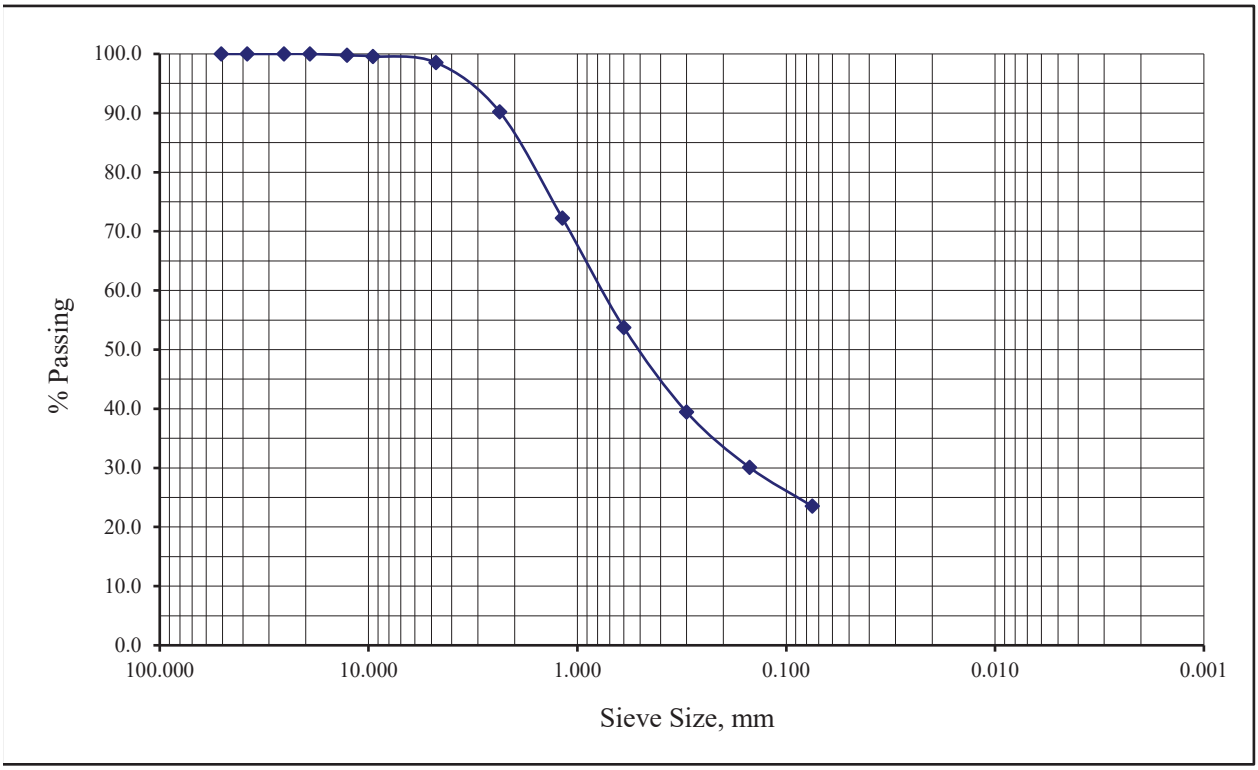
ASTM C117 & C136

Project Number: 544-24365
Project Name: Sun Mesa Drive
Lab ID Number: LN6-24549
Sample ID: BH-1 Bulk 1 @ 0-5'

January 17, 2025

Soil Classification: SM

Sieve Size, in	Sieve Size, mm	Percent Passing
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	99.8
3/8"	9.53	99.6
#4	4.75	98.5
#8	2.36	90.2
#16	1.18	72.2
#30	0.60	53.7
#50	0.30	39.4
#100	0.15	30.1
#200	0.075	23.5



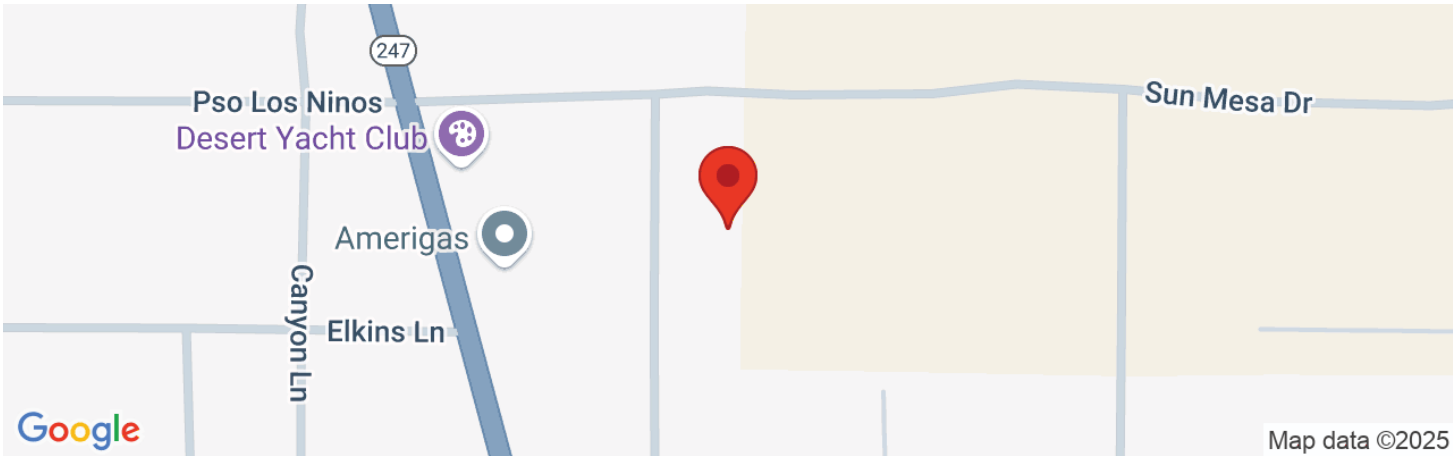
APPENDIX C

SEISMIC DESIGN MAP AND REPORT
SITE-SPECIFIC GROUND MOTION PARAMETERS

USGS web services were down for some period of time and as a result this tool wasn't operational, resulting in *timeout* error.
USGS web services are now operational so this tool should work as expected.

544-24365

Latitude, Longitude: 34.1669, -116.4207



Date	1/7/2025, 10:49:39 AM
Design Code Reference Document	ASCE7-16
Risk Category	II
Site Class	D - Stiff Soil

Type	Value	Description
S_S	2.162	MCE_R ground motion. (for 0.2 second period)
S_1	0.766	MCE_R ground motion. (for 1.0s period)
S_{MS}	2.162	Site-modified spectral acceleration value
S_{M1}	null -See Section 11.4.8	Site-modified spectral acceleration value
S_{DS}	1.441	Numeric seismic design value at 0.2 second SA
S_{D1}	null -See Section 11.4.8	Numeric seismic design value at 1.0 second SA

Type	Value	Description
SDC	null -See Section 11.4.8	Seismic design category
F_a	1	Site amplification factor at 0.2 second
F_v	null -See Section 11.4.8	Site amplification factor at 1.0 second
PGA	0.921	MCE_G peak ground acceleration
F_{PGA}	1.1	Site amplification factor at PGA
PGA_M	1.013	Site modified peak ground acceleration
T_L	8	Long-period transition period in seconds
SsRT	2.162	Probabilistic risk-targeted ground motion. (0.2 second)
SsUH	2.377	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration
SsD	2.269	Factored deterministic acceleration value. (0.2 second)
S1RT	0.766	Probabilistic risk-targeted ground motion. (1.0 second)
S1UH	0.854	Factored uniform-hazard (2% probability of exceedance in 50 years) spectral acceleration.
S1D	0.805	Factored deterministic acceleration value. (1.0 second)
PGAd	0.938	Factored deterministic acceleration value. (Peak Ground Acceleration)

Type	Value	Description
PGA_{UH}	0.921	Uniform-hazard (2% probability of exceedance in 50 years) Peak Ground Acceleration
C_{RS}	0.91	Mapped value of the risk coefficient at short periods
C_{R1}	0.897	Mapped value of the risk coefficient at a period of 1 s
C_V	1.5	Vertical coefficient

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SITE-SPECIFIC GROUND MOTION ANALYSIS
(ASCE 7-16)

Project: PROPOSED SELF-STORAGE FACILITY
Project Number: 544-24365
Client: MR. ROB BILLINGS
Site Lat/Long: 34.1669/-116.4207
Controlling Seismic Source: Landers

REFERENCE	NOTATION	VALUE
Site Class	C, D, D default, or E	D measured
Site Class D - Table 11.4-1	F_a	1.0
Site Class D - 21.3(ii)	F_v	2.5
$0.2*(S_{D1}/S_{DS})$	T_0	0.177
S_{D1}/S_{DS}	T_S	0.886
Fundamental Period (12.8.2)	T	Period
Seismic Design Maps or Fig 22-14	T_L	8
Equation 11.4-4 - $2/3*S_{M1}$	S_{D1}	1.2767
Equation 11.4-2 - F_V*S_1 [1]	S_{M1}	1.9150

[1] - F_V as determined by Section 21.3

REFERENCE	NOTATION	VALUE
Fv (Table 11.4-2)[Used for General Spectrum]	F_v	1.7
Design Maps	S_s	2.162
Design Maps	S_1	0.766
Equation 11.4-1 - F_A*S_S	S_{MS}	2.162*
Equation 11.4-3 - $2/3*S_{MS}$	S_{DS}	1.441*
Design Maps	PGA	0.92
Table 11.8-1	F_{PGA}	1.1
Equation 11.8-1 - $F_{PGA}*PGA$	PGA_M	1.012*
Section 21.5.3	80% of PGA_M	0.810
Design Maps	C_{RS}	0.910
Design Maps	C_{R1}	0.897

REFERENCE	NOTATION	VALUE
$0.2*(S_{D1}/S_{DS})$	T_0	0.12*
S_{D1}/S_{DS}	T_S	0.602*
Equation 11.4-4 - $2/3*S_{M1}$	S_{D1}	0.8681*
Equation 11.4-2 - F_V*S_1	S_{M1}	1.3022*

RISK COEFFICIENT

Cr - At Perods <=0.2, Cr=C_{RS}	C_{RS}	0.910
Cr - At Periods >=1.0, Cr=C_{R1}	C_{R1}	0.897

Cr - At Periods between 0.2 and 1.0
use trendline formula to complete

Period	Cr
0.200	0.910
0.300	0.908
0.400	0.907
0.500	0.905
0.600	0.904
0.680	0.902
1.000	0.897

* **Code based design value**. See accompanying data for Site Specific Design values.

Mapped values from https://hazards.atcouncil.org/
https://www.seismicmaps.org/

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PROBABILISTIC SPECTRA[1]
2% in 50 year Exceedence

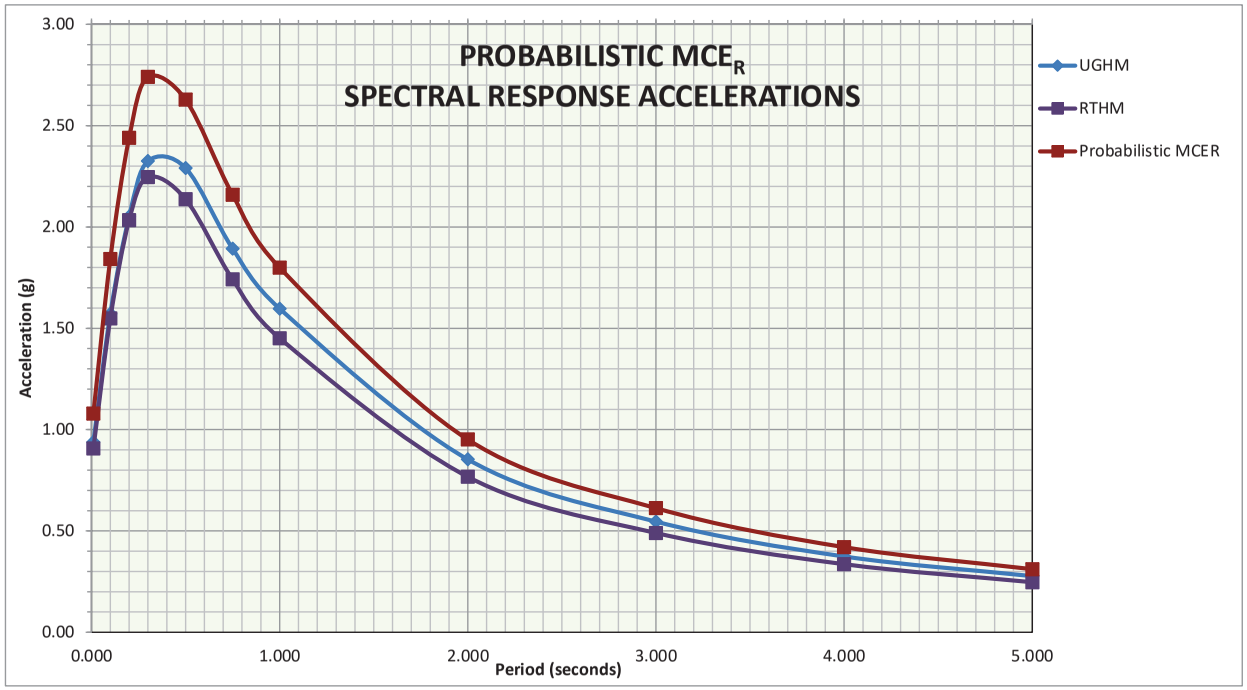
Project No: 544-24365

Period	UGHM	RTGM	Max Directional Scale Factor[2]	Probabilistic MCE
0.010	0.938	0.907	1.19	1.079
0.100	1.571	1.548	1.19	1.842
0.200	2.051	2.033	1.20	2.440
0.300	2.325	2.246	1.22	2.740
0.500	2.291	2.137	1.23	2.629
0.750	1.893	1.741	1.24	2.159
1.000	1.597	1.451	1.24	1.799
2.000	0.853	0.767	1.24	0.951
3.000	0.546	0.490	1.25	0.613
4.000	0.374	0.336	1.25	0.420
5.000	0.277	0.247	1.26	0.311

Probabilistic PGA: 0.938
Is Probabilistic $Sa_{(max)}$<1.2F_a? NO

[1] Data Sources:
https://earthquake.usgs.gov/hazards/interactive/
https://earthquake.usgs.gov/designmaps/rtgm/

[2] Shahi-Baker RotD100/RotD50 Factors (2014)



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DETERMINISTIC SPECTRUM

Largest Amplitudes of Ground Motions Considering All Sources Calculated using Weighted Mean of Attenuation Equations[1]

Controlling Source: Landers

Is Probabilistic $Sa_{(max)}$<1.2Fa? NO

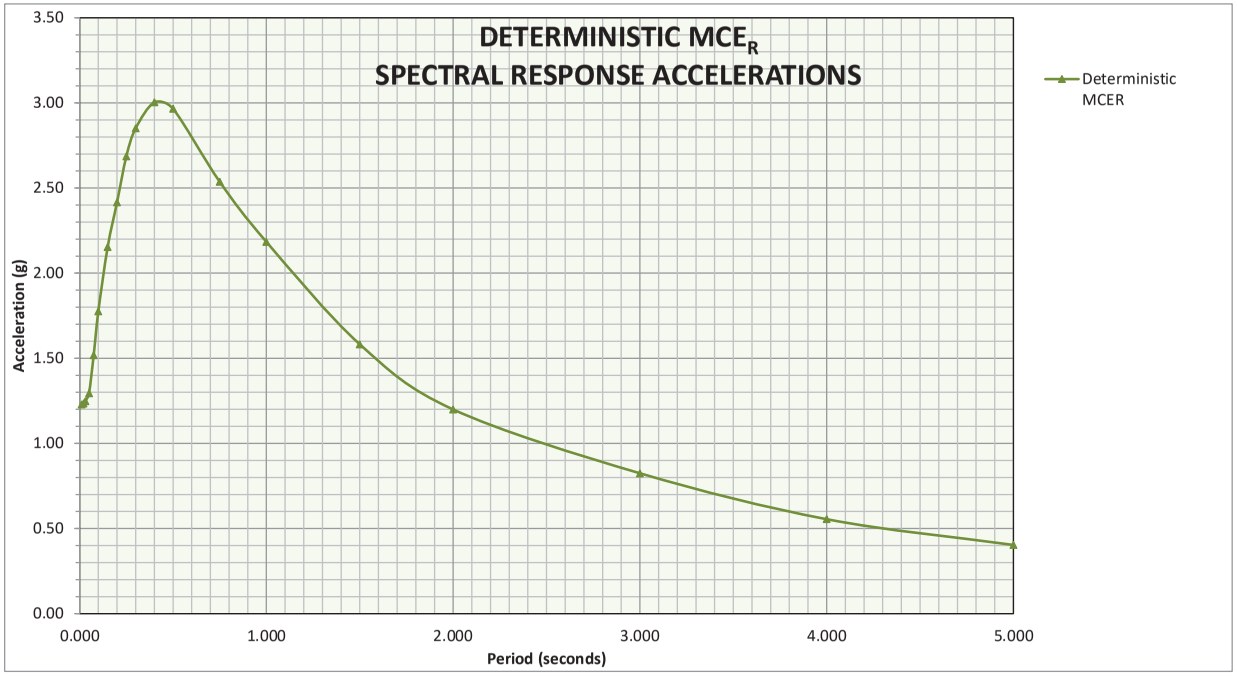
Period	Deterministic PSa Median + 1.σ for 5% Damping	Max Directional Scale Factor[2]	Deterministic MCE	Section 21.2.2 Scaling Factor Applied
0.010	1.032	1.19	1.228	1.228
0.020	1.037	1.19	1.234	1.234
0.030	1.049	1.19	1.248	1.248
0.050	1.088	1.19	1.295	1.295
0.075	1.276	1.19	1.518	1.518
0.100	1.493	1.19	1.776	1.776
0.150	1.795	1.20	2.154	2.154
0.200	2.013	1.20	2.416	2.416
0.250	2.220	1.21	2.686	2.686
0.300	2.337	1.22	2.851	2.851
0.400	2.442	1.23	3.003	3.003
0.500	2.411	1.23	2.965	2.965
0.750	2.046	1.24	2.537	2.537
1.000	1.761	1.24	2.184	2.184
1.500	1.276	1.24	1.582	1.582
2.000	0.967	1.24	1.199	1.199
3.000	0.660	1.25	0.825	0.825
4.000	0.444	1.25	0.555	0.555
5.000	0.320	1.26	0.403	0.403

Project No: 544-24365

Is Determinstic $Sa_{(max)}$<1.5*Fa?	NO
Section 21.2.2 Scaling Factor:	N/A
Deterministic PGA:	1.032
Is Deterministic PGA >=F_{PGA}*0.5?	YES

[1] NGAWest 2 GMPE worksheet and Uniform California Earthquake Rupture Forecast, Version 3 (UCERF3) - Time Dependent Model

[2] Shahi-Baker RotD100/RotD50 Factors (2014)



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SITE SPECIFIC SPECTRA

Period	Probabilistic MCE	Deterministic MCE	Site-Specific MCE	Design Response Spectrum (Sa)
0.010	1.079	1.228	1.079	0.720
0.100	1.842	1.776	1.776	1.184
0.200	2.440	2.416	2.416	1.610
0.300	2.740	2.851	2.740	1.827
0.500	2.629	2.965	2.629	1.752
0.750	2.159	2.537	2.159	1.439
1.000	1.799	2.184	1.799	1.199
2.000	0.951	1.199	0.951	0.634
3.000	0.613	0.825	0.613	0.408
4.000	0.420	0.555	0.420	0.280
5.000	0.311	0.403	0.311	0.207

ASCE 7-16: Section 21.4
Site Specific

	Calculated Value	Design Value
SDS:	1.644	1.644
SD1:	1.268	1.268
SMS:	2.466	2.466
SM1:	1.902	1.902
Site Specific PGAm:	0.938	0.938
Site Class:	D measured	

Seismic Design Category - Short* E
Seismic Design Category - 1s* E
* Risk Categories I, II, or III

Period	ASCE 7 SECTION 21.3 General Spectrum	80% General Response Spectrum
0.005	0.601	0.481
0.010	0.625	0.500
0.020	0.674	0.539
0.030	0.723	0.578
0.050	0.821	0.656
0.060	0.869	0.696
0.075	0.943	0.754
0.090	1.016	0.813
0.100	1.065	0.852
0.110	1.114	0.891
0.120	1.162	0.930
0.136	1.240	0.992
0.150	1.309	1.047
0.160	1.358	1.086
0.170	1.406	1.125
0.180	1.441	1.153
0.200	1.441	1.153
0.250	1.441	1.153
0.300	1.441	1.153
0.400	1.441	1.153
0.500	1.441	1.153
0.600	1.441	1.153
0.640	1.441	1.153
0.750	1.441	1.153
0.850	1.441	1.153
0.900	1.419	1.135
0.930	1.373	1.098
1.000	1.277	1.021
1.500	0.851	0.681
2.000	0.638	0.511
3.000	0.426	0.340
4.000	0.319	0.255
5.000	0.255	0.204

Project No: 544-24365

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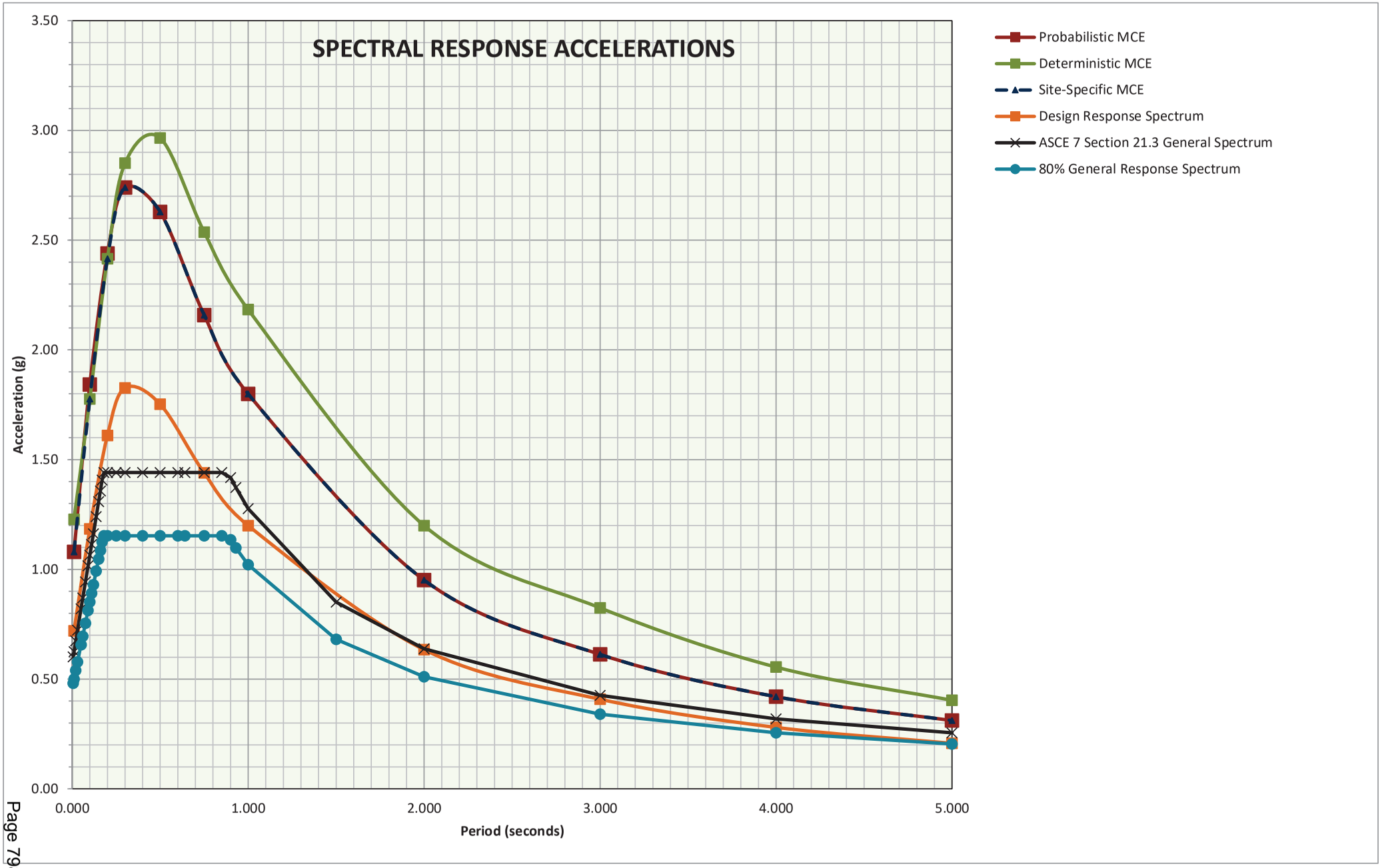
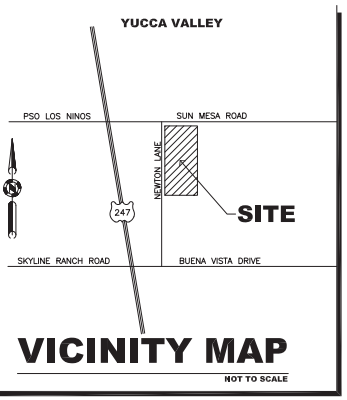

SPECTRAL RESPONSE ACCELERATIONS
Acceleration (g)
3.50
3.00
2.50
2.00
1.50
1.00
0.50
0.00
0.000
1.000
2.000
3.000
4.000
5.000
Period (seconds)
Probabilistic MCE
Deterministic MCE
Site-Specific MCE
Design Response Spectrum
ASCE 7 Section 21.3 General Spectrum
80% General Response Spectrum

APPENDIX D

SITE PLAN



VICINITY MAP

NOT TO SCALE

LEGEND:

1. STANDARD 9 FT X 19 FT. PARKING STALL W/ 6" WIDE x 48" LONG WHEEL STOP
2. ACCESSIBLE PARKING STALL 2% MAX. SLOPE
3. ACCESS AISLE, 2% SLOPE AND CROSS SLOPE
4. DECOMPOSED GRANITE
5. 400 S.F. MANAGERS UNIT/LIVING QUARTERS
6. ROLLING SECURITY GATES
7. ACCESSIBLE ROUTE, MIN 4' WIDE NOT TO EXCEED 5% SLOPE, 2% CROSS SLOPE
8. TRASH ENCLOSURE PER CITY STANDARDS
9. LIGHT STANDARD, TYP. AS SHOWN - PER CITY STANDARDS
10. WALL PACK, TYP. AS SHOWN
11. 8 FT MAX. HT. CMU WALL
12. CONC. CURB AND GUTTER - PER CITY STANDARDS
13. 6" DIA. CONC. FILLED BOLLARDS AS SHOWN, EMBEDDED MIN. 36" INTO GROUND
14. CONC. PAD AT NEW ELECTRICAL SERVICE LOCATION TBD
15. CONC. CURB
16. W.I. FENCE (TBD), 8 FT. MAX. HT.
17. W.I. FENCE (TBD), 10 FT. MAX. HT.
18. DECORATIVE ROCK LANDSCAPING: LARGE RIVERROCK W/ RANDOM BOULDERS
19. RETENTION BASIN
20. 20 FT WIDE FIRE LANE
21. 10FT X 20 FT LOADING ZONE, TYP. AS SHOWN
22. LEACH FIELD, SEE CIVIL DRAWINGS

9.14.060: MINI-/SELF-STORAGE FACILITIES:

A. General: The only commercial activities permitted on the site of a self-service storage facility shall be rental of storage bays and pick up and deposit of goods and/or property in dead storage. Storage bays shall not be used to: manufacture, fabricate or process goods; service or repair vehicles, boats, small engines or electrical equipment, or to conduct similar repair activities; conduct garage sales or retail sales of any kind; or conduct any other commercial or industrial activity on the site.

B. Security Quarters Permitted: Residential quarters for security purposes may be established on the site.

C. Bays Have No Legal Address: Individual storage bays or private postal boxes within a self-service storage facility shall not be considered a premises for the purpose of assigning a legal address in order to obtain an occupational license or other governmental permit or license to do business.

D. Outside Storage:

1. Except as provided in this section, all property stored on site shall be entirely within enclosed buildings.
2. Open storage of private recreational vehicles and dry storage of recreational boats for personal use shall be permitted within a self-service storage facility provided that the following is met:
   a. Such storage shall take place only within a designated area. The area so designated shall be clearly delineated upon the site plan accompanying the application;
   b. The open storage area shall not exceed twenty five percent (25%) of the buildable area of the site;
   c. The open storage area shall be entirely screened from view from adjacent residential areas and all street rights of way by a solid building wall or a masonry wall with a minimum height of eight feet (8');
   d. Vehicles shall not be stored within the area set aside for minimum building setbacks; and
   e. No vehicle maintenance, washing or repair shall be permitted on site. Recreational boats stored on the site shall be placed and maintained upon wheeled trailers. No dry stacking of boats shall be permitted on site.

E. Minimum Lot Size: Notwithstanding any other provision of this code the minimum lot size for a self-storage facility shall be one acre.

F. Separation Between Storage Buildings: If separate buildings are constructed, there shall be a minimum ten foot (10') setback between individual buildings within the facility.

G. Maximum Bay Size: The maximum size of a storage bay shall be five hundred (500) square feet.

H. Maximum Building Height: With the exception of a structure used as a security quarters, the maximum height of a self-service storage facility shall be one story. The height of the building shall not exceed twenty feet (20'), except for any architectural features located along the street entrance to the facility. In addition, a parapet wall shall be constructed to screen roof mounted air conditioning and other equipment, if any. The combined height of the building and the parapet wall shall not exceed twenty five feet (25').

I. Parking Requirements: See , "Parking And Loading Regulations", of this title for ministorage parking requirements.

J. Miscellaneous Requirements:

1. Outdoor Lighting: All outdoor lighting shall meet the requirements of title 8,, "Outdoor Lighting", of this code.
2. Loudspeakers: Exterior loudspeakers or paging equipment shall not be permitted on the site.
3. Bay Doors: Storage bay doors shall not face any abutting property which is residentially zoned, nor shall they be visible from any adjacent residential property or any street right of way.
4. Barbed Wire: Barbed or similar wire may be used for security purposes, but it shall not be visible from any adjacent residential property or any street right of way.
5. Architectural Treatment: The exterior facades of all structures shall receive uniform architectural treatment, including stucco and painting of surfaces. All structures adjacent to properties designated with a residential land use shall have a pitched roof or other treatment comparable to the adjacent residential development. (Ord. 253, 12-16-2014)

DEVELOPMENT STATISTICS
FOR:
BILLINGS MINI STORAGE
S.E.C. NEWTON LANE AND SUN MESA
YUCCA VALLEY, CA

LEGAL DESCRIPTION:	TR 8749, MB 120/50-64 SEC. 13 T1N, R5E., S,B,B,&M.
APN	0597-111-67-0000
TOTAL SITE AREA:	189,050 SQ. FT. 4.34 ACRES
ADDRESS:	S.E.C. NEWTON AND SUN MESA YUCCA VALLEY CA
ZONING: GPLU	INDUSTRIAL INDUSTRIAL
PROPOSED LAND USE	MINISTORAGE

SCOPE OF WORK: PROPOSED MINISTORAGE FACILITY WITH ONE CARETAKERS UNIT. ALL STORAGE TO BE ENCLOSED. NO OPEN STORAGE IS PROPOSED.

PER MUNICODE SEC. 9.10 INDUSTRIAL DISTRICTS

SETBACKS:		MAX. FENCE HT
FRONT:	15'-0"	8'-0" MAX.
REAR:	0'	10'-0" MAX.
SIDE:	0'	10'-0" MAX.
STREET SIDE:	15'-0"	10'-0" MAX.

PER MUNICODE SEC. 9.14.060 MINI/SELF-STORAGE FACILITIES

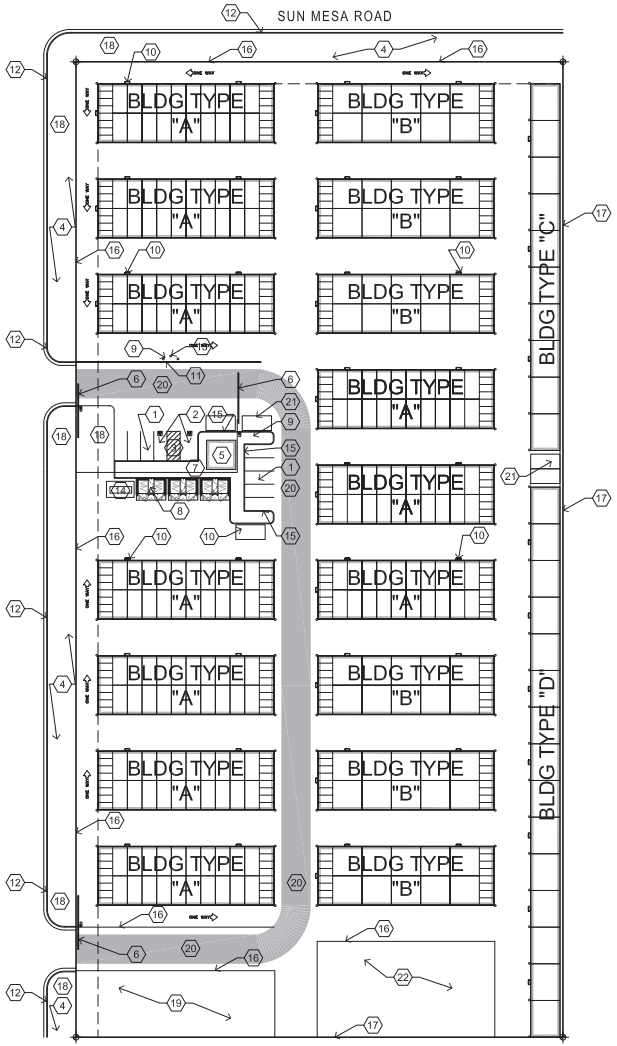
ALLOWABLE BUILDING HEIGHT:	20'-0" ONE STORY
AREAS:	400 S.F ONE STORY OFFICE/MANAGER UNIT 89,700 S.F STORAGE UNIT TOTAL
FAR: 70% MAX.	89,700 s.f. /220,786 s.f. = 0.406 40.6 % < 70% .: FAR o.k.

TYPES:	UNIT COUNT:						
	5X10 50 S.F.	10x20 200 S.F.	20x20 400 S.F.	25x20 500 S.F.	TOTAL S.F. PER BLDG.	NO. BLDG. TYPES	TOTAL S.F. PER BLDG. TYPE
TYPE "A"	16	20	-	-	4,800 S.F.	10	48,000 S.F.
TYPE "B"	16	-	10	-	4,800 S.F.	6	28,800 S.F.
TYPE "C"	-	-	-	10	5,000 S.F.	1	5,000 S.F.
TYPE "D"	-	-	-	15	7,500 S.F.	1	7,500 S.F.
TYPE "E"	-	-	1	-	400 S.F.	1	400 S.F.
TOTAL UNITS	256	200	60 MGR.UNIT NOT INCL.	25		TOTAL S.F.	89,700 S.F.

PARKING REQUIREMENTS:

PER MUNICODE SEC. 9.33.040-C, TABLE 3-7 MINI/SELF-STORAGE FACILITIES::	**REQUIRED:**	**PROVIDED:**
STANDARD 9X19 PARKING STALLS:		
6 SPACES + 2 CARETAKERS	8	8
ACCESSIBLE STALLS:	1 reqd	
STANDARD:	1	1
VAN:	1	1
		10
LOADING SPACES: ONE PER PER 20,000 S.F. 10 FT X 20 FT:	5	5
TOTAL PARKING ON SITE:	8 REQUIRED	10 PROVIDED

NOTE: ALL PARKING STALLS SHALL BE 9'-0" x 19'-0" MIN., BACKUP=1 WAY ISLES SHALL BE MIN. 12'-0" WIDE, PER CITY STANDARDS. BACKUP=2 WAY ISLES SHALL BE MIN. 25'-0" WIDE, PER CITY STANDARDS.



OVERALL SITE PLAN
SCALE: 1" = 40'-0"

NORTH

IF THESE DRAWINGS ARE SMALLER THAN 36" x 24" THEY HAVE BEEN REDUCED.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS.

THESE DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE REMAIN THE PROPERTY OF DRP ENTERPRISES LLC AND SHALL NOT BE USED FOR ANY OTHER PURPOSE OTHER THAN THOSE FOR WHICH THEY HAVE BEEN SUPPLIED OR PREPARED.

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No.	Revision / Issue	Drawn by	Checked by	Date
	PREL/ENG		DRP/JS	08-03-22

DRP Enterprises

Engineer

Project Owner

ROB BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA

Project

PROPOSED MINI STORAGE
S.E. CORNER
NEWTON LANE AND SUN MESA ROAD

SCALE

1" = 40'-0"

Project Number & Sheet Number

T-1.0

APPENDIX F

PHASE I ESA

Phase I Environmental Site Assessment

Yucca Valley Property

Southeast Corner of Sun Mesa Drive and Newton Lane
Yucca Valley, California
APN: 0597-111-67-0000

DRP Enterprises, LLC
P.O. Box 4428 | Palm Springs, California

October 31, 2024 | Project No. 109798002

Geotechnical | Environmental | Construction Inspection & Testing | Forensic Engineering & Expert Witness

Geophysics | Engineering Geology | Laboratory Testing | Industrial Hygiene | Occupational Safety | Air Quality | GIS

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

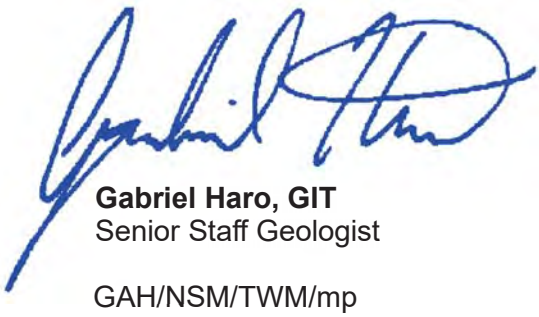
Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

35+ YEARS

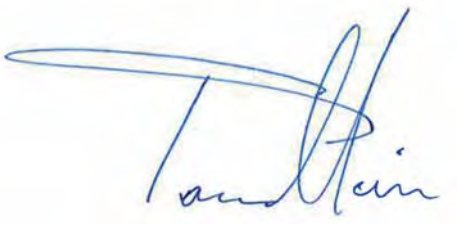
Phase I Environmental Site Assessment
Yucca Valley Property
Southeast Corner of Sun Mesa Drive and Newton Lane
Yucca Valley, California 92284
APN: 0597-111-67-0000

Mr. Daniel Patneaude
DRP Enterprises, LLC
P.O. Box 4428 | Palm Springs, California 92263

October 31, 2024 | Project No. 109798002



Gabriel Haro, GIT
Senior Staff Geologist



Travis W. Meier
Principal Environmental Scientist

GAH/NSM/TWM/mp

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F – Vapor Encroachment Screening Matrix

G – Qualification of the Environmental Professionals

1 INTRODUCTION

Ninyo & Moore was retained by DRP Enterprises, LLC (herein referred to as the client) to perform a Phase I Environmental Site Assessment (ESA) of the property located at the southeast corner of Sun Mesa Drive and Newton Lane in Yucca Valley, California and identified by the County of San Bernardino Accessor's Parcel Number (APN) 0597-111-67-0000 (hereinafter referred to as the site). The following sections discuss the purpose, the involved parties, the scope of services, and the limitations and exceptions associated with this Phase I ESA.

1.1 Purpose

The objective of this ESA is to identify, to the extent feasible pursuant to the process described in ASTM International (ASTM) Standard Practice E1527, recognized environmental conditions (RECs), which are defined by ASTM as "(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment." Ninyo & Moore performed this ESA in conformance with the scope and limitations of ASTM E1527-21.

Identification of RECs fall into the following three categories: existing RECs (as defined above); Historical RECs (HRECs); or Controlled RECs (CRECs). HRECs and CRECs are defined as follows:

- **HREC** – An HREC is defined as "a previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). An example of an HREC may be a former gas station where a release of gasoline had occurred, but the site was cleaned up to an unrestricted land use standard.

- **CREC** – A CREC is defined as a "recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations). An example of a CREC could be a former gas station where a release of gasoline has been cleaned up to a commercial use standard, but does not meet unrestricted residential cleanup criteria.

A *de minimis* condition is defined by ASTM as "a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition."

1.2 Scope of Services

Ninyo & Moore's scope of services for this Phase I ESA included the activities listed below.

- Reviewed physical setting and background information.
- Performed a site reconnaissance.
- Reviewed federal, state, tribal, and local regulatory agency databases for the site and for properties located within a specified radius of the site.
- Reviewed reasonably ascertainable local regulatory agency files for the site, as applicable.
- Reviewed historical information for the site, such as historical aerial photographs, historical topographic maps, reverse street directories, Sanborn fire insurance maps, and building records, as available.
- Reviewed user-provided information, as available.
- Interviewed the property owner representative and tenant regarding the environmental status of the site.
- Performed a preliminary vapor encroachment screen to evaluate the potential for vapor encroachment conditions.
- Prepared this Phase I ESA report, summarizing findings and providing opinions and conclusions regarding RECs at the site.

1.3 Significant Assumptions

Ninyo & Moore assumes that the information provided by the third-party environmental database vendor, regulatory agencies, and interviewees and that was utilized for this report provided adequate and accurate information. No other significant assumptions were made during the preparation of this report.

1.4 Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard of care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore

should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

The findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site could change with time as a result of natural processes or human activities at the subject site or nearby properties. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control. Ninyo & Moore cannot warrant or guarantee that not finding indicators of any particular hazardous substance means that this particular hazardous substance or any other hazardous substances do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5 Special Terms and Conditions

This study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, unless otherwise indicated in this report, this Phase I ESA does not include analysis of the following, which is not intended to be all-inclusive: asbestos-containing materials (unrelated to releases into the environment), biological agents, cultural and historic resources, ecological resources, emerging contaminants, endangered species, health and safety, high voltage power lines, indoor air quality (unrelated to releases of hazardous substances or petroleum products into the environment), industrial hygiene, lead-based paint (unrelated to releases into the environment), lead in drinking water, methane gas, mold, polychlorinated biphenyl (PCB)-containing building materials, radon, regulatory compliance, or wetlands.

1.6 User Reliance

This report may be relied upon by, and is intended exclusively for, the client and its assigns. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the above-referenced client is undertaken at said parties' sole risk.

1.7 Involved Parties

Mr. Gabriel Haro, Senior Staff Geologist, performed regulatory and historical research and conducted the site reconnaissance on October 14, 2024. Mr. Travis Meier, Principal Environmental Scientist, performed project oversight and quality review.

2 SITE DESCRIPTION

The following table provides a general description of the site. Photographs taken during the site reconnaissance are provided in Appendix A.

Table 1 – General Site Setting

General Site Setting	Description
Location	The site is located at the southeast corner of Sun Mesa Drive and Newton Lane in Yucca Valley, California (Figure 1).
Assessor Parcel No. (APN)	0597-111-67-0000 (County of San Bernardino)
Property Owner	Robert Billings (as reported by Environmental Data Resources)
Size (approximate)	4.5 acres
Structures / Site Use / Occupants	The site is undeveloped.
Roads	Roads are not present on the site. The site is accessible from Sun Mesa Drive to the north and Newton Lane to the west.
Heating and Cooling Systems	Heating and cooling systems are not present at the site.
Electricity Provider	Southern California Edison (vicinity)
Natural Gas Provider	Southern California Gas (vicinity)
Potable Water and Sewer Disposal Provider	Hi Desert Water District (vicinity)
Site Vicinity Description	The site vicinity is primarily comprised of undeveloped land, commercial properties, and industrial properties.

3 USER-PROVIDED INFORMATION

Mr. Daniel Patneaude, Civil Engineer and owner of DRP Enterprises LLC, completed the User Questionnaire on October 16, 2024. The following table summarizes information provided by Mr. Patneaude. A copy of the questionnaire is provided in Appendix B.

Table 2 – Summary of User-Provided Information

User's Responsibilities	User's Responses
Title Records	Title records were not provided by the User.
Environmental Liens or Activity and Use Limitations (AULs)	None reported
Specialized Knowledge	None reported
Commonly Known or Reasonably Ascertainable Information	Mr. Patneaude stated that the site has remained undeveloped (i.e., a vacant lot).
Valuation Reduction for Environmental Issues	None
Reason for Performing Phase I ESA	Mr. Patneaude stated that the Phase I ESA is required by the Town of Yucca Valley to obtain a new development permit.

Mr. Patneaude also provided a conditional use permit application, a biological resources assessment, proposed site plans and drawings, a preliminary grading plan, and a topographic survey for the site. Environmental concerns were not identified in the provided documents, which have not been appended to this report.

4 RECORDS REVIEW

The following sections summarize records reviewed for the site.

4.1 Standard Environmental Record Source - Environmental Databases

A computerized, environmental information database search was performed by Environmental Data Resources, Inc. (EDR) on September 24, 2024. The search included federal, state, tribal, and local databases. A summary of the environmental databases searched, their corresponding search radii, and number of noted properties of potential environmental concern, is presented in the EDR report (Appendix C). The review was conducted to evaluate whether the site or properties within the site vicinity have been documented as having experienced significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects.

4.1.1 Geocoded (Mapped) Listings

The site was not listed within the environmental database report. Off-site properties within 1 mile of the site appeared on various regulatory agency databases. The following table lists ASTM standard environmental databases that were searched.

Table 3 – ASTM Standard Environmental Databases

Database Name	Search Radius (mile)	Number of Listings
Federal Databases		
NPL (National Priority List)	1	0
Proposed NPL	1	0
NPL LIENS (Federal Superfund Liens)	site	0
Delisted NPL	1	0
FEDERAL FACILITY (Federal Facility Site Information listing)	1	0
SEMS (Superfund Enterprise Management System; formerly Comprehensive Environmental Response Compensation and Liability Information System)	0.5	0
SEMS-ARCHIVE (Superfund Enterprise Management System Archive)	0.5	0
CORRACTS (facilities subject to Corrective action under RCRA)	1	0
RCRA-TSDF (hazardous waste treatment, storage, or disposal facilities)	0.5	0
RCRA-LQG (large quantity generator)	0.25	0
RCRA-SQG (small quantity generator)	0.25	2
RCRA-VSQG (very small quantity generator)	0.25	0
US ENGINEERING CONTROL (EC)	0.5	0
US INSTITUTIONAL CONTROL (IC)	0.5	0
ERNS (Emergency Notification System)	site	0
State/Tribal Databases		
RESPONSE (State Response Sites, State- and Tribal- equivalent NPL)	1	0
ENVIROSTOR (The DTSC's Site Mitigation and Brownfields Reuse Program; CERCLIS-equivalent)	1	0
SWF/LF (Solid Waste Information System)	0.5	0
San Diego County Site Assessment and Mitigation (SAM)	0.5	0
LUST (GeoTracker's Leaking Underground Fuel Tank Report)	0.5	0

Table 3 – ASTM Standard Environmental Databases		
Database Name	**Search Radius (mile)**	**Number of Listings**
SLIC (Spills, Leaks, Investigation and Cleanup database by the California Regional Water Quality Control Board [RWQCB])	0.5	0
UST (registered underground storage tanks [USTs])	0.25	0
AST (registered aboveground storage tanks [ASTs])	0.25	2
FEMA UST (Underground Storage Tank Listing)	0.25	0
VCP (Voluntary Cleanup Program Properties)	0.5	0

Off-site properties/facilities listed in the database report were evaluated as to their potential to impact soil and/or groundwater at the site. To supplement the information in the EDR report, regulatory agency files and environmental databases were reviewed, as appropriate. Information from the EDR database report and supplemental sources is included in the facilities of potential concern summaries below. Supporting documentation is provided in Appendix D. The following properties/facilities were interpreted to represent a potential environmental concern to the site, based on their proximity to the site, the nature of the database on which they are listed, and/or the assumed direction of groundwater flow in the site vicinity (east).

Table 4 – Off-Site Facilities of Potential Concern			
Facility Name / Address	**Distance/ Direction from Site**	**Database**	**Summary**
Full-Circle Swivels, Inc. 4831 Newton Lane	Adjoining south, cross-gradient	CERS CERS HAZ-WASTE CHIMRS E MANIFEST HAZNET HWTS RCRA-NONGEN SAN BERN CUPA	The property is listed in the SAN BERN CUPA database as an active small quantity generator of hazardous waste and as a handler of hazardous materials with the San Bernardino County Fire Protection District (SBCFPD). According to records provided by SBCFPD, the facility has maintained permits to handle hazardous materials and generate hazardous waste since 2004. In 2011, two anonymous complaints were received by the SBCFPD alleging that the facility had released machine coolant fluids onto the ground; however, the SBCFPD confirmed with the owner that it was actually rinse water generated from cleaning mop buckets. The SBCFPD recommended contacting the stormwater regulatory agency to discuss applicable stormwater compliance requirements. The investigation prompted by the anonymous complaint was closed thereafter. According to the CERS database, inspection violations were issued during select years from 2011 to 2021 for an incomplete business plan, improper inspection frequency, improper materials labelling, and improper materials storage. In each instance the violation was corrected and the facility returned to compliance. Based on the absence of a significant release, ongoing regulatory oversight, and location relative to the site, this listing is not considered a REC.

Table 4 – Off-Site Facilities of Potential Concern			
Facility Name / Address	**Distance/ Direction from Site**	**Database**	**Summary**
Vista Auto Truck / Craftsman's RV Truck & Auto Repair / Mesa Garage 4828 Newton Lane	Adjoining, southwest, cross-gradient	HAZNET NWTS	The property is listed in the HWTS database as a general automotive repair facility. According to the HAZNET database, organic liquid mixtures, aqueous solutions, and oil-containing waste were disposed from 1991 to 2002. Based on the absence of a reported release, this listing is not considered a REC.
AmeriGas Propane 4785 Old Woman Springs Road	548 feet west, upgradient	AST CERS EMI HAZNET HWTS SAN BERN CUPA	The property is listed in the SAN BERN CUPA database as an active handler of hazardous materials with the SBCFPD. According to the CERS database, routine compliance inspections were completed from 2013 to 2022. Violations were issued during select years for failure to complete/submit a business plan and maintain an active handlers permit with the SBCFPD. In each instance, the violation was corrected and the facility returned to compliance. The property is also listed in the AST database; however, tank capacities and contents were not provided in the listing. Based on the absence of a significant release and ongoing regulatory oversight, this listing is not considered a REC.
Burrtec Yucca Valley / Hi Desert Disposal 4878 Newton Lane	587 feet south-southwest, cross-gradient	AST CERS CERS HAZ-WASTE CIWQS E MANIFEST ECHO FINDS HAZNET HWTS PFAS ECHO NPDES RCRA-NONGEN RCRA-SQG SAN BERN CUPA	The property is listed in the RCRA-SQG database as a small quantity generator of hazardous waste. According to the HAZNET database, wastes disposed during 1995 to 2021 included various quantities of tank bottom waste aqueous/alkaline solutions, solvent solutions, organic liquids/solids, waste oil, and oil/water separation sludge. The property is also listed in the AST database associated with a 2,240-gallon AST; however, tank contents were not provided in the listing. The property is also listed in the NPDES and CIWQS databases associated with industrial stormwater construction permits previously issued to the property owner. Based on the absence of a significant release and ongoing regulatory oversight, this listing is not considered a REC. The property name (not associated with an address) is listed on the PFAS ECHO database. Additional information was not available but may be related to the past use as a waste-related site. Based on the absence of a significant release and estimated depth to groundwater, this listing is not considered a REC.
Bill's Diesel Truck & Equipment 4695 Old Woman Springs Road	596 feet northwest, cross-gradient	CERS CERS HAZ-WASTE HWTS RCRA-SQG SAN BERN CUPA	The property is listed in SAN BERN CUPA database as an active small quantity generator of hazardous waste and as a handle of hazardous materials with the SBCFPD. According to the CERS database, routine compliance inspections were completed from 2014 to 2024. Violations were issued during select years for failure to annually certify the business plan, improperly labeled hazardous waste, and incomplete hazardous material inventory. In each instance, the violation was corrected and the facility returned to compliance. Based on the absence of a significant release and ongoing regulatory oversight, this listing is not considered a REC.

Notes:
- Distances and direction provided by EDR
- A complete description of each database is provided in the EDR Report (Appendix C).

It is our opinion that there is a low likelihood that the remaining listings for off-site properties appearing in the database report represent a REC to the site at the current time. This opinion is based on one or more of the following factors:

- The nature of the database(s) on which the property appears, and/or because the property did not appear on a database that reports unauthorized releases of hazardous substances;
- Reported regulatory agency status (e.g., case closed);
- Reported nature of the case (e.g., soil contamination only);
- Reported distance of the property from the site; and/or
- Location of the property in relation to the site with respect to topography or expected groundwater flow direction (east).

4.1.2 Orphan (Unmapped) Listings

This portion of the regulatory database report includes properties for which regulatory agencies did not report sufficient address information to be plotted by EDR. Orphan listings were not reported by EDR.

4.2 Additional Environmental Record Sources

According to the ASTM Standard, “if the property or any of the adjoining properties is identified on one or more of the standard environmental record sources, pertinent regulatory files and/or records associated with the listing should be reviewed.” Regulatory agency files for properties of potential concern in the immediate site vicinity were reviewed and summarized in Table 4. The review of regulatory agency records for the site is discussed in the following sections. Regulatory records for the site are provided in Appendix D.

4.2.1 San Bernardino County Fire Protection District

According to Ms. Christina Rivera of the SBCFD on October 9, 2024 via email, no records were found for the site.

4.2.2 South Coast Air Quality Management District

According to the South Coast Air Quality Management District (SCAQMD), a records search was unable to be completed because there is not a physical address associated with the site. The SCAQMD reported that they are unable to search for records by APN.

4.2.3 San Bernardino County Environmental Health Services

According to Ms. Jessica Carlson of San Bernardino County Environmental Health Services (EHS) on October 9, 2024 via Next Request, no records were found for the site.

4.2.4 Regional Water Quality Control Board, Colorado River Basin Region

According to Ms. Helen Gout of the RWQCB on October 21, 2024 via email, no records were found for the site.

4.2.5 Online Regulatory Databases

Online regulatory databases were reviewed by Ninyo & Moore to supplement the environmental database search conducted by EDR. The following is a summary of pertinent information.

Table 5 – Online Regulatory Databases

Online Database/Website	Findings
DTSC EnviroStor	Neither the site nor properties within 1,000 feet are listed.
SWRCB GeoTracker	Neither the site nor properties within 1,000 feet are listed.
California Department of Resources Recycling and Recovery (CalRecycle) Solid Waste Information System	Neither the site nor properties within 1,000 feet are listed.
United States Pipeline and Hazardous Materials Safety Administration, National Pipeline Mapping System Map Viewer	Pipelines are not depicted on or adjoining the site.
US Army Corps of Engineers, Formerly Used Defense Sites (FUDS), Geographic Information System	FUDS listings are not located within 1,000 feet of the site.

4.3 Physical Setting

The following table summarizes topographic, geologic, and hydrogeologic conditions in the vicinity of the site, based upon the referenced documents review and/or our visual reconnaissance of the site.

Table 6 – Physical Setting

Physical Settings	Reference	Summary
Topography	A	The elevation at the site approximately ranges from 3,015 to 3,030 feet above mean sea level (MSL). The topography at the site slopes to the southeast while topography in the vicinity generally slopes to the east.
Site Geology	B	The site is underlain by older alluvium and gravel surficial sediments (Pleistocene). The older alluvium deposits consist of poorly bedded to non-bedded, granitic cobble-pebble gravel and sand. The older gravel deposits consist of poorly bedded granitic cobble-gravel and coarse sand.
Surface Water	D, E	Surface water was not observed during the site reconnaissance. Permanent surface waters are not located within one mile of the site. Intermittent creeks are located within one mile of the site to the east and west.

Table 6 – Physical Setting		
Physical Settings	**Reference**	**Summary**
Groundwater	C	The site is located in the Joshua Tree Hydrological Unit (HU) within the Lucerne Valley Planning Area. Groundwater within the Joshua Tree HU has existing beneficial uses for municipal and industrial supply. The depth to groundwater, gradient and flow direction at the site currently are not known, but based on our experience in the area, the depth to groundwater is estimated to be greater than 200 feet below ground surface (bgs). Groundwater flow is expected to follow topography and flow to the east. The groundwater flow direction may vary due to hydrogeologic properties, such as soil porosity and permeability, groundwater extraction, recharge by irrigation and rainfall, and other factors.

References:
A = United States Geological Survey (USGS), Yucca Valley North, California, 7.5-minute quadrangle map (USGS, 2021)
B = Geologic Map of the Joshua Tree & Twentynine Palms 15 Minute Quadrangles (Dibblee & Minch, 2008)
C = RWQCB Water Quality Control Plan for the Colorado River Basin (RWQCB, 2019)
D = U.S. Fish and Wildlife Service Wetlands Mapper (USFWS, 2024)
E = Site Reconnaissance

4.4 Site Historical Use Information

Ninyo & Moore conducted a historical record search for the site. This included a review of city directories, historical fire insurance maps, historical aerial photographs, topographic maps, and building records, as available. The following sections summarize information obtained from the historical sources utilized for this assessment.

4.4.1 City Directories

Available historical reverse street directories from 1976 through 2017 were provided by EDR. The site is not associated with a physical address and was therefore not listed. The addresses in the surrounding area appear to be associated with commercial and industrial properties (discussed in Section 4.1.1), as well as potentially several residential properties. The EDR City Directory Report is provided in Appendix E.

4.4.2 Sanborn® Fire Insurance Maps

Sanborn® fire insurance maps were requested from EDR; however, according to EDR's Certified Sanborn Map Report, there is no map coverage in the site vicinity. EDR's Certified Map Report is provided in Appendix E.

4.4.3 Historical Aerial Photographs and Topographic Maps

Historical aerial photographs and topographic maps were provided by EDR for select years from 1953 through 2021. Additionally, recent aerial photographs were reviewed online using Google Earth. A listing of the sources reviewed and summary of notable observations from

the photograph review are provided in the table below. EDR-provided photographs and maps are included in Appendix E.

Table 7 – Aerial Photographs and Topographic Map Summary

Date	Source	Summary
1953 1955	A, B	The site, adjoining properties, and vicinity are undeveloped. Old Woman Springs Road and Buena Vista Drive are depicted to the west and south of the site, respectively, as dirt roads. A structure is present to the northwest of the site.
1970 1972 1975 1979 1983	A, B	The site appears similar to the previous photograph and map. The southeast-adjoining property is developed with a residential property and the remaining adjoining properties appear undeveloped. West-adjoining Newton Lane is depicted as a dirt road. Residential properties are depicted in the general site vicinity. By 1983, commercial/industrial properties are also depicted within the general site vicinity.
1989	A, B	The site appears similar to the previous photographs and maps. The southwest-adjoining property appears to be under development and the north-adjoining properties appear to be cleared of vegetation. Although difficult to discern, the northwest- and northeast-adjoining properties appear to be used for vehicle or material storage and the north-adjoining property is undeveloped. The northern west-adjoining property is vacant and the remaining adjoining properties are undeveloped.
1995 2005	A	The site appears similar to the previous photographs. The south- and southwest-adjoining properties are developed with commercial/industrial properties. The northeast-adjoining property is undeveloped and the remaining adjoining properties appear similar to the previous photograph. By 2005, the northwest-adjoining property is undeveloped and rows of stored vehicles are visible on the southwest-adjoining property.
2009 2012 2015 2016 2018 2020 2021 2023	A, B, C	The site appears similar to the previous photographs and maps. The northern west-adjoining property appears to be used for equipment and material storage with stockpiles of soil and other materials visible from 2009 to 2023. The remaining adjoining properties appear similar to the previous photograph. By 2023, the southern west-adjoining property appears to be used for trailer/equipment storage but was observed to be vacant during the site reconnaissance (see Section 5). The site, adjoining properties, and site vicinity are developed similar to today.
Sources: A = EDR Aerial Photographs B = EDR Topographic Maps C = Google Earth		

4.4.4 Town of Yucca Valley Building and Safety Department

According to Ms. Sandy Heller of the Town of Yucca Valley on October 16, 2024 via Next Request, no records were found for the site.

4.5 Previous Reports

Ninyo & Moore was not provided copies of prior reports completed for the site.

4.6 Adjoining Property History

The adjoining properties appeared to remain undeveloped until approximately 1970. A residential property was developed southeast of the site around 1970. From the 1980s to 1990s, commercial/industrial properties were developed south and southwest of the site. From the 1980s

to present, the north- and west-adjoining properties were intermittently used for materials/vehicle storage but were otherwise vacant. The east-adjoining property has remained undeveloped.

5 SITE RECONNAISSANCE

The objective of the site reconnaissance was to obtain information indicating the potential for RECs in connection with the site. Mr. Gabriel Haro conducted the reconnaissance on October 15, 2024. A site plan is provided as Figure 2 and photographic documentation is provided in Appendix A.

5.1 Methodology and Limiting Conditions

The site reconnaissance consisted of walking the site and along its perimeter (for viewing of adjoining/nearby properties). Limiting conditions were generally not encountered during the site reconnaissance.

5.2 General Site Setting

At the time of the site reconnaissance, the site was undeveloped. The site was primarily vegetated with dry brush and Joshua Trees. Minor surface debris was observed at the site. Waste onsite included six bags of green waste along the western site boundary and miscellaneous metal, wood, paper, and plastic debris across the site. These materials would be considered a *de minimis* condition.

Several shallow excavations (approximately 1-2 feet deep) were observed near the central portion of the site. These appear to be the locations where Joshua Trees had been relocated/replanted.

Topography at the site slopes generally to the southeast. Surface drainage was expected to either percolate into the soil or flow southeast and offsite.

5.3 Adjoining Property Observations

Adjoining properties were observed from the site and from accessible vantage points along the site boundary during the site reconnaissance. The properties adjoining the site are as follows and as depicted on Figure 2:

- **North**: Sun Mesa Drive followed by undeveloped land.
- **East**: Undeveloped land.
- **South**: From east to west, residential property (4816 Terry Lane), Full Circle Swivels (4831 Newton Lane), and an auto repair facility (4828 Newton Lane, formerly Mesa Garage).

- **West**: Newton Lane followed by, from north to south, a materials and debris storage lot (4812 Newton Lane) and a vacant gravel lot.

5.4 Site Observations

Ninyo & Moore evaluated the site for evidence of the following potential environmental concerns:

Table 8 – On-Site Observations

Conditions	Observed or Noted	Comments
Hazardous Substances/Petroleum Products		Not observed
Waste Generation/Storage/Disposal	X	Minor surficial debris was observed at the site. Waste onsite included six bags of green waste along the western site boundary and miscellaneous aluminum, wood, paper, and plastic debris across the site. These materials would be considered a *de minimis* condition. Ninyo & Moore does not consider this a REC.
ASTs		Not observed
Suspected Evidence of USTs		Not observed
PCB-Containing Equipment		Not observed
Chemical/Petroleum Odors		Not observed
Concrete Patches/Pads		Not observed
Sewage Discharge Pipes		Not observed
Floor Drains/Sumps		Not observed
Elevator		Not observed
Wells		Not observed
Drums		Not observed
Unidentified Substance Containers		Not observed
Stained Soil or Pavement		Not observed
Stressed Vegetation		Not observed
Pits, Ponds, or Lagoons		Not observed
Wastewater Discharges Disposal Systems		Not observed
Septic Systems/Cesspools		Not observed
Municipal Solid Waste Disposal Areas		Not observed

6 VAPOR ENCROACHMENT/INTRUSION

The purpose of the preliminary vapor encroachment screen is to identify a vapor encroachment condition (VEC), which is the presence or likely presence of potential contaminants of concern (COC) vapors in subsurface soils at the site caused by the release of vapors from contaminated soil or groundwater either on or near the site. The potential for VECs beneath the site was evaluated using a Vapor Encroachment Screening Matrix (VESM) in accordance with ASTM E 2600-15/-22 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions. The VESM included performing a Search Distance Test to identify if there are any known or suspect contaminated properties surrounding or upgradient of the site within specific search radii, a COC Test (for those known or suspect contaminated sites identified within the Search Distance Test) to evaluate whether or not COCs are likely to be present, and a Critical Distance Test to evaluate whether or not COCs in a contaminated plume may be within

the critical distance of the site (100 feet for non-petroleum hydrocarbon contaminants and 30 feet for petroleum hydrocarbon contaminants).

Based on the completion of the VESM, a VEC was not found and no further investigation is recommended at this time. A copy of the VESM is included in Appendix F.

7 INTERVIEWS

Interviews were conducted by Ninyo & Moore with the objective of obtaining information regarding potential RECs in connection with the site. Interviews with present owners, operators, and/or occupants of the site, as well as other knowledgeable parties as appropriate, is mandated by ASTM E 1527-21. A summary of the interviews conducted is provided in the table below.

Table 9 – Interviews

Representative	Summary
Property Owner	Mr. Daniel Patneaude, property owner representative, completed the property background questionnaire on October 15, 2024. A copy of the questionnaire is provided in Appendix B. According to Mr. Patneaude, the site is currently vacant and has historically remained undeveloped. He stated that USTs have not been installed at the site and is unaware of any issues concerning environmental contamination. Mr. Patneaude indicated a septic system will be installed at the site. Mr. Patneaude stated that both an auto repair facility and junkyard may have been or may be located to the west of the site (discussed in Section 4.1.1). He was not aware of environmental issues impacting the adjoining or nearby properties.
Occupant	The site is currently unoccupied.
Past Owners	Past ownership entities were not made available to Ninyo & Moore during the preparation of this ESA. Therefore, interviews with past site owners were not conducted.

8 FINDINGS

Based upon the results of this Phase I ESA, the following findings are provided.

- The site is comprised of an approximately 4.5-acre parcel and is located at the southeast corner of Sun Mesa Drive and Newton Lane in Yucca Valley, California.
- The site was not listed within the environmental database report.
- At the time of the site reconnaissance, the site was undeveloped. The site was primarily vegetated with dry brush and Joshua Trees. Minor surface debris onsite included six bags of green waste along the western site boundary and miscellaneous metal, wood, paper, and plastic debris across the site (*de minimis* condition). Several shallow excavations (approximately 1-2 feet deep) were observed near the central portion of the site. These appear to be the locations where Joshua Trees had been relocated/replanted.
- Topography at the site and vicinity slopes generally to the southeast. Surface drainage was expected to either percolate into the soil or flow southeast and offsite.

- Based on a review of historical resources, the site vicinity was developed with scattered residential properties by 1970. From the 1980s to present, scattered commercial/industrial properties were developed in the site vicinity.
- Regulatory agency records were requested from the SBCFPD, SCAQMD, EHS, RWQCB, and Town of Yucca Valley; however, no records were found for the site.
- Based on the completion of the VESM, a VEC was not found.

9 OPINIONS

The rationale for concluding whether the conditions listed in Section 8, above, represent RECs, HRECs, or CRECs (i.e., the presence or likely presence of hazardous substances or petroleum products on a property under conditions indicative of releases, past releases, or a material threat of a release of hazardous substances, pollutants, contaminants, and/or petroleum/petroleum products at the site) is provided below.

9.1 RECs

RECs were not identified during the preparation of this report.

9.2 CRECs

CRECs were not identified during the preparation of this report.

9.3 HRECs

HRECs were not identified during the preparation of this report.

9.4 *De Minimis* Conditions

The following *de minimis* conditions were identified in the preparation of this report:

- It is our opinion that surficial debris at the site is considered a *de minimis* condition that, if brought to the attention of an appropriate regulatory agency, would not result in an enforcement action.

9.5 Data Gaps

A data gap is a "lack of or inability to obtain data required by this practice despite good faith efforts to gather such data." Significant data gaps were not identified during the preparation of this report.

9.6 Additional Appropriate Investigation

It is our opinion that additional appropriate investigation to evaluate RECs at the site as part of the Phase I ESA is not required.

10 CONCLUSIONS

We have performed a Phase I ESA, in conformance with the scope and limitations of the ASTM Practice E 1527-21, of the property located at the southeast corner of Sun Mesa Drive and Newton Lane in Yucca Valley, California and identified by APN 0597-111-67-0000. Any exceptions to, or deletions from, this practice are described in Section 1.4 and in the body of this report. This assessment has revealed no evidence of RECs in connection with the property.

11 REFERENCES

ASTM International, 2021, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E-1527-21.

California Department of Toxic Substances Control, 2024, EnviroStor Website: http://www.envirostor.dtsc.ca.gov/public/: accessed in October.

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Environmental Data Resources Inc., 2024, The EDR Aerial Photograph Decade Package, Yucca Valley Property, Newton Lane, Yucca Valley, California 92284: dated September 25.

Environmental Data Resources Inc., 2024, The EDR City Directory Image Report, Yucca Valley Property, Newton Lane, Yucca Valley, California 92284: dated September 26.

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Dibblee, T.W. and Minch, J.A., 2008, Geologic Map of the Joshua Tree & Twentynine Palms 15 Minute Quadrangles, Riverside & San Bernardino Counties, California: Dibblee Geological Foundation.

State Water Resources Control Board, 2024, GeoTracker Online Database: http://geotracker.swrcb.ca.gov: accessed in October.

United States Army Corps of Engineers, 2024, Formerly Used Defense Sites Geographic Information System website, https://rsgis.crrel.usace.army.mil/publicfuds: accessed in October.

United Stated Fish and Wildlife Service, 2024, Wetland Mapper website, https://www.fws.gov/program/national-wetlands-inventory/wetlands-mapper: accessed in October.

United States Geological Survey, 2021, Yucca Valley North, California: 7.5-minute series (topographic), Scale 1:24,000.

12 PROFESSIONAL STATEMENT

As required by 40 CFR §312.21(d) and Section 12.13 of ASTM 1527-21, the following statement is included:

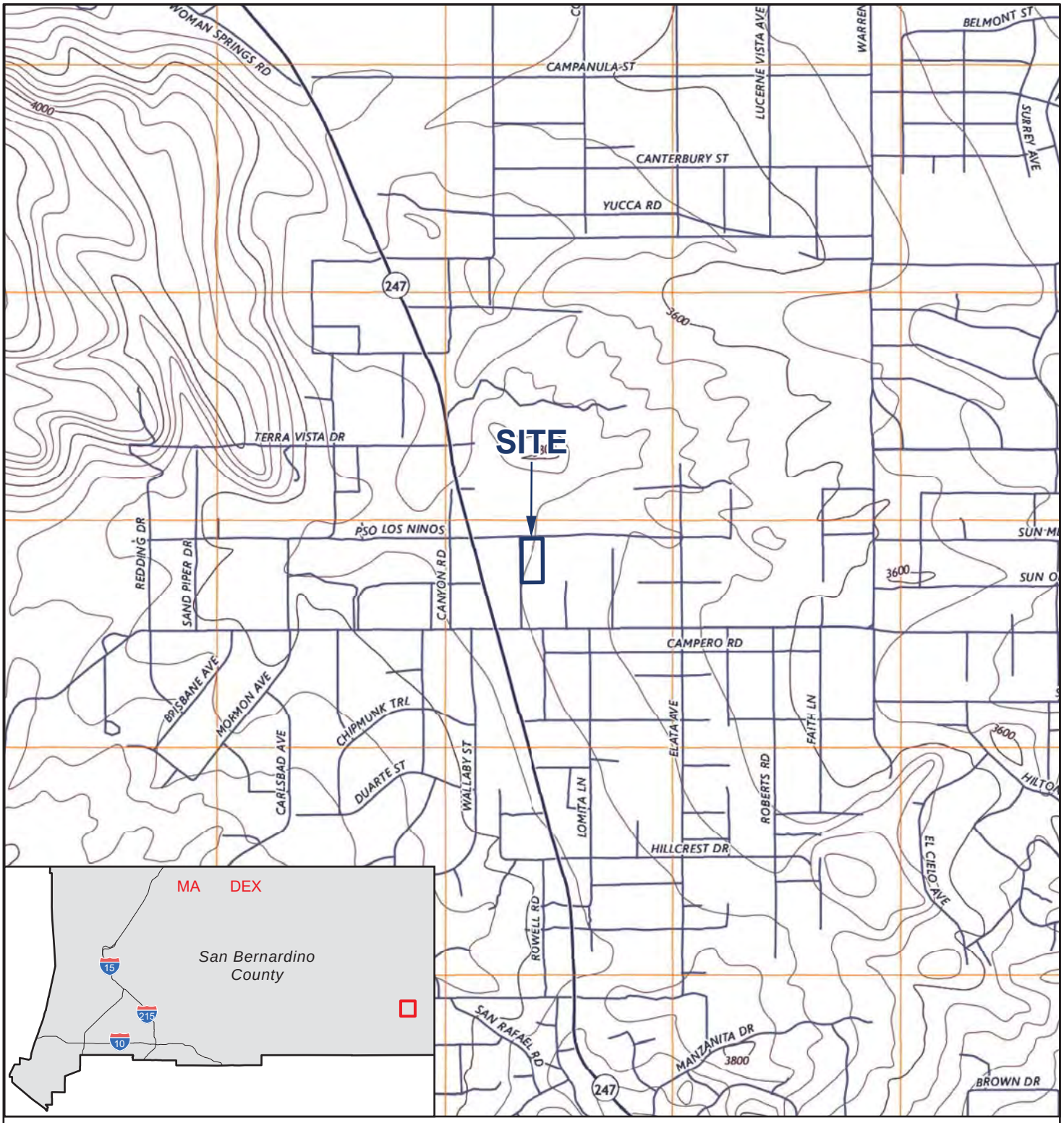
> *I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined by §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.*

Travis W. Meier
Principal Environmental Scientist

13 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

Resumes, which document the professional qualifications, pursuant to 40 CFR §312.10(b)(2), of the persons that prepared and reviewed this report are provided as Appendix G.

FIGURES



109 9 002. r 10 1 2024 DL

E: D REC S D ME S SA D L CA SARE A R X MA E. S RCE: SGS 2024

N

FEE

0 1 500 3 000

FIGURE 1

SITE LOCATION

S EAS C R ER F S MESA DR E A D EW LA E
CCA ALLE CAL F R A

109 9 002 10 24

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

CCA ALLE R ER

LEGE D

S E B DAR
A : 059 11 16

N

FEE

0 200 400

E: D REC S D ME S S A D L CA S ARE A R X MA E. S RCES: ARCELS C F R ERS DE RC 2024 G GLE EAR 2024

109 9 002. r 10 1 2024 DL

FIGURE 2

SITE AND VICINITY

CCA ALLE R ER A : 059 11 16
S EAS C R ER F S MESA DR E A D EW LA E
CCA ALLE CAL F R A

109 9 002 10 24

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

APPENDIX A

Photographs

Photograph 1: **View of the property identified by Accessor's Parcel Number (APN) 0597-111-67-0000 in Yucca Valley, California (site) from the south-west site boundary.**

Photograph 2: **View from the central portion of the site, facing north.**

FIGURE A-1

PHOTOGRAPHS

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

YUCCA VALLEY PROPERTY (APN: 0597-111-67-0000)
SOUTHEAST CORNER OF SUN MESA DRIVE AND NETWON ROAD
YUCCA VALLEY, CALFORNIA

109798002 | 10/24

Photograph 3: View from the central portion of the site, facing east.

Photograph 4: View from the central portion of the site, facing south.

Photograph 5: View from the central portion of the site, facing west.

Photograph 6: View of discarded green waste along the west-central site boundary.

FIGURE A-3

PHOTOGRAPHS

YUCCA VALLEY PROPERTY (APN: 0597-111-67-0000)
SOUTHEAST CORNER OF SUN MESA DRIVE AND NETWON ROAD
YUCCA VALLEY, CALFORNIA

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

109798002 | 10/24

Photograph 7: **View of shallow excavation and replanted Joshua Tree located near the central portion of the site.**

Photograph 8: **View of scattered municipal solid waste located on the southwest portion of the site.**

FIGURE A-4

PHOTOGRAPHS

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

YUCCA VALLEY PROPERTY (APN: 0597-111-67-0000)
SOUTHEAST CORNER OF SUN MESA DRIVE AND NETWON ROAD
YUCCA VALLEY, CALFORNIA

109798002 | 10/24

Photograph 9: View along Sun Mesa Drive located north of the site, facing east.

Photograph 10: View along Sun Mesa Drive located north of the site, facing west.

Photograph 11: **View of vacant land located north of the site.**

Photograph 12: **View of undeveloped land located east of the site.**

Photograph 13: **View of residential property (4816 Terry Lane) located southeast of the site.**

Photograph 14: **View of Full Circle Swivels (4831 Newton Lane) located south of the site.**

Photograph 15: View of the auto repair facility (4828 Newton Lane) located south-west of the site.

Photograph 16: View along Newton Lane located west of the site, facing north.

Photograph 17: **View of vacant gravel lot located west of the site.**

Photograph 18: **View of construction materials/debris storage lot located west of the site.**

APPENDIX B

User and Property Owner Provided Information

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

USER QUESTIONNAIRE

Property Address:

Yucca Valley Property
Southeast Corner of Sun Mesa Drive and Newton Lane
Yucca Valley, California 92284
San Bernardino County APN: 0597-111-67-0000

Please respond to all of the following questions to the best of your knowledge. The purpose of this questionnaire is to assist the user (the client or party seeking to use the Phase I ESA) and the environmental professional in gathering information from the user that may be material to documenting Recognized Environmental Conditions (RECs) at the site. Please note that the user of the Phase I ESA (the client), if seeking protection from CERCLA liability, must adhere to a set of user responsibilities as defined by the ASTM International (ASTM) Standard Practice E1527-21 and the United States Environmental Protection Agency (EPA) 40 Code of Federal Regulations Part 312 titled "Standards and Practices for all Appropriate Inquiries (AAI)". Failure to provide this information could result in a determination that AAI is not complete.

Per Section 6 of ASTM Standard E1527-21 and 40 CFR Part 312 of the AAI rule, the user's responsibilities include, but are not limited to, the following:

- review reasonably ascertainable land title records, lien records, and/or judicial records to search for environmental cleanup liens or activity and use limitations (AULs) against the site filed or recorded under federal, tribal, state, or local law, or engage a title company to review such records. Evidence of environmental liens and/or activity and use limitations on the site, if discovered, must be provided to the environmental consultant;
- report to the environmental professional specialized knowledge or experience material to RECs in connection with the property;
- report to the environmental professional knowledge of environmental liens or AULs encumbering or in connection with the property;
- consider the relationship of the purchase price of the property to its fair market value and whether a lower purchase price is related to potential contamination;
- report to the environmental professional commonly known or reasonably ascertainable information material to RECs; and
- report to the environmental professional the reason for conducting the Phase I ESA.

User responsibilities, CERCLA liability relief, and AAI components are discussed in the AAI rule and in the ASTM E1527-21 standard.

1) Environmental cleanup liens that are filed or recorded against the property (40 CFR 312.25).

Did a search of recorded land title records (or judicial records where appropriate) identify environmental liens filed or recorded against the property under federal, tribal, state or local law?

☐ Yes ☒ No

2) **Activity and use limitations (AULs) that are in place on the property or that have been filed or recorded against the property (40 CFR 312.26(a)(1)(v) and (vi).**

Did a search of recorded land title records (or judicial records where appropriate) identify any AULs, such as engineering controls, land use restrictions or institutional controls, that are in place at the property and/or have been filed or recorded against the property under federal, tribal, state or local law?

☐Yes ☒No

3) **Specialized knowledge or experience of the person seeking to qualify for the liability protections (40 CFR 312.28).**

As the user of this Phase I ESA do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

☐Yes ☒No If yes, please describe:

4) **Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29).**

a) Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

☒Yes ☐No ☐Not applicable (No Property Purchase Involved)

b) If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property?

☐Yes ☐No ☐Not applicable

c) If there is a price difference, please describe:

5) **Commonly known or reasonably ascertainable information about the property (40 CFR 312.30).**

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as the user,

a) Do you know the past uses of the property?

☒Yes ☐No If yes, please describe: VACANT LOT

b) Do you know of specific chemicals that are present or once were present at the property?

☐Yes ☒No If yes, please describe:

c) Do you know of spills or other chemical releases that have taken place at the property?

☐Yes ☒No If yes, please describe:

d) Do you know of any environmental cleanups that have taken place at the property?

☐Yes ☒No If yes, please describe:

6) **The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31).**
As the user of this ESA, based on your knowledge and experience related to the property are there any obvious indicators that point to the presence or likely presence of contamination at the property?
☐Yes ☒No If yes, please describe:

7) **What is the reason for having the Phase I ESA performed (ASTM 1527-21, Section 6.8)?**
REQUIREMENTS OF THE TOWN OF YUCCA VALLEY WITH OUR NEW DEVELOPMENT PERMIT

8) **Are you aware of any previously prepared documentation for the site, such as:**

- previous Phase I ESA or Phase II ESA reports
- environmental sampling, compliance audit, or assessment reports
- environmental permits
- registrations for aboveground or underground storage tanks
- registrations for underground injections systems
- safety data sheets (SDS)
- community right-to-know plans,
- safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans
- geotechnical or hydrogeologic reports
- storm water documents
- risk assessments
- hazardous waste generator notices

☐Yes ☒No If yes, please describe: ALL NEW REPORT HAVE BEEN DONE BY DRP LSA THAT ARE FOR NEW PROJECT ONLY - NOTHING PRIOR TO THIS.

Completed By:

D Patneaude 10-16-2024
Signature Date

Dan Patneaude Civil Engineer, Owner DRP
Printed Name Title

Ninyo & Moore

PROPERTY BACKGROUND QUESTIONNAIRE

Property Address: Yucca Valley Property
Southeast Corner of Sun Mesa Drive and Newton Lane
Yucca Valley, California 92284
San Bernardino County APN: 0597-111-67-0000

*Please answer *in good faith and to the best of your ability* and elaborate as much as possible on any question answered "yes."

General Information

1) Describe the current uses of the site. How long has the site been used for these purposes?
Site Vacant -

2) Describe the structures previously present at the site and their usage/occupants and age.
N/A

3) When were the structures constructed, if known?
N/A

4) What is the historical land use of the site? Describe the past uses, owners, and operators of the site. (Be as detailed as possible and note approximate time periods, if known.)
None Vacant -

5) Are there currently, or were there previously any underground storage tanks (USTs) at the site? If so, please describe their capacities and contents.
No

6) Have all USTs been removed from the site? If so, when?
NA

7) Was associated underground piping associated with the USTs removed?
NA

8) Was soil and/or groundwater sampling conducted at the time of UST removal? If so, please describe.
NA

9) Are you aware of any environmental issues associated with the site or of potential soil and/or groundwater contamination?

[ ] Yes [X] No

10) Have fill soils been brought to the property?

[ ] Yes [ ] (No) [ ] Unknown

11) Has there been storage of hazardous materials or wastes on the property?

[ ] Yes [ ] (No) [ ] Unknown

12) Have any of the following items been stored on the site in containers greater than 5 gallons?

Paint [ ] Yes [ ] (No) [ ] Unknown
Chemicals [ ] Yes [ ] (No) [ ] Unknown
Pesticides/Herbicides [ ] Yes [ ] (No) [ ] Unknown
Automotive-Related Oils/Fuels [ ] Yes [ ] (No) [ ] Unknown

13) Have there been any spills or releases of chemicals, hazardous substances, or wastes on the property?

[ ] Yes [ ] (No) [ ] Unknown

14) Have any hazardous substances, petroleum products, unidentified waste materials, tires, automotive or industrial batteries, or other waste materials been dumped aboveground, buried, or burned on the site?

[ ] Yes [(No)] Unknown

15) Is the site hooked up to a municipal sanitary sewer system or is there a septic tank/system?

[ ] Sanitary Sewer [(Septic) - Future.

16) Are/were there any subsurface wastewater features, such as sumps, clarifiers, discharge systems, at the site?

[ ] Yes [ ] (No) [ ] Unknown

17) Does the site discharge wastewater, other than domestic wastewater or storm water, into the sewer or onto another property?

[ ] Yes [ ] (No) [ ] Unknown

18) Other than permission for domestic hookup, have any city, county, or other permits for wastewater discharge been issued to the site?

[ ] Yes [ ] (No) [ ] Unknown

19) Is there a transformer, capacitor, or other equipment that may contain PCBs on the site?

[ ] Yes [ ] (No) [ ] Unknown

20) Other than small quantities of legal pesticides used for landscape maintenance (e.g., Roundup), have pesticides, herbicides, or insecticides been applied on the site?

[ ] Yes [ ] (No) [ ] Unknown

21) Are/were there any wells on the site (e.g., water supply wells, groundwater monitoring wells, etc.)

[ ] Yes [ ] (No) [ ] Unknown

22) Are there currently, or were there previously, any pits, ponds, or lagoons on the site?

[ ] Yes [ ] (No) [ ] Unknown

23) Are there currently, or were there previously, areas on the site with stained soil?

[ ] Yes [ ] (No) [ ] Unknown

24) To your knowledge, have adjoining properties been used for industrial activities, such the following? (Please note that an adjoining property is a property that is contiguous with, or directly across the street from the site.)

Gasoline Station [ ] Yes [ ] (No) [ ] Unknown
Printing Facility [ ] Yes [ ] (No) [ ] Unknown
Metal Plating/Manufacturing [ ] Yes [ ] (No) [ ] Unknown
Landfill [ ] Yes [ ] (No) [ ] Unknown
Auto Repair Facility [ ] (Yes) [ ] No [ ] Unknown — possible yard
Dry Cleaners [ ] Yes [ ] (No) [ ] Unknown
Junkyard [ ] (Yes) [ ] No [ ] Unknown
Waste or Wastewater Treatment [ ] Yes [ ] (No) [ ] Unknown
Storage, Disposal, or Recycling Facility [ ] Yes [ ] (No) [ ] Unknown

25) Are there any known issues related to spills/contamination with adjoining or nearby properties?

[ ] Yes [ ] (No) [ ] Unknown

26) Are you aware of any previously prepared documentation for the site, such as:

- environmental sampling, compliance audit, or assessment reports
- environmental permits
- registrations for aboveground or underground storage tanks
- safety data sheets (SDS)
- community right-to-know plans
- safety plans; preparedness and prevention plans; spill prevention, countermeasure, and control plans
- geotechnical or hydrogeologic reports
- storm water documents
- risk assessments

(If so, are they available for review?) NONE

Legal/Activity and Use Limitations

27) Are you aware of any environmental cleanup liens or activity and use limitations such as engineering controls, land use or deed restrictions or institutional controls associated with the site that are filed or recorded under federal, tribal, state, or local law?

[ ] Yes [X] No

28) Are you aware of any pending, threatened, or past litigation or administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property?

[ ] Yes [X] No

29) Are you aware of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products?

[ ] Yes [X] No

Dan P. — NAME (IN PRINT)

10.15.24 — DATE

SIGNATURE

[ ] Owner [ ] Occupant [X] Owner Representative [ ] Other:

***When complete, return questionnaire via email and/or mail to the following:**

Mr. Gabriel Haro
Senior Staff Geologist
Ninyo and Moore
5710 Ruffin Road
San Diego, California 92123
gharo@ninyoandmoore.com
(858) 576-1000 (ext. 11271) Office
(858) 576-9600 Fax

APPENDIX C

Environmental Database Report

Yucca Valley Property
Newton Lane
Yucca Valley, CA 92284

Inquiry Number: 7773517.2s
September 24, 2024

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TP0MYLBC-ASH

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Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-8
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

NEWTON LANE
YUCCA VALLEY, CA 92284

COORDINATES

Latitude (North):	34.1669820 - 34˚ 10' 1.13''
Longitude (West):	116.4208050 - 116˚ 25' 14.89''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	553384.1
UTM Y (Meters):	3780627.5
Elevation:	3721 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	50004086 YUCCA VALLEY NORTH, CA
Version Date:	2021

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20200416
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
NEWTON LANE
YUCCA VALLEY, CA 92284

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	BURRTEC YUCCA VALLEY		PFAS ECHO	Higher	29, 0.005, NW
A2	FULL-CIRCLE, INC.	4831 NEWTON RD	CERS HAZ WASTE, CHMIRS, San Bern. Co. Permit, CERS	Higher	166, 0.031, SSW
A3	FULL CIRCLE	4831 NEWTON RD	RCRA NonGen / NLR, E MANIFEST	Higher	166, 0.031, SSW
A4	FULL CIRCLE	4831 NEWTON RD	HWTS, HAZNET	Higher	166, 0.031, SSW
A5	VISTA AUTO TRUCK	4828 NEWTON	HWTS, HAZNET	Higher	187, 0.035, SSW
A6	CRAFTSMANS RV TRUCK	4828 NEWTON LANE	HWTS, HAZNET	Higher	187, 0.035, SSW
A7	CS BEAMAN INC DBA ME	4828 NEWTON ST	HWTS	Higher	195, 0.037, SSW
8	AMERIGAS PROPANE	4785 OLD WOMAN SPRIN	AST, EMI, HWTS, HAZNET, San Bern. Co. Permit, CERS	Higher	548, 0.104, West
B9	BURRTEC YUCCA VALLEY	4878 NEWTON RD	AST	Higher	587, 0.111, SSW
B10	BURRTEC YUCCA VALLEY	4878 NEWTON RD	NPDES, San Bern. Co. Permit, CIWQS, CERS	Higher	587, 0.111, SSW
B11	HI DESERT DISPOSAL	4878 NEWTON LN	RCRA-SQG, FINDS, ECHO	Higher	587, 0.111, SSW
B12	BURRTEC	4878 NEWTON ST	HWTS, HAZNET	Higher	587, 0.111, SSW
B13	BURRTEC WASTE	4878 NEWTON ROAD	RCRA NonGen / NLR, E MANIFEST	Higher	587, 0.111, SSW
B14	WASTE MANAGEMENT OF	4878 NEWTON ST	HWTS, HAZNET	Higher	587, 0.111, SSW
C15	BILL'S DIESEL TRUCK	4695 S OLD WOMAN SPR	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Higher	596, 0.113, NW
C16	BILLS DIESEL	4695 OLD WOMAN SPRIN	HWTS	Higher	596, 0.113, NW
C17	BILLS DIESEL RPR	4695 OLD WOMAN SPRIN	RCRA-SQG	Higher	596, 0.113, NW
C18	BILL'S DIESEL	4695 OLD WOMAN SPRIN	HWTS	Higher	596, 0.113, NW
B19	HI DESERT TRUCK & EN	56920 BUENA VISTA	HWTS	Higher	630, 0.119, SSW
20	FICARA PAVING CO INC	4712 CANYON ST	HWTS	Higher	1058, 0.200, West

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Lists of Federal Delisted NPL sites

Delisted NPL ---------- National Priority List Deletions

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS ---------- Corrective Action Report

Lists of Federal RCRA TSD facilities

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Lists of Federal RCRA generators

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROLS Institutional Controls Sites List

Federal ERNS list

ERNS Emergency Response Notification System

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE State Response Sites

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR EnviroStor Database

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF Solid Waste Information System

Lists of state and tribal leaking storage tanks

LUST Geotracker's Leaking Underground Fuel Tank Report
INDIAN LUST Leaking Underground Storage Tanks on Indian Land
CPS-SLIC Statewide SLIC Cases

Lists of state and tribal registered storage tanks

FEMA UST Underground Storage Tank Listing
UST Active UST Facilities
INDIAN UST Underground Storage Tanks on Indian Land

Lists of state and tribal voluntary cleanup sites

INDIAN VCP Voluntary Cleanup Priority Listing
VCP Voluntary Cleanup Program Properties

Lists of state and tribal brownfield sites

BROWNFIELDS Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT Waste Management Unit Database
SWRCY Recycler Database
HAULERS Registered Waste Tire Haulers Listing
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
ODI Open Dump Inventory
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS Open Dumps on Indian Land

EXECUTIVE SUMMARY

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL	Delisted National Clandestine Laboratory Register
HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
CDL	Clandestine Drug Labs
Toxic Pits	Toxic Pits Cleanup Act Sites
US CDL	National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

SWEEPS UST	SWEEPS UST Listing
HIST UST	Hazardous Substance Storage Container Database
CERS TANKS	California Environmental Reporting System (CERS) Tanks
CA FID UST	Facility Inventory Database

Local Land Records

LIENS	Environmental Liens Listing
LIENS 2	CERCLA Lien Information
DEED	Deed Restriction Listing

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
CHMIRS	California Hazardous Material Incident Report System
LDS	Land Disposal Sites Listing
MCS	Military Cleanup Sites Listing
SPILLS 90	SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS	Formerly Used Defense Sites
DOD	Department of Defense Sites
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR	Financial Assurance Information
EPA WATCH LIST	EPA WATCH LIST
2020 COR ACTION	2020 Corrective Action Program List
TSCA	Toxic Substances Control Act
TRIS	Toxic Chemical Release Inventory System
SSTS	Section 7 Tracking Systems
ROD	Records Of Decision
RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database

HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
MINES MRDS	Mineral Resources Data System
FINDS	Facility Index System/Facility Registry System
UXO	Unexploded Ordnance Sites
ECHO	Enforcement & Compliance History Information
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
PFAS NPL	Superfund Sites with PFAS Detections Information
PFAS FEDERAL SITES	Federal Sites PFAS Information
PFAS TRIS	List of PFAS Added to the TRI
PFAS TSCA	PFAS Manufacture and Imports Information
PFAS RCRA MANIFEST	PFAS Transfers Identified In the RCRA Database Listing
PFAS ATSDR	PFAS Contamination Site Location Listing
PFAS WQP	Ambient Environmental Sampling for PFAS
PFAS NPDES	Clean Water Act Discharge Monitoring Information
PFAS PROJECT	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS ECHO FIRE TRAIN	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC	Aqueous Foam Related Incidents Listing
BIOSOLIDS	ICIS-NPDES Biosolids Facility Data
UST FINDER	UST Finder Database
UST FINDER RELEASE	UST Finder Releases Database
PFAS	PFAS Investigation Site Location Listing
AQUEOUS FOAM	Former Fire Training Facility Assessments Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
CHROME PLATING	Chrome Plating Facilities Listing
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	Inspection, Compliance and Enforcement
HIST CORTESE	Hazardous Waste & Substance Site List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
HAZNET	Facility and Manifest Data
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
HAZMAT	Hazardous Material Facilities
UIC	UIC Listing
UIC GEO	UIC GEO (GEOTRACKER)

WASTEWATER PITS Oil Wastewater Pits Listing
WDS Waste Discharge System
WIP Well Investigation Program Case List
MILITARY PRIV SITES MILITARY PRIV SITES (GEOTRACKER)
PROJECT PROJECT (GEOTRACKER)
WDR Waste Discharge Requirements Listing
CIWQS California Integrated Water Quality System
CERS CERS
NON-CASE INFO NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ Well Stimulation Project (GEOTRACKER)

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF Recovered Government Archive Solid Waste Facilities List
RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal RCRA generators

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 06/03/2024 has revealed that there are 2

RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HI DESERT DISPOSAL EPA ID:: CAD983619560	***4878 NEWTON LN***	***SSW 0 - 1/8 (0.111 mi.)***	***B11***	***87***
BILLS DIESEL RPR EPA ID:: CAR000085654	4695 OLD WOMAN SPRIN	NW 0 - 1/8 (0.113 mi.)	C17	165

Lists of state and tribal registered storage tanks

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there are 2 AST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERIGAS PROPANE Database: AST, Date of Government Version: 07/06/2016	***4785 OLD WOMAN SPRIN***	***W 0 - 1/8 (0.104 mi.)***	***8***	***73***
BURRTEC YUCCA VALLEY Database: AST, Date of Government Version: 07/06/2016	4878 NEWTON RD	SSW 0 - 1/8 (0.111 mi.)	B9	80

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 07/10/2024 has revealed that there are 2 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FULL-CIRCLE, INC.	***4831 NEWTON RD***	***SSW 0 - 1/8 (0.031 mi.)***	***A2***	***10***
BILL'S DIESEL TRUCK	***4695 S OLD WOMAN SPR***	***NW 0 - 1/8 (0.113 mi.)***	***C15***	***159***

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 06/03/2024 has revealed that

there are 2 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FULL CIRCLE EPA ID:: CAL000212349	***4831 NEWTON RD***	***SSW 0 - 1/8 (0.031 mi.)***	***A3***	***19***
BURRTEC WASTE EPA ID:: CAL000305622	***4878 NEWTON ROAD***	***SSW 0 - 1/8 (0.111 mi.)***	***B13***	***121***

PFAS ECHO: Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

A review of the PFAS ECHO list, as provided by EDR, and dated 07/01/2024 has revealed that there is 1 PFAS ECHO site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BURRTEC YUCCA VALLEY		NW 0 - 1/8 (0.005 mi.)	1	9

E MANIFEST: EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

A review of the E MANIFEST list, as provided by EDR, and dated 07/24/2023 has revealed that there are 2 E MANIFEST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FULL CIRCLE	***4831 NEWTON RD***	***SSW 0 - 1/8 (0.031 mi.)***	***A3***	***19***
BURRTEC WASTE	***4878 NEWTON ROAD***	***SSW 0 - 1/8 (0.111 mi.)***	***B13***	***121***

HWTS: DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

A review of the HWTS list, as provided by EDR, and dated 07/19/2024 has revealed that there are 11 HWTS sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FULL CIRCLE	***4831 NEWTON RD***	***SSW 0 - 1/8 (0.031 mi.)***	***A4***	***30***
VISTA AUTO TRUCK	***4828 NEWTON***	***SSW 0 - 1/8 (0.035 mi.)***	***A5***	***69***
CRAFTSMANS RV TRUCK	***4828 NEWTON LANE***	***SSW 0 - 1/8 (0.035 mi.)***	***A6***	***70***
CS BEAMAN INC DBA ME	4828 NEWTON ST	SSW 0 - 1/8 (0.037 mi.)	A7	72
AMERIGAS PROPANE	***4785 OLD WOMAN SPRIN***	***W 0 - 1/8 (0.104 mi.)***	***8***	***73***
BURRTEC	***4878 NEWTON ST***	***SSW 0 - 1/8 (0.111 mi.)***	***B12***	***89***
WASTE MANAGEMENT OF	***4878 NEWTON ST***	***SSW 0 - 1/8 (0.111 mi.)***	***B14***	***132***
BILLS DIESEL	4695 OLD WOMAN SPRIN	NW 0 - 1/8 (0.113 mi.)	C16	164
BILL'S DIESEL	4695 OLD WOMAN SPRIN	NW 0 - 1/8 (0.113 mi.)	C18	167
HI DESERT TRUCK & EN	56920 BUENA VISTA	SSW 0 - 1/8 (0.119 mi.)	B19	168
FICARA PAVING CO INC	4712 CANYON ST	W 1/8 - 1/4 (0.200 mi.)	20	168

EXECUTIVE SUMMARY

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

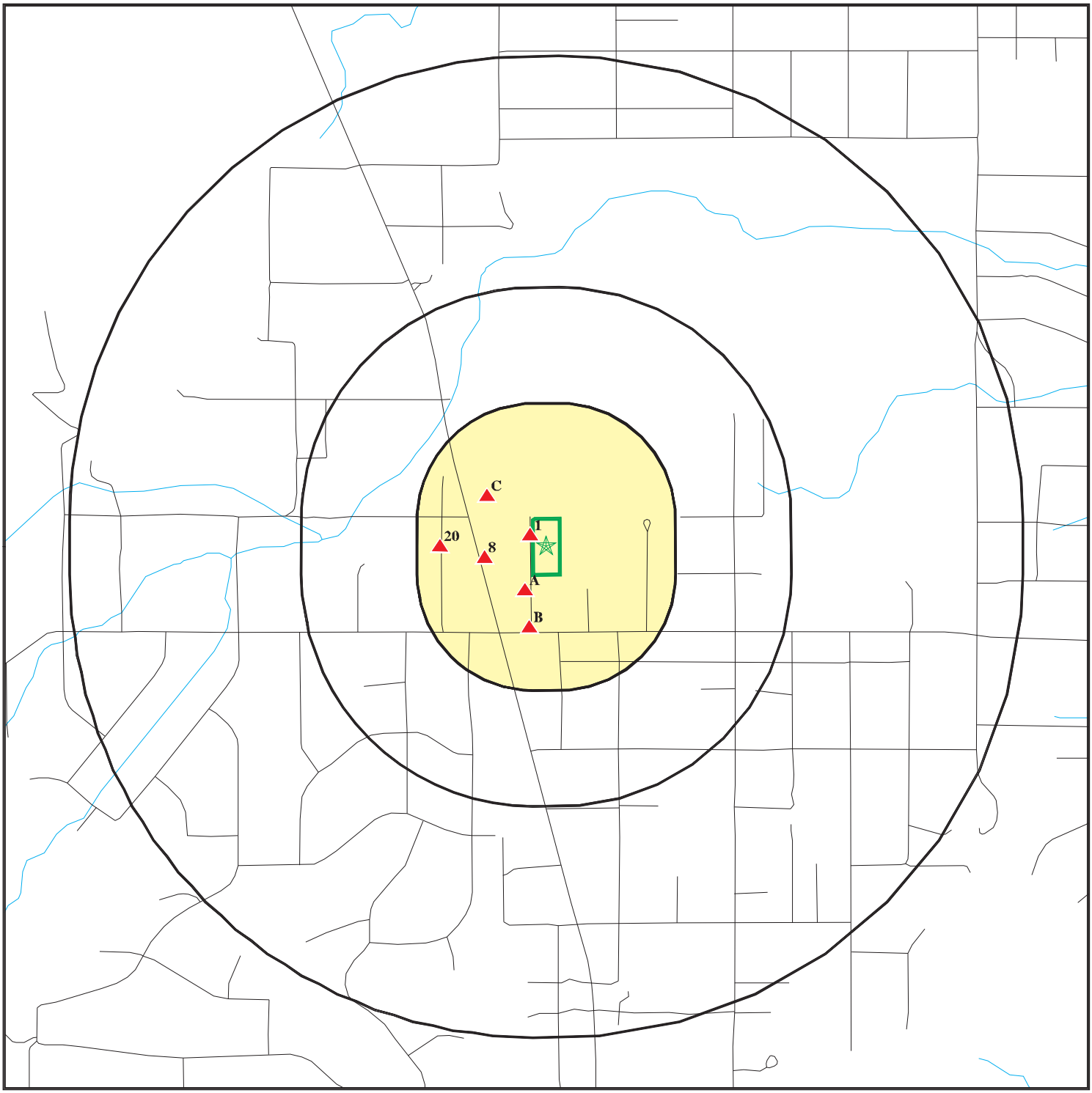
A review of the San Bern. Co. Permit list, as provided by EDR, and dated 08/13/2024 has revealed that there are 4 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FULL-CIRCLE, INC. Facility Status: ACTIVE Facility Id: FA0009441	***4831 NEWTON RD***	***SSW 0 - 1/8 (0.031 mi.)***	***A2***	***10***
AMERIGAS PROPANE Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0009443	***4785 OLD WOMAN SPRIN***	***W 0 - 1/8 (0.104 mi.)***	***8***	***73***
BURRTEC YUCCA VALLEY Facility Status: INACTIVE Facility Id: FA0007226	***4878 NEWTON RD***	***SSW 0 - 1/8 (0.111 mi.)***	***B10***	***82***
BILL'S DIESEL TRUCK Facility Status: ACTIVE Facility Id: FA0001483	***4695 S OLD WOMAN SPR***	***NW 0 - 1/8 (0.113 mi.)***	***C15***	***159***

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 7773517.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Yucca Valley Property	CLIENT: Ninyo & Moore
ADDRESS: Newton Lane	CONTACT: Gabriel Haro
Yucca Valley CA 92284	INQUIRY #: 7773517.2s
LAT/LONG: 34.166982 / 116.420805	DATE: September 24, 2024 5:50 pm

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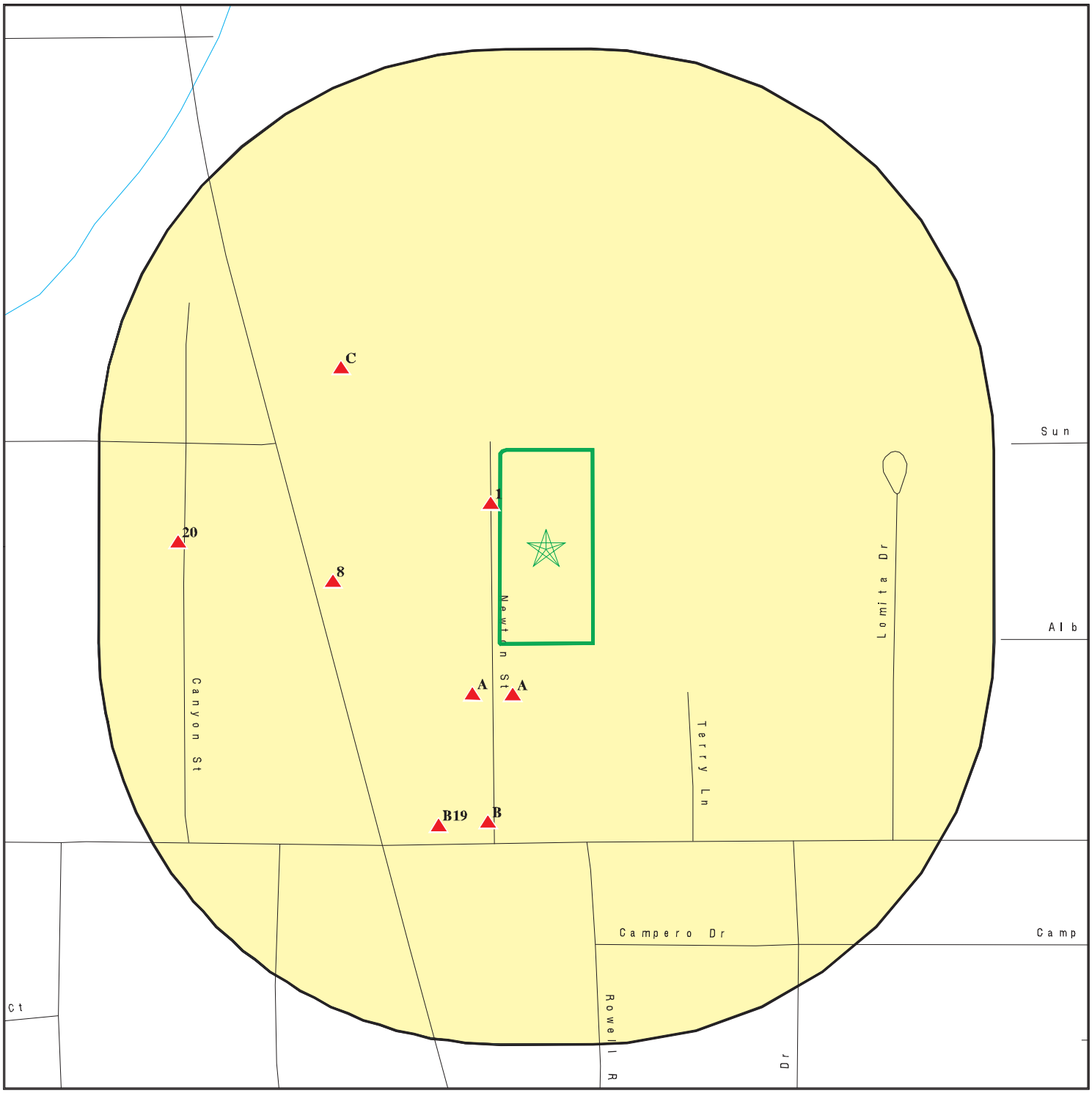
DETAIL MAP - 7773517.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

Areas of Concern

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Yucca Valley Property ADDRESS: Newton Lane Yucca Valley CA 92284 LAT/LONG: 34.166982 / 116.420805	CLIENT: Ninyo & Moore CONTACT: Gabriel Haro INQUIRY #: 7773517.2s DATE: September 24, 2024 5:51 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		2	0	NR	NR	NR	2
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal (Superfund) equivalent sites								
RESPONSE	1.000		0	0	0	0	NR	0
Lists of state- and tribal hazardous waste facilities								
ENVIROSTOR	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Lists of state and tribal leaking storage tanks								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		2	0	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		2	0	NR	NR	NR	2
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		0	0	NR	NR	NR	0
HIST UST	0.250		0	0	NR	NR	NR	0
CERS TANKS	0.250		0	0	NR	NR	NR	0
CA FID UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		2	0	NR	NR	NR	2
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		1	0	NR	NR	NR	1
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	NR	NR	NR	0
UST FINDER	0.250		0	0	NR	NR	NR	0
UST FINDER RELEASE	0.500		0	0	0	NR	NR	0
E MANIFEST	0.250		2	0	NR	NR	NR	2
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
CHROME PLATING	0.500		0	0	0	NR	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	0	0	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
HWTS	0.250		10	1	NR	NR	NR	11
HAZNET	TP		NR	NR	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250		4	0	NR	NR	NR	4
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
HAZMAT	0.250		0	0	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
UIC GEO	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	TP		NR	NR	NR	NR	NR	0
PROJECT	TP		NR	NR	NR	NR	NR	0
WDR	TP		NR	NR	NR	NR	NR	0
CIWQS	TP		NR	NR	NR	NR	NR	0
CERS	TP		NR	NR	NR	NR	NR	0
NON-CASE INFO	TP		NR	NR	NR	NR	NR	0
OTHER OIL GAS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
PROD WATER PONDS	TP		NR	NR	NR	NR	NR	0
SAMPLING POINT	TP		NR	NR	NR	NR	NR	0
WELL STIM PROJ	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	25	1	0	0	0	26

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NW
< 1/8
0.005 mi.
29 ft.

BURRTEC YUCCA VALLEY YARD
YUCCA VALLEY, CA

PFAS ECHO **1027335870** **N/A**

Relative:
Higher

Actual:
3727 ft.

PFAS ECHO:

Name:	BURRTEC YUCCA VALLEY YARD
Address:	Not reported
City,State,Zip:	YUCCA VALLEY, CA
Latitude:	34.16738
Longitude:	-116.42141
Count:	1
County:	SAN BERNARDINO COUNTY
Status:	Inactive
Region:	09
Industry:	Waste Management
ECHO Facility Report:	https://echo.epa.gov/detailed-facility-report?fid=110070090144
Facility Percent Minority:	22.164
Facility Derived Tribes:	Twenty-Nine Palms Band of Mission Indians of California - 22 mile(s), Morongo Band of Mission Indians, California - 22 mile(s), Agua Caliente Band of Cahuilla Indians of the Agua Caliente Indian Reservation, California - 22 mile(s)
Facility Population:	214.37
EPA Programs:	CWA
Federal Facility:	No
Federal Agency:	-
Facility FIPS Code:	06071
Facility Indian Country Flag:	N
Facility Collection Method:	-
Facility Derived HUC:	18100100
Facility Derived WBD:	181001001603
Facility Derived CD113:	08
Facility Derived CB2010:	060710104101132
Facility Major Flag:	-
Facility Active Flag:	Y
Facility Inspection Count:	0
Facility Date Last Inspection:	-
Facility Days Last Inspection:	-
Facility Informal Count:	0
Facility Date Last Informal Action:	-
Facility Formal Action Count:	0
Facility Date Last Formal Action:	-
Facility Total Penalties:	0
Facility Penalty Count:	-
Facility Date Last Penalty:	-
Facility Last Penalty AMT:	-
Facility QTRS With NC:	0
Facility Programs With SNC:	0
Facility Compliance Status:	No Violation Identified
Facility SNC Flag:	N
AIR Flag:	N
NPDES Flag:	Y
SDWIS Flag:	N
RCRA Flag:	N
TRI Flag:	N
GHG Flag:	N
AIR IDS:	-
CAA Permit Types:	-

BURRTEC YUCCA VALLEY YARD (Continued) **1027335870**

CAA NAICS:	-
CAA SICS:	-
NPDES IDS:	CAZ303932
CWA Permit Types:	Non-M
CWA NAICS:	-
CWA SICS:	4953
RCRA IDS:	-
RCRA Permit Types:	-
RCRA NAICS:	-
SDWA IDS:	-
SDWA System Types:	-
SDWA Compliance Status:	-
SDWA SNC Flag:	N
TRI IDS:	-
TRI Releases Transfers:	-
TRI On Site Releases:	-
TRI Off Site Transfers:	-
TRI Reporter:	-
Facility IMP Water Flag:	-
EJSCREEN Flag US:	Y

EJSCREEN Report:

A2 **FULL-CIRCLE, INC.** **CERS HAZ WASTE** **S105092618**
SSW **4831 NEWTON RD** **CHMIRS** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284** **San Bern. Co. Permit**
0.031 mi. **CERS**
166 ft. **Site 1 of 6 in cluster A**

Relative:
Higher

Actual:
3729 ft.

CERS HAZ WASTE:

Name:	FULL-CIRCLE, INC.
Address:	4831 NEWTON RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Site ID:	393584
CERS ID:	10049953
CERS Description:	Hazardous Waste Generator

CHMIRS:

Name:	Not reported
Address:	4831 NEWTON RD
City,State,Zip:	YUCCA VALLEY, CA
OES Incident Number:	1-4756
OES notification:	08/10/2011
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported

FULL-CIRCLE, INC. (Continued) **S105092618**

Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Industrial Plant
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Unknown
Other:	Not reported
Date/Time:	800
Year:	2011
Agency:	NRC
Incident Date:	8/9/2011
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported
Contained:	Unknown
Site Type:	Not reported
E Date:	Not reported
Substance:	Machine Coolant
Quantity Released:	Unknown
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Per NRC report, caller stated that there was a release of an unknown amount of machine coolant from several machines that had been cleaned out onto land.

San Bern. Co. Permit:

Name:	FULL-CIRCLE, INC.
Address:	4831 NEWTON RD

FULL-CIRCLE, INC. (Continued) **S105092618**

City,State,Zip: YUCCA VALLEY, CA 92284
Region: SAN BERNARDINO
Facility ID: FA0009441
Owner: SMITH, WALTER
Permit Number: PT0016131
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 01/31/2025

Name: FULL-CIRCLE, INC.
Address: 4831 NEWTON RD
City,State,Zip: YUCCA VALLEY, CA 92284
Region: SAN BERNARDINO
Facility ID: FA0009441
Owner: SMITH, WALTER
Permit Number: PT0016132
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 01/31/2025

CERS:
Name: FULL-CIRCLE, INC.
Address: 4831 NEWTON RD
City,State,Zip: YUCCA VALLEY, CA 92284
Site ID: 393584
CERS ID: 10049953
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 07-07-2021
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/15/2021. OBSERVATION: At the time of the inspection, the last business plan certification by this facility was 3/30/2020 for the facility information and 3/8/2019 for the inventory and emergency response information. CORRECTIVE ACTION: Certify the business plan via CERS. The CERS ID# 10049953.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 12-19-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/20/2015. Failure to inspect Hazardous Waste container storage areas weekly (CCR 66265.174) Hazardous waste storage areas and containers must be inspected weekly for leaking containers, proper labeling, debris, spillage, closed containers, compatible containers, and adequate aisle space. Hazardous waste

FULL-CIRCLE, INC. (Continued) **S105092618**

storage area weekly inspections are not conducted. Corrective Text: Conduct Hazardous Waste Weekly Inspections. Submit three consecutive weeks of completed Weekly Hazardous Waste Storage Area Inspection Checklists.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 12-19-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/26/2014. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Observed (3) 55 gallon drums of oily water waste, and (1) 55 gallon drum of used oil with missing accumulation start dates. Per operator the accumulation start date of the used oil is 10/01/2014, and 12/01/2014 for the oily water waste. The violation was corrected at the time of the inspection: operator added new hazardous waste labels with all the required information and the accumulation start date to all the hazardous waste drums at the time of the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 12-19-2014
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 01/20/2015. The business plan elements were last submitted via CERS on 08/06/2013.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 01-31-2018
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/31/2018. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Observed hazardous waste containers with missing accumulation start date. Start date was marked at the time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 01-31-2018

FULL-CIRCLE, INC. (Continued) **S105092618**

Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/31/2018. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Observed hazardous waste containers without proper labeling. Hazardous waste labeling was corrected at the time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 12-19-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/19/2014. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) All containers and tanks used to store a hazardous waste must be labeled or marked with the words hazardous waste; Containers accumulating used oil must be labeled with the words Used Oil, and include the following information: generator name and address, hazardous properties of the waste, composition and physical state of the waste, and the accumulation start date. Observed (3) 55 gallon drums of oily water waste with missing hazardous waste labels. The violation was corrected at the time of the inspection: operator added new hazardous waste labels with all the required information to all the hazardous waste drums at the time of the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 12-19-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/19/2014. Failure to manage contaminated containers lawfully (CCR 66261.7) Containers, or inner liners removed from a container, that previously held a hazardous material or a hazardous waste are considered contaminated containers and shall be managed properly. Empty contaminated containers larger than 5 gallons must be marked with the word Empty , the date that the container became empty and must be removed from the site within one year of that date. Observed (10) empty 55 gallon drums that previously held hazardous materials or hazardous waste. Per operator the oldest empty drum has been on site for less than 11 months. The violation was corrected at the time of inspection: operator marked all the drums with the word "Empty", and the dates that the drums became empty.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 12-19-2014

FULL-CIRCLE, INC. (Continued) **S105092618**

Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 12/19/2014. Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a)) Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or any unplanned release of hazardous waste to air, soil, or surface water, which could threaten human health or the environment. Any container holding hazardous waste shall be sound and kept closed during storage and transfer unless adding or removing waste. Observed (2) 55 gallon drums of oily water waste with no lids. The violation was corrected at the time of inspection: operator transferred the oily water waste to a sound and closed drum at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	393584
Site Name:	FULL-CIRCLE, INC.
Violation Date:	12-19-2014
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 12/19/2014. Failure to operate and maintain facility to prevent a fire, spill or release (CCR 66265.31) Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or any unplanned release of hazardous waste to air, soil, or surface water, which could threaten human health or the environment. Any container holding hazardous waste shall be sound and kept closed during storage and transfer unless adding or removing waste. Observed (2) 55 gallon drums of oily water waste with no lids. The violation was corrected at the time of inspection: operator transferred the oily water waste to a sound and closed drum at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,
Site ID:	393584
Site Name:	FULL-CIRCLE, INC.
Violation Date:	07-07-2021
Citation:	22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description:	Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes:	Returned to compliance on 07/07/2021. OBSERVATION: At the time of the inspection, observed (1) 55 gallon drum of used oil without a hazardous waste label. CORRECTED ON SITE: Operator corrected the violation by adding a hazardous waste label during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS,

FULL-CIRCLE, INC. (Continued) **S105092618**

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Violation Date: 12-19-2014
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 12/19/2014. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) All containers and tanks used to store a hazardous waste must be labeled or marked with the words hazardous waste; Containers accumulating used oil must be labeled with the words Used Oil, and include the following information: generator name and address, hazardous properties of the waste, composition and physical state of the waste, and the accumulation start date. Observed (1) 55 gallon drum of used oil with damaged and faded hazardous waste labels. The violation was corrected at the time of the inspection: operator added new hazardous waste labels with all the required information to all the hazardous waste drums at the time of the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-19-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-31-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW

FULL-CIRCLE, INC. (Continued) **S105092618**

Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2021
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-19-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Site Address: 4831 NEWTON RD
Site City: YUCCA VALLEY
Site Zip: 92284
Enf Action Date: 12-19-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Site ID: 393584
Site Name: FULL-CIRCLE, INC.
Site Address: 4831 NEWTON RD
Site City: YUCCA VALLEY
Site Zip: 92284
Enf Action Date: 12-19-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS,

Coordinates:
Site ID: 393584
Facility Name: FULL-CIRCLE, INC.
Env Int Type Code: HMBP
Program ID: 10049953
Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 34.165653
Longitude: -116.420792

FULL-CIRCLE, INC. (Continued) **S105092618**

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	RUSSELL SMITH
Entity Title:	Not reported
Affiliation Address:	PO BOX 276
Affiliation City:	NEWBURY PARK
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91319
Affiliation Phone:	,

Affiliation Type Desc:	Operator
Entity Name:	Nathan Heinrich
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(760) 369-1234,

Affiliation Type Desc:	Parent Corporation
Entity Name:	SMITH PRECISION PRODUCTS COMPANY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	PO BOX 276
Affiliation City:	NEWBURY PARK
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91319
Affiliation Phone:	,

Affiliation Type Desc:	Legal Owner
Entity Name:	SMITH, WALTER
Entity Title:	Not reported
Affiliation Address:	PO BOX 276
Affiliation City:	NEWBURY PARK
Affiliation State:	CA

FULL-CIRCLE, INC. (Continued) **S105092618**

Affiliation Country:	United States
Affiliation Zip:	91319
Affiliation Phone:	(805) 498-2589,

A3 **FULL CIRCLE** **RCRA NonGen / NLR** **1024799574**
SSW **4831 NEWTON RD** **E MANIFEST** **CAL000212349**
< 1/8 **YUCCA VALLEY, CA 92286**
0.031 mi.
166 ft. **Site 2 of 6 in cluster A**

Relative: **Higher**
Actual: **3729 ft.**

RCRA Listings:

Date Form Received by Agency:	20000316
Handler Name:	Full Circle
Handler Address:	4831 Newton Rd
Handler City,State,Zip:	YUCCA VALLEY, CA 92286-0000
EPA ID:	CAL000212349
Contact Name:	KAREN BOLYARD
Contact Address:	1299 LAWRENCE DRIVE
Contact City,State,Zip:	NEWBURY PARK, CA 91319
Contact Telephone:	805-498-2589
Contact Fax:	805-499-2867
Contact Email:	SMITHCONTROLLER@AOL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 276
Mailing City,State,Zip:	NEWBURY PARK, CA 91319-0000
Owner Name:	Smith Connectors Inc
Owner Type:	Other
Operator Name:	Karen Bolyard
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline

FULL CIRCLE (Continued) **1024799574**

202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: SMITH CONNECTORS INC	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 276
Owner/Operator City,State,Zip:	NEWBURY PARK, CA 91319-0276
Owner/Operator Telephone:	805-498-2589
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name: KAREN BOLYARD	
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	1299 LAWRENCE DRIVE
Owner/Operator City,State,Zip:	NEWBURY PARK, CA 91319
Owner/Operator Telephone:	805-498-2589
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20000316
Handler Name: FULL CIRCLE	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

FULL CIRCLE (Continued) **1024799574**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 333911
NAICS Description: PUMP AND PUMPING EQUIPMENT MANUFACTURING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

E MANIFEST:
Manifest Tracking Number: 015318172FLE
Last Updated Date: 20210216
Shipped Date: 20201216
Received Date: 20201218
Manifest Status: Signed
Submission Type: DataImage5Copy
Origin Type: Web
Generator EPA ID: CAL000212349
Generator Name: Full Circle
Generator Mail Street Number: Not reported
Generator Mail Street 1: 4831 NEWTON RD
Generator Mail Street 2: Not reported
Generator Mail City: YUCCA VALLEY
Generator Mail State: CA
Generator Mail Zip: 92286-0000
Generator Location Street Number: Not reported
Generator Location Street 1: PO BOX 276
Generator Location Street 2: Not reported
Generator Location City: NEWBURY PARK
Generator Location Zip: 91319-0000
Generator Location State: CA
Generator Contact Company Name: Not reported
Designated Facility EPA ID: AZR000520304
Designated Facility Name: Aa Sydcol Llc
Designated Facility Mail Street Number: Not reported
Designated Facility Mail Street 1: Not reported
Designated Facility Mail Street 2: 3155 GOLDEN WILLOW CT
Designated Facility Mail City: YORBA LINDA
Designated Facility Mail Zip: 92886-1303
Designated Facility Mail State: CA
Designated Facility Location Street Number: Not reported
Designated Facility Location Street 1: 2264 E 13TH ST
Designated Facility Location Street 2: Not reported
Designated Facility Location City: YUMA
Designated Facility Location Zip: 85365-1858
Designated Facility Location State: AZ
Designated Facility Contact Company Name: Not reported

FULL CIRCLE (Continued) **1024799574**

Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	007095874SKS
Last Updated Date:	20190905
Shipped Date:	20190802
Received Date:	20190808
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000212349
Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON ST
Generator Mail Street 2:	Attn Norm Baysinger
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO Box 276
Generator Location Street 2:	Not reported
Generator Location City:	Newbury Park
Generator Location Zip:	91319
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAT000613976
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2120 South Yale Street
Designated Facility Mail City:	Santa Ana
Designated Facility Mail Zip:	92704
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2120 South Yale Street
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Santa Ana
Designated Facility Location Zip:	92704
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Safety-Kleen Systems, Inc.
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	007994441SKS
Last Updated Date:	20210709
Shipped Date:	20210609
Received Date:	20210618
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000212349
Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON ST
Generator Mail Street 2:	Attn Norm Baysinger
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA

FULL CIRCLE (Continued) **1024799574**

Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO Box 276
Generator Location Street 2:	Not reported
Generator Location City:	Newbury Park
Generator Location Zip:	91319
Generator Location State:	CA
Generator Contact Company Name:	Full Circle
Designated Facility EPA ID:	CAT000613976
Designated Facility Name:	Safety-Kleen Systems, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2120 South Yale Street
Designated Facility Mail City:	Santa Ana
Designated Facility Mail Zip:	92704
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2120 South Yale Street
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Santa Ana
Designated Facility Location Zip:	92704
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	007063832SKS
Last Updated Date:	20190828
Shipped Date:	20190513
Received Date:	20190520
Manifest Status:	Corrected
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000212349
Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON ST
Generator Mail Street 2:	Attn Norm Baysinger
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO Box 276
Generator Location Street 2:	Not reported
Generator Location City:	Newbury Park
Generator Location Zip:	91319
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAT000613976
Designated Facility Name:	Not reported
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2120 South Yale Street
Designated Facility Mail City:	Santa Ana
Designated Facility Mail Zip:	92704
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported

FULL CIRCLE (Continued) **1024799574**

Designated Facility Location Street 1:	2120 South Yale Street
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Santa Ana
Designated Facility Location Zip:	92704
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Safety-Kleen Systems, Inc.
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	016034127FLE
Last Updated Date:	20211227
Shipped Date:	20211029
Received Date:	20211112
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAL000212349
Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON RD
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92286-0000
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO BOX 276
Generator Location Street 2:	Not reported
Generator Location City:	NEWBURY PARK
Generator Location Zip:	91319-0000
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520304
Designated Facility Name:	Aa Sydcol Llc
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	3155 GOLDEN WILLOW CT
Designated Facility Mail City:	YORBA LINDA
Designated Facility Mail Zip:	92886-1303
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2264 E 13TH ST
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	YUMA
Designated Facility Location Zip:	85365-1858
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	007348668SKS
Last Updated Date:	20191122
Shipped Date:	20191028
Received Date:	20191101
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000212349

FULL CIRCLE (Continued) **1024799574**

Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON ST
Generator Mail Street 2:	Attn Norm Baysinger
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO Box 276
Generator Location Street 2:	Not reported
Generator Location City:	Newbury Park
Generator Location Zip:	91319
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAT000613976
Designated Facility Name:	Safety-Kleen Systems, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2120 South Yale Street
Designated Facility Mail City:	Santa Ana
Designated Facility Mail Zip:	92704
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2120 South Yale Street
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Santa Ana
Designated Facility Location Zip:	92704
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	007855740SKS
Last Updated Date:	20210413
Shipped Date:	20210319
Received Date:	20210324
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000212349
Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON ST
Generator Mail Street 2:	Attn Norm Baysinger
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO Box 276
Generator Location Street 2:	Not reported
Generator Location City:	Newbury Park
Generator Location Zip:	91319
Generator Location State:	CA
Generator Contact Company Name:	Full Circle
Designated Facility EPA ID:	CAT000613976
Designated Facility Name:	Safety-Kleen Systems, Inc.
Designated Facility Mail Street Number:	Not reported

FULL CIRCLE (Continued) **1024799574**

Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2120 South Yale Street
Designated Facility Mail City:	Santa Ana
Designated Facility Mail Zip:	92704
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2120 South Yale Street
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Santa Ana
Designated Facility Location Zip:	92704
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	017469626FLE
Last Updated Date:	20220525
Shipped Date:	20220414
Received Date:	20220423
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Web
Generator EPA ID:	CAL000212349
Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON RD
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92286-0000
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO BOX 276
Generator Location Street 2:	Not reported
Generator Location City:	NEWBURY PARK
Generator Location Zip:	91319-0000
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000520304
Designated Facility Name:	Aa Sydcol Llc
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	3155 GOLDEN WILLOW CT
Designated Facility Mail City:	YORBA LINDA
Designated Facility Mail Zip:	92886-1303
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2264 E 13TH ST
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	YUMA
Designated Facility Location Zip:	85365-1858
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	008136061SKS
Last Updated Date:	20220719

FULL CIRCLE (Continued) **1024799574**

Shipped Date:	20220606
Received Date:	20220616
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000212349
Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON ST
Generator Mail Street 2:	Attn Norm Baysinger
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO Box 276
Generator Location Street 2:	Not reported
Generator Location City:	Newbury Park
Generator Location Zip:	91319
Generator Location State:	CA
Generator Contact Company Name:	Full Circle
Designated Facility EPA ID:	CAT000613976
Designated Facility Name:	Safety-Kleen Systems, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2120 South Yale Street
Designated Facility Mail City:	Santa Ana
Designated Facility Mail Zip:	92704
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2120 South Yale Street
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Santa Ana
Designated Facility Location Zip:	92704
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	008161936SKS
Last Updated Date:	20211028
Shipped Date:	20210921
Received Date:	20210927
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000212349
Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON ST
Generator Mail Street 2:	Attn Norm Baysinger
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO Box 276
Generator Location Street 2:	Not reported
Generator Location City:	Newbury Park

FULL CIRCLE (Continued) **1024799574**

Generator Location Zip:	91319
Generator Location State:	CA
Generator Contact Company Name:	Full Circle
Designated Facility EPA ID:	CAT000613976
Designated Facility Name:	Safety-Kleen Systems, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2120 South Yale Street
Designated Facility Mail City:	Santa Ana
Designated Facility Mail Zip:	92704
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2120 South Yale Street
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Santa Ana
Designated Facility Location Zip:	92704
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	008326891SKS
Last Updated Date:	20220512
Shipped Date:	20220310
Received Date:	20220315
Manifest Status:	Corrected
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000212349
Generator Name:	Full Circle
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4831 NEWTON ST
Generator Mail Street 2:	Attn Norm Baysinger
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	PO Box 276
Generator Location Street 2:	Not reported
Generator Location City:	Newbury Park
Generator Location Zip:	91319
Generator Location State:	CA
Generator Contact Company Name:	Full Circle
Designated Facility EPA ID:	CAT000613976
Designated Facility Name:	Safety-Kleen Systems, Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	2120 South Yale Street
Designated Facility Mail City:	Santa Ana
Designated Facility Mail Zip:	92704
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	2120 South Yale Street
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	Santa Ana
Designated Facility Location Zip:	92704
Designated Facility Location State:	CA

FULL CIRCLE (Continued) **1024799574**

Designated Facility Contact Company Name: Not reported
Manifest Residue Indicator: N
Rejection Indicator: N

Federal Waste:
Manifest Tracking Number: 006821871SKS
Waste Line Number: 1
Federal Waste Code: D039
Federal Waste: TETRACHLOROETHYLENE

State Waste:
Manifest Tracking Number: 006821871SKS
Waste Line Number: 1
State Waste Code Owner: CA
State Waste Code: 213
State Waste: Hydrocarbon solvents (benzene, hexane, Stoddard, etc.

Transporter:
Manifest Tracking Number: 006821871SKS
Transporter Line Number: 1
Transporter EPA ID: TXR000081205
Transporter Name: Safety-Kleen Systems, Inc.

Manifest Tracking Number: 006821871SKS
Transporter Line Number: 2
Transporter EPA ID: MAD039322250
Transporter Name: Clean Harbors Environmental Services, Inc.

Waste Line:
Manifest Tracking Number: 006821871SKS
Waste Line Number: 1
U.S. DOT Hazardous Indicator: Y
U.S. DOT ID Number: NA1993
U.S. DOT Description: Na1993, Waste Na1993 Waste Combustible Liquid, N.O.S. (Petroleum Naphtha) Pgiii Dot-Sp11606 (D039)(Erg#128), Combustible Liquid, Pg Iii
Non-Hazardous Waste Description: Not reported
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 15
Quantity Unit of Measure Code: G
Quantity Unit of Measure Description: Gallons
Waste Quantity, in Tons: 0.062552124
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.062552124
Waste Quantity, in Kilograms: 56.736656
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 56.736656
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported

FULL CIRCLE (Continued) **1024799574**

Waste Density Unit of Measure Description:	Not reported
Form Code:	Not reported
Form Code Description:	Not reported
Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	Y

Click this hyperlink while viewing on your computer to access
11 additional US EManifest: record(s) in the EDR Site Report.

A4 **FULL CIRCLE** **HWTS** **S113107449**
SSW **4831 NEWTON RD** **HAZNET** **N/A**
< 1/8 **YUCCA VALLEY, CA 92286**
0.031 mi.
166 ft. **Site 3 of 6 in cluster A**

Relative:
Higher

Actual:
3729 ft.

HWTS:

Name:	FULL CIRCLE
Address:	4831 NEWTON RD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92286
EPA ID:	CAL000212349
Inactive Date:	Not reported
Create Date:	03/16/2000
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 276
Mailing Address 2:	Not reported
Mailing City,State,Zip:	NEWBURY PARK, CA 913190276
Owner Name:	SMITH CONNECTORS INC
Owner Address:	PO BOX 276
Owner Address 2:	Not reported
Owner City,State,Zip:	NEWBURY PARK, CA 913190276
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	BETH LEAVITT
Contact Address:	1299 LAWRENCE DRIVE
Contact Address 2:	Not reported
City,State,Zip:	NEWBURY PARK, CA 91319
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.16773
Longitude:	-116.421383

NAICS:

EPA ID:	CAL000212349
Create Date:	2002-03-14 16:36:29.000
NAICS Code:	333911
NAICS Description:	Pump and Pumping Equipment Manufacturing
Issued EPA ID Date:	2000-03-16 00:00:00
Inactive Date:	Not reported
Facility Name:	FULL CIRCLE

FULL CIRCLE (Continued) **S113107449**

Facility Address: 4831 NEWTON RD
Facility Address 2: Not reported
Facility City: YUCCA VALLEY
Facility County: Not reported
Facility State: CA
Facility Zip: 922860000

HAZNET:
Name: FULL CIRCLE
Address: 4831 NEWTON RD
Address 2: Not reported
City,State,Zip: YUCCA VALLEY, CA 922860000
Contact: BETH LEAVITT
Telephone: 8054986616
Mailing Name: Not reported
Mailing Address: PO BOX 276

Year: 2021
Gepaid: CAL000212349
TSD EPA ID: CAT000613976
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.13761

Year: 2021
Gepaid: CAL000212349
TSD EPA ID: AZR000520304
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.91743

Year: 2020
Gepaid: CAL000212349
TSD EPA ID: AZR000520304
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.155

Year: 2020
Gepaid: CAL000212349
TSD EPA ID: CAT000613976
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.1251

Year: 2019
Gepaid: CAL000212349
TSD EPA ID: CAT000613976
CA Waste Code: 213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.18765

FULL CIRCLE (Continued) **S113107449**

Year:	2018
Gepaid:	CAL000212349
TSD EPA ID:	MXC130619001
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.12510
Year:	2018
Gepaid:	CAL000212349
TSD EPA ID:	CAT000613976
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.25020
Year:	2018
Gepaid:	CAL000212349
TSD EPA ID:	MXC130619001
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.69300
Year:	2017
Gepaid:	CAL000212349
TSD EPA ID:	CAT000613976
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.11676
Year:	2017
Gepaid:	CAL000212349
TSD EPA ID:	MXC130619001
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.9174

Click this hyperlink while viewing on your computer to access
29 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Information:

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	7/15/2020
Shipment Date:	7/15/2020
Receipt Date:	7/22/2020
Manifest Number:	007542267SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY, CA 92284
Telephone:	Not reported

FULL CIRCLE (Continued) **S113107449**

Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Safety-Kleen Systems, Inc.
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Clean Harbors Environmental Services, Inc.
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana, CA 92704
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	213 - Not reported
RCRA Code:	D039
Meth Code:	H141 - Not reported
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	6/23/2020
Shipment Date:	6/23/2020
Receipt Date:	7/9/2020
Manifest Number:	014871931FLE
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON RD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92286-0000
Telephone:	Not reported
Contact:	KAREN BOLYARD
Contact Telephone:	805-498-2589
Contact Email:	SMITHCONTROLLER@AOL.COM
Transporter 1 EPA ID:	CAR000287300
Transporter Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAD980585293
Transporter Name 2:	INDUSTRIAL WASTE UTILIZATION
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000520304
TSDF Name:	AA SYDCOL LLC
TSDF Address 1:	2264 E 13TH ST
TSDF Address 2:	Not reported
TSDF City,State,Zip:	YUMA, AZ 85365-1858
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	135 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.462
Waste Quantity:	110
Quantity Unit:	G

FULL CIRCLE (Continued) **S113107449**

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	12/23/2020
Shipment Date:	12/23/2020
Receipt Date:	1/4/2021
Manifest Number:	007847185SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY, CA 92284
Telephone:	Not reported
Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Safety-Kleen Systems, Inc.
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Clean Harbors Environmental Services, Inc.
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana, CA 92704
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	213 - Not reported
RCRA Code:	D039
Meth Code:	H141 - Not reported
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	12/16/2020
Shipment Date:	12/16/2020
Receipt Date:	12/18/2020
Manifest Number:	015318172FLE
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON RD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92286-0000
Telephone:	Not reported
Contact:	KAREN BOLYARD
Contact Telephone:	805-498-2589
Contact Email:	SMITHCONTROLLER@AOL.COM
Transporter 1 EPA ID:	CAR000287300
Transporter Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAD980585293
Transporter Name 2:	INDUSTRIAL WASTE UTILIZATION
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000520304

FULL CIRCLE (Continued) **S113107449**

TSDF Name:	AA SYDCOL LLC
TSDF Address 1:	2264 E 13TH ST
TSDF Address 2:	Not reported
TSDF City,State,Zip:	YUMA, AZ 85365-1858
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	135 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.693
Waste Quantity:	165
Quantity Unit:	G
Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	10/5/2020
Shipment Date:	10/5/2020
Receipt Date:	10/9/2020
Manifest Number:	007785750SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY, CA 92284
Telephone:	Not reported
Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Safety-Kleen Systems, Inc.
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Clean Harbors Environmental Services, Inc.
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana, CA 92704
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	213 - Not reported
RCRA Code:	D039
Meth Code:	H141 - Not reported
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G

Additional Information:

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	7/15/2020
Shipment Date:	7/15/2020
Receipt Date:	7/22/2020
Manifest Number:	007542267SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE

FULL CIRCLE (Continued) **S113107449**

Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY, CA 92284
Telephone:	Not reported
Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Safety-Kleen Systems, Inc.
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Clean Harbors Environmental Services, Inc.
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana, CA 92704
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	213 - Not reported
RCRA Code:	D039
Meth Code:	H141 - Not reported
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	6/23/2020
Shipment Date:	6/23/2020
Receipt Date:	7/9/2020
Manifest Number:	014871931FLE
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON RD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92286-0000
Telephone:	Not reported
Contact:	KAREN BOLYARD
Contact Telephone:	805-498-2589
Contact Email:	SMITHCONTROLLER@AOL.COM
Transporter 1 EPA ID:	CAR000287300
Transporter Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAD980585293
Transporter Name 2:	INDUSTRIAL WASTE UTILIZATION
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000520304
TSDF Name:	AA SYDCOL LLC
TSDF Address 1:	2264 E 13TH ST
TSDF Address 2:	Not reported
TSDF City,State,Zip:	YUMA, AZ 85365-1858
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	135 - Not reported
RCRA Code:	Not reported

FULL CIRCLE (Continued) **S113107449**

Meth Code:	H141 - Not reported
Quantity Tons:	0.462
Waste Quantity:	110
Quantity Unit:	G
Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	12/23/2020
Shipment Date:	12/23/2020
Receipt Date:	1/4/2021
Manifest Number:	007847185SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY, CA 92284
Telephone:	Not reported
Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Safety-Kleen Systems, Inc.
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Clean Harbors Environmental Services, Inc.
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana, CA 92704
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	213 - Not reported
RCRA Code:	D039
Meth Code:	H141 - Not reported
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G
Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	12/16/2020
Shipment Date:	12/16/2020
Receipt Date:	12/18/2020
Manifest Number:	015318172FLE
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON RD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92286-0000
Telephone:	Not reported
Contact:	KAREN BOLYARD
Contact Telephone:	805-498-2589
Contact Email:	SMITHCONTROLLER@AOL.COM
Transporter 1 EPA ID:	CAR000287300
Transporter Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE

FULL CIRCLE (Continued) **S113107449**

Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAD980585293
Transporter Name 2:	INDUSTRIAL WASTE UTILIZATION
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000520304
TSDF Name:	AA SYDCOL LLC
TSDF Address 1:	2264 E 13TH ST
TSDF Address 2:	Not reported
TSDF City,State,Zip:	YUMA, AZ 85365-1858
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	135 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.693
Waste Quantity:	165
Quantity Unit:	G

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	10/5/2020
Shipment Date:	10/5/2020
Receipt Date:	10/9/2020
Manifest Number:	007785750SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY, CA 92284
Telephone:	Not reported
Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Safety-Kleen Systems, Inc.
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Clean Harbors Environmental Services, Inc.
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana, CA 92704
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	213 - Not reported
RCRA Code:	D039
Meth Code:	H141 - Not reported
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G

Additional Information:

Year:	2019
EM Manifest ID:	532920
Shipment Date:	8/2/2019

FULL CIRCLE (Continued) **S113107449**

Shipment Date:	8/2/2019
Receipt Date:	8/8/2019
Manifest Number:	007095874SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY 92284
Telephone:	800-483-3718
Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana 92704
TSDF Telephone:	800-483-3718
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2019
EM Manifest ID:	532920
Generator EPA ID:	CAL000212349
Shipment Date:	2019-08-02
Manifest Number:	007095874SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
Federal Code:	D039

State:

Year:	2019
EM Manifest ID:	532920
Generator EPA ID:	CAL000212349
Shipment Date:	2019-08-02
Manifest Number:	007095874SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255

FULL CIRCLE (Continued) **S113107449**

Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
State Code:	213

Year:	2019
EM Manifest ID:	c1884d9a-b5a6-4357-a2ad-4bbb1ca653f6
Shipment Date:	5/13/2019
Shipment Date:	5/13/2019
Receipt Date:	5/20/2019
Manifest Number:	007063832SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY 92284
Telephone:	800-483-3718
Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana 92704
TSDF Telephone:	800-483-3718
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2019
EM Manifest ID:	c1884d9a-b5a6-4357-a2ad-4bbb1ca653f6
Generator EPA ID:	CAL000212349
Shipment Date:	2019-05-13
Manifest Number:	007063832SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
Federal Code:	D039

FULL CIRCLE (Continued) **S113107449**

State:

Year:	2019
EM Manifest ID:	c1884d9a-b5a6-4357-a2ad-4bbb1ca653f6
Generator EPA ID:	CAL000212349
Shipment Date:	2019-05-13
Manifest Number:	007063832SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
State Code:	213

Year:	2019
EM Manifest ID:	b012c24f-6cfd-4563-af5e-6ef253b65408
Shipment Date:	3/4/2019
Shipment Date:	3/4/2019
Receipt Date:	3/11/2019
Manifest Number:	006850995SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY 92284
Telephone:	800-483-3718
Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana 92704
TSDF Telephone:	800-483-3718
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2019
EM Manifest ID:	b012c24f-6cfd-4563-af5e-6ef253b65408
Generator EPA ID:	CAL000212349
Shipment Date:	2019-03-04

FULL CIRCLE (Continued) **S113107449**

Manifest Number:	006850995SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
Federal Code:	D039

State:

Year:	2019
EM Manifest ID:	b012c24f-6cfd-4563-af5e-6ef253b65408
Generator EPA ID:	CAL000212349
Shipment Date:	2019-03-04
Manifest Number:	006850995SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
State Code:	213

Year:	2019
EM Manifest ID:	261813
Shipment Date:	12/12/2018
Shipment Date:	12/12/2018
Receipt Date:	12/17/2018
Manifest Number:	006821871SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	4831 NEWTON ST
Address 2:	Attn Norm Baysinger
City,State,Zip:	YUCCA VALLEY 92284
Telephone:	800-483-3718
Contact:	Main Contact
Contact Telephone:	760-369-1234
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana 92704
TSDF Telephone:	800-483-3718
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported

FULL CIRCLE (Continued) **S113107449**

RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported

Federal:
Year: 2019
EM Manifest ID: 261813
Generator EPA ID: CAL000212349
Shipment Date: 2018-12-12
Manifest Number: 006821871SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06255
Quantity Waste: 15.000000
Quantity Unit: G
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Gallons
Federal Code: D039

State:
Year: 2019
EM Manifest ID: 261813
Generator EPA ID: CAL000212349
Shipment Date: 2018-12-12
Manifest Number: 006821871SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06255
Quantity Waste: 15.000000
Quantity Unit: G
Number of Containers: 1
Type of Container: Metal drums, barrels, kegs
Quantity Type: Gallons
State Code: 213

Year: 2019
EM Manifest ID: 702577
Shipment Date: 10/28/2019
Shipment Date: 10/28/2019
Receipt Date: 11/1/2019
Manifest Number: 007348668SKS
Generator EPA ID: CAL000212349
Name: FULL CIRCLE
Address: 4831 NEWTON ST
Address 2: Attn Norm Baysinger
City,State,Zip: YUCCA VALLEY 92284
Telephone: 800-483-3718
Contact: Main Contact
Contact Telephone: 760-369-1234
Contact Email: Not reported
Transporter 1 EPA ID: TXR000081205
Transporter Name: Not reported
Transporter 1 Emergency Number: Not reported

FULL CIRCLE (Continued) **S113107449**

Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	Safety-Kleen Systems, Inc.
TSDF Address 1:	2120 South Yale Street
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Santa Ana 92704
TSDF Telephone:	800-483-3718
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2019
EM Manifest ID:	702577
Generator EPA ID:	CAL000212349
Shipment Date:	2019-10-28
Manifest Number:	007348668SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
Federal Code:	D039

State:

Year:	2019
EM Manifest ID:	702577
Generator EPA ID:	CAL000212349
Shipment Date:	2019-10-28
Manifest Number:	007348668SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Gallons
State Code:	213

Additional Information:

Year:	2018
EM Manifest ID:	006050090SKS20170728_D_1
Shipment Date:	7/28/2017
Shipment Date:	7/28/2017
Receipt Date:	8/4/2017
Manifest Number:	006050090SKS

FULL CIRCLE (Continued) **S113107449**

Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2018
EM Manifest ID:	006050090SKS20170728_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2017-07-28
Manifest Number:	006050090SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.02085
Quantity Waste:	5.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D039

State:

Year:	2018
EM Manifest ID:	006050090SKS20170728_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2017-07-28
Manifest Number:	006050090SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.02085
Quantity Waste:	5.000000
Quantity Unit:	G
Number of Containers:	1

FULL CIRCLE (Continued) **S113107449**

Type of Container: NULL
Quantity Type: NULL
State Code: 213

Year: 2018
EM Manifest ID: 006098567SKS20180628_D_1
Shipment Date: 6/28/2018
Shipment Date: 6/28/2018
Receipt Date: 6/7/2018
Manifest Number: 006098567SKS
Generator EPA ID: CAL000212349
Name: FULL CIRCLE
Address: Not reported
Address 2: Not reported
City,State,Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Contact Email: Not reported
Transporter 1 EPA ID: TXR000081205
Transporter Name: Not reported
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: MAD039322250
Transporter Name 2: Not reported
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: CAT000613976
TSDF Name: SAFETY-KLEEN SYSTEMS INC
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City,State,Zip: Not reported
TSDF Telephone: Not reported
TSDFA EPA ID: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported

Federal:
Year: 2018
EM Manifest ID: 006098567SKS20180628_D_1
Generator EPA ID: CAL000212349
Shipment Date: 2018-06-28
Manifest Number: 006098567SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06255
Quantity Waste: 15.000000
Quantity Unit: G
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D039

State:

FULL CIRCLE (Continued) **S113107449**

Year:	2018
EM Manifest ID:	006098567SKS20180628_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2018-06-28
Manifest Number:	006098567SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	213

Year:	2018
EM Manifest ID:	009786492FLE20170515_D_1
Shipment Date:	5/15/2017
Shipment Date:	5/15/2017
Receipt Date:	5/25/2017
Manifest Number:	009786492FLE
Generator EPA ID:	CAL000212349
Name:	FULL CIROLE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	CAR000176826
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000163824
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	MXC130619001
TSDF Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2018
EM Manifest ID:	009786492FLE20170515_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2017-05-15
Manifest Number:	009786492FLE
Line Number:	1

FULL CIRCLE (Continued) **S113107449**

Method Code:	H039
Quantity Tons:	0.91740
Quantity Waste:	220.000000
Quantity Unit:	G
Number of Containers:	4
Type of Container:	NULL
Quantity Type:	NULL
State Code:	223

Year:	2018
EM Manifest ID:	006371655SKS20180404_D_1
Shipment Date:	4/4/2018
Shipment Date:	4/4/2018
Receipt Date:	4/10/2018
Manifest Number:	006371655SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2018
EM Manifest ID:	006371655SKS20180404_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2018-04-04
Manifest Number:	006371655SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL

FULL CIRCLE (Continued) **S113107449**

Quantity Type: NULL
Federal Code: D039

State:
Year: 2018
EM Manifest ID: 006371655SKS20180404_D_1
Generator EPA ID: CAL000212349
Shipment Date: 2018-04-04
Manifest Number: 006371655SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06255
Quantity Waste: 15.000000
Quantity Unit: G
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 213

Year: 2018
EM Manifest ID: 011128856FLE20180430_D_1
Shipment Date: 4/30/2018
Shipment Date: 4/30/2018
Receipt Date: 5/10/2018
Manifest Number: 011128856FLE
Generator EPA ID: CAL000212349
Name: FULL CIRCLE
Address: Not reported
Address 2: Not reported
City,State,Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Contact Email: Not reported
Transporter 1 EPA ID: CAR000176826
Transporter Name: Not reported
Transporter 1 Emergency Number: Not reported
Transporter 2 EPA ID: CAR000194217
Transporter Name 2: Not reported
Transporter 2 Emergency Number: Not reported
TSDF EPA ID: MXC130619001
TSDF Name: RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City,State,Zip: Not reported
TSDF Telephone: Not reported
TSDFA EPA ID: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported

State:
Year: 2018

FULL CIRCLE (Continued) **S113107449**

EM Manifest ID:	011128856FLE20180430_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2018-04-30
Manifest Number:	011128856FLE
Line Number:	1
Method Code:	H039
Quantity Tons:	0.12510
Quantity Waste:	30.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	223

Year:	2018
EM Manifest ID:	011128856FLE20180430_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2018-04-30
Manifest Number:	011128856FLE
Line Number:	2
Method Code:	H039
Quantity Tons:	0.69300
Quantity Waste:	165.000000
Quantity Unit:	G
Number of Containers:	3
Type of Container:	NULL
Quantity Type:	NULL
State Code:	135

Year:	2018
EM Manifest ID:	005767840SKS20170208_D_1
Shipment Date:	2/8/2017
Shipment Date:	2/8/2017
Receipt Date:	2/14/2017
Manifest Number:	005767840SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported

FULL CIRCLE (Continued) **S113107449**

TSDFA EPA ID: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported

Federal:
Year: 2018
EM Manifest ID: 005767840SKS20170208_D_1
Generator EPA ID: CAL000212349
Shipment Date: 2017-02-08
Manifest Number: 005767840SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.03336
Quantity Waste: 8.000000
Quantity Unit: G
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D039

State:
Year: 2018
EM Manifest ID: 005767840SKS20170208_D_1
Generator EPA ID: CAL000212349
Shipment Date: 2017-02-08
Manifest Number: 005767840SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.03336
Quantity Waste: 8.000000
Quantity Unit: G
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 213

Year: 2018
EM Manifest ID: 010966940FLE20171108_D_1
Shipment Date: 11/8/2017
Shipment Date: 11/8/2017
Receipt Date: 12/7/2017
Manifest Number: 010966940FLE
Generator EPA ID: CAL000212349
Name: FULL CIRCLE
Address: Not reported
Address 2: Not reported
City,State,Zip: Not reported
Telephone: Not reported
Contact: Not reported
Contact Telephone: Not reported
Contact Email: Not reported
Transporter 1 EPA ID: CAR000176826

FULL CIRCLE (Continued) **S113107449**

Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000194217
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	MXC130619001
TSDF Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2018
EM Manifest ID:	010966940FLE20171108_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2017-11-08
Manifest Number:	010966940FLE
Line Number:	1
Method Code:	H039
Quantity Tons:	1.14675
Quantity Waste:	275.000000
Quantity Unit:	G
Number of Containers:	5
Type of Container:	NULL
Quantity Type:	NULL
State Code:	223

Year:	2018
EM Manifest ID:	006347774SKS20171019_D_1
Shipment Date:	10/19/2017
Shipment Date:	10/19/2017
Receipt Date:	10/31/2017
Manifest Number:	006347774SKS
Generator EPA ID:	CAL000212349
Name:	FULL CIRCLE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976

FULL CIRCLE (Continued) **S113107449**

TSDF Name: SAFETY-KLEEN SYSTEMS INC
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City,State,Zip: Not reported
TSDF Telephone: Not reported
TSDFA EPA ID: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported

Federal:
Year: 2018
EM Manifest ID: 006347774SKS20171019_D_1
Generator EPA ID: CAL000212349
Shipment Date: 2017-10-19
Manifest Number: 006347774SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06255
Quantity Waste: 15.000000
Quantity Unit: G
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
Federal Code: D039

State:
Year: 2018
EM Manifest ID: 006347774SKS20171019_D_1
Generator EPA ID: CAL000212349
Shipment Date: 2017-10-19
Manifest Number: 006347774SKS
Line Number: 1
Method Code: H141
Quantity Tons: 0.06255
Quantity Waste: 15.000000
Quantity Unit: G
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 213

Year: 2018
EM Manifest ID: 006528176SKS20180111_D_1
Shipment Date: 1/11/2018
Shipment Date: 1/11/2018
Receipt Date: 1/17/2018
Manifest Number: 006528176SKS
Generator EPA ID: CAL000212349
Name: FULL CIRCLE
Address: Not reported
Address 2: Not reported
City,State,Zip: Not reported

FULL CIRCLE (Continued) **S113107449**

Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	TXR000081205
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	MAD039322250
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAT000613976
TSDF Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

Federal:

Year:	2018
EM Manifest ID:	006528176SKS20180111_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2018-01-11
Manifest Number:	006528176SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
Federal Code:	D039

State:

Year:	2018
EM Manifest ID:	006528176SKS20180111_D_1
Generator EPA ID:	CAL000212349
Shipment Date:	2018-01-11
Manifest Number:	006528176SKS
Line Number:	1
Method Code:	H141
Quantity Tons:	0.06255
Quantity Waste:	15.000000
Quantity Unit:	G
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	213

FULL CIRCLE (Continued) **S113107449**

Additional Information:

Year:	2017
Gen EPA ID:	CAL000212349
Shipment Date:	20171108
Creation Date:	10/30/2018 18:30:15
Receipt Date:	20171207
Manifest ID:	010966940FLE
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000194217
Trans 2 Name:	TEMARRY RECYCLING INC
TSDF EPA ID:	MXC130619001
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.14675
Waste Quantity:	275
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171019
Creation Date:	7/10/2018 18:30:24
Receipt Date:	20171031
Manifest ID:	006347774SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170728
Creation Date:	7/16/2018 18:31:15
Receipt Date:	20170804

FULL CIRCLE (Continued) **S113107449**

Manifest ID:	006050090SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBOR
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.02085
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170515
Creation Date:	7/20/2018 18:30:15
Receipt Date:	20170525
Manifest ID:	009786492FLE
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000163824
Trans 2 Name:	TRIMSA USA INC
TSDF EPA ID:	MXC130619001
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170208
Creation Date:	5/9/2018 18:32:07
Receipt Date:	20170214
Manifest ID:	005767840SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	MAD039322250
Trans 2 Name:	CLEAN HARBORS ENVIRONMENTAL SERVICE INC
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC

FULL CIRCLE (Continued) **S113107449**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2016
Gen EPA ID:	CAL000212349
Shipment Date:	20150910
Creation Date:	2/26/2016 22:15:47
Receipt Date:	20150915
Manifest ID:	005038363SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150826
Creation Date:	2/9/2016 22:16:04
Receipt Date:	20150909
Manifest ID:	000197951MWI
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000194217
Trans 2 Name:	TEMARRY RECYCLING INC
TSDF EPA ID:	MXC130619001
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste

FULL CIRCLE (Continued) **S113107449**

RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.0425
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150627
Creation Date:	1/19/2016 22:15:36
Receipt Date:	20150630
Manifest ID:	004942047SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150423
Creation Date:	11/17/2015 22:15:32
Receipt Date:	20150512
Manifest ID:	000119456MWI
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000194217
Trans 2 Name:	TEMARRY RECYCLING INC
TSDF EPA ID:	MXC130619001
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported

FULL CIRCLE (Continued) **S113107449**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150408
Creation Date:	9/11/2015 22:15:47
Receipt Date:	20150415
Manifest ID:	004901897SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150113
Creation Date:	7/9/2015 22:15:09
Receipt Date:	20150123
Manifest ID:	004618266SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2015

FULL CIRCLE (Continued) **S113107449**

Gen EPA ID:	CAL000212349
Shipment Date:	20150910
Creation Date:	2/26/2016 22:15:47
Receipt Date:	20150915
Manifest ID:	005038363SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150826
Creation Date:	2/9/2016 22:16:04
Receipt Date:	20150909
Manifest ID:	000197951MWI
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000194217
Trans 2 Name:	TEMARRY RECYCLING INC
TSDF EPA ID:	MXC130619001
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.0425
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150627
Creation Date:	1/19/2016 22:15:36
Receipt Date:	20150630
Manifest ID:	004942047SKS
Trans EPA ID:	TXR000081205

FULL CIRCLE (Continued) **S113107449**

Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150423
Creation Date:	11/17/2015 22:15:32
Receipt Date:	20150512
Manifest ID:	000119456MWI
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000194217
Trans 2 Name:	TEMARRY RECYCLING INC
TSDF EPA ID:	MXC130619001
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.9174
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150408
Creation Date:	9/11/2015 22:15:47
Receipt Date:	20150415
Manifest ID:	004901897SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

FULL CIRCLE (Continued) **S113107449**

Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150113
Creation Date:	7/9/2015 22:15:09
Receipt Date:	20150123
Manifest ID:	004618266SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613976
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2014
Gen EPA ID:	CAL000212349
Shipment Date:	20140904
Creation Date:	6/24/2015 22:15:33
Receipt Date:	20140918
Manifest ID:	007682571FLE
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000163824
Trans 2 Name:	TRIMSA USA INC
TSDF EPA ID:	MXC130619001
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery

FULL CIRCLE (Continued) **S113107449**

Quantity Tons:	0.834
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140716
Creation Date:	9/13/2014 22:15:14
Receipt Date:	20140731
Manifest ID:	004307692SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140528
Creation Date:	11/2/2014 22:15:05
Receipt Date:	20140610
Manifest ID:	000197837MWI
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000163824
Trans 2 Name:	TRIMSA USA INC
TSDF EPA ID:	MXC130619001
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.68805
Waste Quantity:	165
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

FULL CIRCLE (Continued) **S113107449**

Shipment Date:	20140121
Creation Date:	4/5/2014 22:15:21
Receipt Date:	20140202
Manifest ID:	004072430SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD044429835
Trans Name:	CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2013
Gen EPA ID:	CAL000212349
Shipment Date:	20131209
Creation Date:	5/14/2014 22:14:54
Receipt Date:	20131216
Manifest ID:	000196828MWI
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000163824
Trans 2 Name:	TRIMSA USA INC
TSDF EPA ID:	MXC130619001
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.4587
Waste Quantity:	110
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20131014
Creation Date:	2/24/2014 22:15:07
Receipt Date:	20131016
Manifest ID:	003745287SKS

FULL CIRCLE (Continued) **S113107449**

Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.06255
Waste Quantity:	15
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130725
Creation Date:	11/20/2013 22:15:20
Receipt Date:	20130729
Manifest ID:	003693583SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130605
Creation Date:	10/30/2013 22:15:21
Receipt Date:	20130620
Manifest ID:	000165950MWI
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000163824
Trans 2 Name:	TRIMSA USA INC
TSDF EPA ID:	02-IV-99-10
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported

FULL CIRCLE (Continued) **S113107449**

TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H020 - Solvents Recovery
Quantity Tons:	0.22935
Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130501
Creation Date:	9/28/2013 22:15:06
Receipt Date:	20130506
Manifest ID:	003379051SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130206
Creation Date:	7/9/2013 22:15:05
Receipt Date:	20130212
Manifest ID:	003680272SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G

FULL CIRCLE (Continued) **S113107449**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2012
Gen EPA ID:	CAL000212349
Shipment Date:	20121018
Creation Date:	3/21/2013 22:15:13
Receipt Date:	20121024
Manifest ID:	003429487SKS
Trans EPA ID:	TXR000081205
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120920
Creation Date:	8/17/2013 22:15:07
Receipt Date:	20120926
Manifest ID:	000119893MWI
Trans EPA ID:	CAR000176826
Trans Name:	HCI ENVIRONMENTAL & ENGINEERING SERVICE
Trans 2 EPA ID:	CAR000163824
Trans 2 Name:	TRIMSA USA
TSDF EPA ID:	02-IV-99-10
Trans Name:	RECICLADORA TEMARRY DE MEXICO SA DE CV
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.417
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

FULL CIRCLE (Continued) **S113107449**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120725
Creation Date:	12/29/2012 22:15:14
Receipt Date:	20120801
Manifest ID:	003057991SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.0417
Waste Quantity:	10
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120501
Creation Date:	5/24/2013 22:15:07
Receipt Date:	20120508
Manifest ID:	003346050SKS
Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120210
Creation Date:	7/16/2012 20:30:09
Receipt Date:	20120216
Manifest ID:	003037194SKS

FULL CIRCLE (Continued) **S113107449**

Trans EPA ID:	TXR000050930
Trans Name:	SAFETY-KLEEN SYSTEMS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613893
Trans Name:	SAFETY-KLEEN SYSTEMS INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, etc.
RCRA Code:	D039
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.03336
Waste Quantity:	8
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

A5 **VISTA AUTO TRUCK** **HWTS** **S123766098**
SSW **4828 NEWTON** **HAZNET** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284**
0.035 mi.
187 ft. **Site 4 of 6 in cluster A**

Relative:
Higher

Actual:
3735 ft.

HWTS:

Name:	VISTA AUTO TRUCK
Address:	4828 NEWTON
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAL000036349
Inactive Date:	06/30/1998
Create Date:	07/05/1990
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	7361 AVALON AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	YUCCA VALLEY, CA 922846076
Owner Name:	DETHERAGE RON
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	Not reported
Contact Address:	INACT PER 98VQ FINAL NOTICE
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.167742
Longitude:	-116.421383

VISTA AUTO TRUCK (Continued) **S123766098**

HAZNET:

Name:	VISTA AUTO TRUCK
Address:	4828 NEWTON
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 922840000
Contact:	--
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	7361 AVALON AVE
Year:	1991
Gepaid:	CAL000036349
TSD EPA ID:	CAD088838222
CA Waste Code:	343 - Unspecified organic liquid mixture
Disposal Method:	R01 - Recycler
Tons:	0.271

A6 **CRAFTSMANS RV TRUCK & AUTO RPR** **HWTS** **S113164131**
SSW **4828 NEWTON LANE** **HAZNET** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284**
0.035 mi.
187 ft. **Site 5 of 6 in cluster A**

Relative:
Higher

Actual:
3735 ft.

HWTS:

Name:	CRAFTSMANS RV TRUCK & AUTO RPR
Address:	4828 NEWTON LANE
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAL913243298
Inactive Date:	06/30/2002
Create Date:	11/20/1991
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 189
Mailing Address 2:	Not reported
Mailing City,State,Zip:	YUCCA VALLEY, CA 922860189
Owner Name:	JILYN CRAWFORD
Owner Address:	PO BOX 189
Owner Address 2:	Not reported
Owner City,State,Zip:	YUCCA VALLEY, CA 922860189
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	JILYN CRAWFORD
Contact Address:	PO BOX 189
Contact Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 922860000
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.167764
Longitude:	-116.421416

NAICS:

EPA ID:	CAL913243298
Create Date:	2002-03-14 16:36:30.000

CRAFTSMANS RV TRUCK & AUTO RPR (Continued) **S113164131**

NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	1991-11-20 00:00:00
Inactive Date:	2002-06-30 00:00:00
Facility Name:	CRAFTSMANS RV TRUCK & AUTO RPR
Facility Address:	4828 NEWTON LANE
Facility Address 2:	Not reported
Facility City:	YUCCA VALLEY
Facility County:	Not reported
Facility State:	CA
Facility Zip:	922840000

HAZNET:

Name:	CRAFTSMANS RV TRUCK & AUTO RPR
Address:	4828 NEWTON LANE
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 922840000
Contact:	JILYN CRAWFORD
Telephone:	7602204543
Mailing Name:	Not reported
Mailing Address:	PO BOX 189
Year:	2002
Gepaid:	CAL913243298
TSD EPA ID:	CAT080013352
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	R01 - Recycler
Tons:	0.834
Year:	2002
Gepaid:	CAL913243298
TSD EPA ID:	CAT080013352
CA Waste Code:	135 - Unspecified aqueous solution
Disposal Method:	R01 - Recycler
Tons:	0.21

Additional Information:

Year:	2002
Gen EPA ID:	CAL913243298
Shipment Date:	20020325
Creation Date:	7/9/2002 18:31:13
Receipt Date:	20020403
Manifest ID:	21362389
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	135 - Unspecified aqueous solution
RCRA Code:	D001

CRAFTSMANS RV TRUCK & AUTO RPR (Continued) **S113164131**

Meth Code:	R01 - Recycler
Quantity Tons:	0.21
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020325
Creation Date:	7/9/2002 18:31:13
Receipt Date:	20020403
Manifest ID:	21362389
Trans EPA ID:	CAD028277036
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.834
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

A7 **CS BEAMAN INC DBA MESA GARAGE** **HWTS** **S124890230**
SSW **4828 NEWTON ST** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284**
0.037 mi.
195 ft. **Site 6 of 6 in cluster A**

Relative: HWTS:
Higher

Actual: Name:	CS BEAMAN INC DBA MESA GARAGE
3734 ft. Address:	4828 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAL000373050
Inactive Date:	06/30/2013
Create Date:	03/26/2012
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	3632 RUIDOSA AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	YUCCA VALLEY, CA 922840000
Owner Name:	CS BEAMAN INC
Owner Address:	3632 RUIDOSA AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	YUCCA VALLEY, CA 922840000
Owner Phone:	Not reported

CS BEAMAN INC DBA MESA GARAGE (Continued) **S124890230**

Owner Fax:	Not reported
Contact Name:	SHAWN MCEACHERN
Contact Address:	4828 NEWTON ST
Contact Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 922840000
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.16691707
Longitude:	-116.4214911

NAICS:

EPA ID:	CAL000373050
Create Date:	2012-03-26 14:14:33.937
NAICS Code:	811111
NAICS Description:	General Automotive Repair
Issued EPA ID Date:	2012-03-26 14:14:33.92300
Inactive Date:	2013-06-30 00:00:00
Facility Name:	CS BEAMAN INC DBA MESA GARAGE
Facility Address:	4828 NEWTON ST
Facility Address 2:	Not reported
Facility City:	YUCCA VALLEY
Facility County:	Not reported
Facility State:	CA
Facility Zip:	92284

8
West
< 1/8
0.104 mi.
548 ft.

Relative:
Higher

Actual:
3748 ft.

AMERIGAS PROPANE
4785 OLD WOMAN SPRINGS RD
YUCCA VALLEY, CA 92284

AST **S106718532**
EMI **N/A**
HWTS
HAZNET
San Bern. Co. Permit
CERS

AST:

Name:	AMERIGAS PROPANE
Address:	4785 OLD WOMAN SPRINGS RD
City/Zip:	YUCCA VALLEY,92284
Certified Unified Program Agencies:	Not reported
Owner:	AMERIGAS PROPANE, L.P.
Total Gallons:	Not reported
CERSID:	10049956
Facility ID:	FA0009443
Business Name:	AMERIGAS
Phone:	(760) 228-1888
Fax:	(760) 228-1880
Mailing Address:	55596 Yucca Trail
Mailing Address City:	YUCCA VALLEY
Mailing Address State:	CA
Mailing Address Zip Code:	92284
Operator Name:	Ron Taylor
Operator Phone:	(760) 228-1888
Owner Phone:	(610) 337-7000
Owner Mail Address:	P.O. BOX 965
Owner State:	PA
Owner Zip Code:	19482

AMERIGAS PROPANE (Continued) **S106718532**

Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

EMI:

Name:	G AND K PROPANE 1121 - OLD WOMAN SPRINGS
Address:	4785 OLD WOMAN SPRINGS ROAD
City,State,Zip:	YUCCA VALLEY, CA 92284
Year:	2020
County Code:	36
Air Basin:	MD
Facility ID:	3699
Air District Name:	MOJ
SIC Code:	5984
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.3426573427e-006
Reactive Organic Gases Tons/Yr:	5.25e-006
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	G AND K PROPANE 1121 - OLD WOMAN SPRINGS
Address:	4785 OLD WOMAN SPRINGS ROAD
City,State,Zip:	YUCCA VALLEY, CA 92284
Year:	2021
County Code:	36
Air Basin:	MD
Facility ID:	3699
Air District Name:	MOJ
SIC Code:	5984
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	7.3426573427e-006
Reactive Organic Gases Tons/Yr:	5.25e-006
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

Name:	G AND K PROPANE 1121 - OLD WOMAN SPRINGS
Address:	4785 OLD WOMAN SPRINGS ROAD
City,State,Zip:	YUCCA VALLEY, CA 92284
Year:	2022
County Code:	36
Air Basin:	MD

AMERIGAS PROPANE (Continued) **S106718532**

Facility ID:	3699
Air District Name:	MOJ
SIC Code:	5984
Air District Name:	MOJAVE DESERT AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	.000007342657342657342657
Reactive Organic Gases Tons/Yr:	5.25e-006
Carbon Monoxide Emissions Tons/Yr:	Not reported
NOX - Oxides of Nitrogen Tons/Yr:	Not reported
SOX - Oxides of Sulphur Tons/Yr:	Not reported
Particulate Matter Tons/Yr:	Not reported
Part. Matter 10 Micrometers and Smllr Tons/Yr:	Not reported

HWTS:

Name:	AMERIGAS PROPANE
Address:	4785 OLD WOMAN SPRINGS RD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAC002740661
Inactive Date:	11/14/2013
Create Date:	08/15/2013
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	55596 YUCCA TRL
Mailing Address 2:	Not reported
Mailing City,State,Zip:	YUCCA VALLEY, CA 922847811
Owner Name:	AMERIGAS PROPANE
Owner Address:	460 N GULPH RD
Owner Address 2:	Not reported
Owner City,State,Zip:	KING OF PRUSSIA, PA 194062815
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	BOB CASSIDY
Contact Address:	55596 YUCCA TRL
Contact Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 922847811
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	TEMPORARY
Category:	STATE
Latitude:	34.16674
Longitude:	-116.42284

NAICS:

EPA ID:	CAC002740661
Create Date:	2013-08-15 15:54:53.220
NAICS Code:	454312
NAICS Description:	Liquefied Petroleum Gas (Bottled Gas) Dealers
Issued EPA ID Date:	2013-08-15 15:54:53.23000
Inactive Date:	2013-11-14 15:54:53.22000
Facility Name:	AMERIGAS PROPANE
Facility Address:	4785 OLD WOMAN SPRINGS RD
Facility Address 2:	Not reported
Facility City:	YUCCA VALLEY
Facility County:	Not reported

AMERIGAS PROPANE (Continued) **S106718532**

Facility State: CA
Facility Zip: 922842025

HAZNET:
Name: AMERIGAS PROPANE
Address: 4785 OLD WOMAN SPRINGS RD
Address 2: Not reported
City,State,Zip: YUCCA VALLEY, CA 922842025
Contact: BOB CASSIDY
Telephone: 7602281888
Mailing Name: Not reported
Mailing Address: 55596 YUCCA TRL

Year: 2013
Gepaid: CAC002740661
TSD EPA ID: CAD028409019
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0495

Additional Information:
Year: 2013
Gen EPA ID: CAC002740661

Shipment Date: 20130819
Creation Date: 10/16/2013 22:15:14
Receipt Date: 20130823
Manifest ID: 011294238JJK
Trans EPA ID: CAT080012800
Trans Name: HAZ MAT TRANS INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD028409019
Trans Name: CROSBY & OVERTON
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 331 - Off-specification, aged, or surplus organics
RCRA Code: D018
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0495
Waste Quantity: 15
Quantity Unit: G
Additional Code 1: D001
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

San Bern. Co. Permit:
Name: AMERIGAS PROPANE
Address: 4785 OLD WOMAN SPRINGS RD
City,State,Zip: YUCCA VALLEY, CA 92284

AMERIGAS PROPANE (Continued) **S106718532**

Region: SAN BERNARDINO
Facility ID: FA0009443
Owner: AMERIGAS PROPANE
Permit Number: PT0016137
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 01/31/2024

Name: AMERIGAS PROPANE
Address: 4785 OLD WOMAN SPRINGS RD
City,State,Zip: YUCCA VALLEY, CA 92284
Region: SAN BERNARDINO
Facility ID: FA0009443
Owner: AMERIGAS PROPANE
Permit Number: PT0016138
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 01/31/2014

CERS:
Name: AMERIGAS PROPANE
Address: 4785 OLD WOMAN SPRINGS RD
City,State,Zip: YUCCA VALLEY, CA 92284
Site ID: 385087
CERS ID: 10049956
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 385087
Site Name: AMERIGAS PROPANE
Violation Date: 07-23-2013
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 08/22/2013.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 385087
Site Name: AMERIGAS PROPANE
Violation Date: 03-25-2022
Citation: Un-Specified
Violation Description: Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes: Returned to compliance on 03/25/2022. OBSERVATION: This facility stores hazardous materials in reportable threshold quantities. At the time of the inspection, this facility did not have a valid CUPA Hazardous Materials Handlers permit. Permit expired 01/31/2022. During today's inspection, Christine Rodgers renewed the facility's permit through the county's online payment portal.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

AMERIGAS PROPANE (Continued) **S106718532**

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-23-2013
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 10-23-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-01-2016
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION FOR AMERIGAS IN YUCCA VALLEY
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-25-2022
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Enforcement Action:
Site ID: 385087
Site Name: AMERIGAS PROPANE
Site Address: 4785 OLD WOMAN SPRINGS RD
Site City: YUCCA VALLEY
Site Zip: 92284
Enf Action Date: 07-23-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS,

Coordinates:
Site ID: 385087
Facility Name: AMERIGAS PROPANE
Env Int Type Code: HMBP
Program ID: 10049956

AMERIGAS PROPANE (Continued) **S106718532**

Coord Name: Not reported
Ref Point Type Desc: Unknown,
Latitude: 34.166744
Longitude: -116.422844

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: Christine Rodgers
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Legal Owner
Entity Name: AMERIGAS PROPANE, L.P.
Entity Title: Not reported
Affiliation Address: 460 N Gulph Rd
Affiliation City: King Of Prussia
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 19406
Affiliation Phone: (610) 337-7000,

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401,

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 45080 Golf Center Pkwy Ste A
Affiliation City: Indio
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92201
Affiliation Phone: ,

Affiliation Type Desc: Identification Signer
Entity Name: Christine Rodgers
Entity Title: Assistant Territory Manager
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: ,

Affiliation Type Desc: Parent Corporation

AMERIGAS PROPANE (Continued) **S106718532**

Entity Name:	amerigas
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Property Owner
Entity Name:	AmeriGas Propane
Entity Title:	Not reported
Affiliation Address:	460 N Gulph RD
Affiliation City:	King Of Prussia
Affiliation State:	PA
Affiliation Country:	United States
Affiliation Zip:	19406
Affiliation Phone:	(610) 337-7000,
Affiliation Type Desc:	Environmental Contact
Entity Name:	Chrisrtine Rodgers
Entity Title:	Not reported
Affiliation Address:	45900 Commerce St Ste 1
Affiliation City:	Indio
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92201
Affiliation Phone:	,
Affiliation Type Desc:	Operator
Entity Name:	Christine Rodgers
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(951) 428-9935,

B9 **BURRTEC YUCCA VALLEY** **AST** **S104772220**
SSW **4878 NEWTON RD** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284**
0.111 mi.
587 ft. **Site 1 of 7 in cluster B**

Relative:
Higher

Actual:
3735 ft.

AST:

Name:	BURRTEC YUCCA VALLEY
Address:	4878 NEWTON RD.
City/Zip:	YUCCA VALLEY,
Certified Unified Program Agencies:	San Bernardino
Owner:	BURRTEC WASTE AND RECYCLING
Total Gallons:	2,240
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported

BURRTEC YUCCA VALLEY (Continued) **S104772220**

Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

Name:	BURRTEC YUCCA VALLEY
Address:	4878 NEWTON RD
City/Zip:	YUCCA VALLEY,92284
Certified Unified Program Agencies:	Not reported
Owner:	BURRTEC WASTE AND RECYCLING
Total Gallons:	Not reported
CERSID:	10046575
Facility ID:	FA0007226
Business Name:	Burrtec Waste Industries, Inc.
Phone:	(760) 365-4152
Fax:	(760) 365-0160
Mailing Address:	4878 NEWTON RD
Mailing Address City:	YUCCA VALLEY
Mailing Address State:	CA
Mailing Address Zip Code:	92284
Operator Name:	Burrtec Waste & Recycling Services
Operator Phone:	(760) 365-4152
Owner Phone:	(760) 340-2113
Owner Mail Address:	41575 ECLECTIC ST
Owner State:	CA
Owner Zip Code:	92260
Owner Country:	United States
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	CAL000305622

B10 **BURRTEC YUCCA VALLEY YARD** **NPDES** **S113018308**
SSW **4878 NEWTON RD** **San Bern. Co. Permit** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284** **CIWQS**
0.111 mi. **CERS**
587 ft. **Site 2 of 7 in cluster B**

Relative:
Higher

Actual:
3735 ft.

NPDES:

Name:	BURRTEC YUCCA VALLEY YARD
Address:	4878 NEWTON RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Facility Status:	Terminated
NPDES Number:	CAS000001
Region:	7
Agency Number:	0
Regulatory Measure ID:	303932
Place ID:	Not reported
Order Number:	97-03-DWQ
WDID:	7 36I020267
Regulatory Measure Type:	Enrollee
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/05/2006
Termination Date Of Regulatory Measure:	07/13/2023
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	41575 Eclectic St
Discharge Name:	Burrtec Waste Recycling Services
Discharge City:	Palm Desert
Discharge State:	California
Discharge Zip:	92260
Status:	Not reported
Status Date:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	7
Regulatory Measure ID:	303932
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	7 36I020267
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	06/05/2006
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Burrtec Waste Recycling Services
Discharge Address:	41575 Eclectic St
Discharge City:	Palm Desert
Discharge State:	California
Discharge Zip:	92260
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported

BURRTEC YUCCA VALLEY YARD (Continued) **S113018308**

Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported

BURRTEC YUCCA VALLEY YARD (Continued) **S113018308**

Region:	7
Regulatory Measure ID:	303932
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	7 36I020267
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	06/05/2006
Status:	Active
Status Date:	06/05/2006
Place Size:	1
Place Size Unit:	Acres
Contact:	Frank Orlett
Contact Title:	District manager
Contact Phone:	760-578-5981
Contact Phone Ext:	Not reported
Contact Email:	Forlett@burrtecdesert.com
Operator Name:	Burrtec Waste Recycling Services
Operator Address:	41575 Eclectic St
Operator City:	Palm Desert
Operator State:	California
Operator Zip:	92260
Operator Contact:	Gary Koontz
Operator Contact Title:	Facility Project Manager
Operator Contact Phone:	909-429-4200
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	gkoontz@burrtec.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported

BURRTEC YUCCA VALLEY YARD (Continued) **S113018308**

Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Whitewater River
Certifier:	Gary Koontz
Certifier Title:	Facility Project Manager
Certification Date:	04-MAR-15
Primary Sic:	4953-Refuse Systems
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	BURRTEC WASTE & RECYCLING SERVICES - YUCCA VALLEY
Address:	4878 NEWTON RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Region:	SAN BERNARDINO
Facility ID:	FA0007226
Owner:	BURRTEC WASTE AND RECYCLING SERVICES, LLC
Permit Number:	PT0013031
Permit Category:	APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status:	INACTIVE
Expiration Date:	04/30/2024

Name:	BURRTEC WASTE & RECYCLING SERVICES - YUCCA VALLEY
Address:	4878 NEWTON RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Region:	SAN BERNARDINO
Facility ID:	FA0007226
Owner:	BURRTEC WASTE AND RECYCLING SERVICES, LLC
Permit Number:	PT0006717
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	INACTIVE
Expiration Date:	04/30/2024

Name:	BURRTEC WASTE & RECYCLING SERVICES - YUCCA VALLEY
Address:	4878 NEWTON RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Region:	SAN BERNARDINO
Facility ID:	FA0007226
Owner:	BURRTEC WASTE AND RECYCLING SERVICES, LLC
Permit Number:	PT0025072
Permit Category:	UW HANDLER WITH ANOTHER CUPA PERMIT
Facility Status:	INACTIVE
Expiration Date:	04/30/2024

Name:	BURRTEC WASTE & RECYCLING SERVICES - YUCCA VALLEY
Address:	4878 NEWTON RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Region:	SAN BERNARDINO
Facility ID:	FA0007226
Owner:	BURRTEC WASTE AND RECYCLING SERVICES, LLC

BURRTEC YUCCA VALLEY YARD (Continued) **S113018308**

Permit Number: PT0006716
Permit Category: HAZARDOUS MATERIALS 11-30 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 04/30/2024

Name: BURRTEC WASTE & RECYCLING SERVICES - YUCCA VALLEY
Address: 4878 NEWTON RD
City,State,Zip: YUCCA VALLEY, CA 92284
Region: SAN BERNARDINO
Facility ID: FA0007226
Owner: BURRTEC WASTE AND RECYCLING SERVICES, LLC
Permit Number: PT0025071
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 04/30/2014

CIWQS:

Name:	BURRTEC YUCCA VALLEY YARD
Address:	4878 NEWTON RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Agency:	Burrtec Waste Recycling Services
Agency Address:	41575 Eclectic St, Palm Desert, CA 92260
Place/Project Type:	Industrial - Refuse Systems
SIC/NAICS:	4953
Region:	7
Program:	INDSTW
Regulatory Measure Status:	Terminated
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	7 36I020267
NPDES Number:	CAS000001
Adoption Date:	Not reported
Effective Date:	06/05/2006
Termination Date:	07/13/2023
Expiration/Review Date:	Not reported
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.16738
Longitude:	-116.42141

CERS:

Name:	BURRTEC YUCCA VALLEY YARD
Address:	4878 NEWTON RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Site ID:	528078
CERS ID:	633858
CERS Description:	Industrial Facility Storm Water

Affiliation:

Affiliation Type Desc:	Owner/Operator
Entity Name:	Burrtec Waste Recycling Services
Entity Title:	Operator
Affiliation Address:	41575 Eclectic St

BURRTEC YUCCA VALLEY YARD (Continued) **S113018308**

Affiliation City:	Palm Desert
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92260
Affiliation Phone:	,

B11 **HI DESERT DISPOSAL** **RCRA-SQG 1000597921**
SSW **4878 NEWTON LN** **FINDS CAD983619560**
< 1/8 **YUCCA VALLEY, CA 92284** **ECHO**
0.111 mi.
587 ft. **Site 3 of 7 in cluster B**

Relative: Higher
Actual: 3735 ft.

RCRA Listings:

Date Form Received by Agency:	19920214
Handler Name:	Hi Desert Disposal
Handler Address:	Newton Ln
Handler City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAD983619560
Contact Name:	DALE ARNEY
Contact Address:	4878 NEWTON LN
Contact City,State,Zip:	YUCCA VALLEY, CA 92284
Contact Telephone:	619-365-2015
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	NEWTON LN
Mailing City,State,Zip:	YUCCA VALLEY, CA 92284
Owner Name:	Waste Management
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported

HI DESERT DISPOSAL (Continued) **1000597921**

2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20000915
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: WASTE MANAGEMENT	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	P O BOX 3876
Owner/Operator City,State,Zip:	PALM DESERT, CA 92261
Owner/Operator Telephone:	619-365-2015
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	19920214
Handler Name: HI DESERT DISPOSAL	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Codes:	No NAICS Codes Found

HI DESERT DISPOSAL (Continued) **1000597921**

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110002869441

Click Here for FRS Facility Detail Report:

Environmental Interest/Information System:
The Resource Conservation and Recovery Act Information System (RCRAInfo) is EPA's comprehensive information system in support of the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. It tracks many types of information about generators, transporters, treaters, storers, and disposers of hazardous waste.
California's Hazardous Waste Tracking System Data Mart (HWTS-DATAMART) provides information on hazardous waste shipments for generators, transporters, and treatment, storage, and disposal facilities.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000597921
Registry ID:	110002869441
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002869441
Name:	HI DESERT DISPOSAL
Address:	4878 NEWTON LN
City,State,Zip:	YUCCA VALLEY, CA 92284

B12 **BURRTEC** **HWTS** **S113141955**
SSW **4878 NEWTON ST** **HAZNET** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284**
0.111 mi.
587 ft. **Site 4 of 7 in cluster B**

Relative:
Higher

Actual:
3735 ft.

HWTS:

Name:	BURRTEC
Address:	4878 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAL000305622
Inactive Date:	Not reported
Create Date:	04/17/2006
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	41575 ECLECTIC ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	PALM DESERT, CA 922601968
Owner Name:	BURRTEC WASTE & RECYCLING SVCS
Owner Address:	41575 ECLECTIC STREET
Owner Address 2:	Not reported
Owner City,State,Zip:	PALM DESERT, CA 922600000

BURRTEC (Continued) **S113141955**

Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	JOSEPH KAYE
Contact Address:	41575 ECLECTIC STREET
Contact Address 2:	Not reported
City,State,Zip:	PALM DESERT, CA 92260
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Active
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.167459
Longitude:	-116.421413

NAICS:

EPA ID:	CAL000305622
Create Date:	2006-04-17 13:01:51.317
NAICS Code:	56292
NAICS Description:	Materials Recovery Facilities
Issued EPA ID Date:	2006-04-17 13:01:51.30000
Inactive Date:	Not reported
Facility Name:	BURRTEC
Facility Address:	4878 NEWTON ST
Facility Address 2:	Not reported
Facility City:	YUCCA VALLEY
Facility County:	Not reported
Facility State:	CA
Facility Zip:	922847125

HAZNET:

Name:	BURRTEC
Address:	4878 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 922847125
Contact:	JOSEPH KAYE
Telephone:	7692729289
Mailing Name:	Not reported
Mailing Address:	41575 ECLECTIC ST
Year:	2021
Gepaid:	CAL000305622
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	1.275
Year:	2020
Gepaid:	CAL000305622
TSD EPA ID:	AZR000521146
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0625
Year:	2020

BURRTEC (Continued) **S113141955**

Gepaid:	CAL000305622
TSD EPA ID:	CAD097030993
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.85
Year:	2019
Gepaid:	CAL000305622
TSD EPA ID:	AZR000521146
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.42500
Year:	2018
Gepaid:	CAL000305622
TSD EPA ID:	AZR000515924
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.10000
Year:	2018
Gepaid:	CAL000305622
TSD EPA ID:	AZR000515924
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.20000
Year:	2018
Gepaid:	CAL000305622
TSD EPA ID:	AZR000515924
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.10000
Year:	2017
Gepaid:	CAL000305622
TSD EPA ID:	AZR000515924
CA Waste Code:	223 - Unspecified oil-containing waste
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	0.45
Year:	2017
Gepaid:	CAL000305622
TSD EPA ID:	AZR000515924
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.45
Year:	2016
Gepaid:	CAL000305622

BURRTEC (Continued) **S113141955**

TSD EPA ID:	CAD028409019
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.171

Click this hyperlink while viewing on your computer to access
13 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Information:

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	6/30/2020
Shipment Date:	6/30/2020
Receipt Date:	7/9/2020
Manifest Number:	021112680JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC
Address:	4878 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284-7125
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	909-889-5607
Contact Email:	KSTEVENS@BURRTECDESERT.COM
Transporter 1 EPA ID:	CAR000163097
Transporter Name:	KVAC ENVIRONMENTAL SERVICES INC
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD097030993
TSDF Name:	US ECOLOGY VERNON INC
TSDF Address 1:	SOUTH BOYLE AVENUE
TSDF Address 2:	Not reported
TSDF City,State,Zip:	LOS ANGELES, CA 90058-0000
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	352 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	12/4/2020
Shipment Date:	12/4/2020
Receipt Date:	12/10/2020
Manifest Number:	021112967JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC
Address:	4878 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284-7125

BURRTEC (Continued) **S113141955**

Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	909-889-5607
Contact Email:	KSTEVENS@BURRTECDESERT.COM
Transporter 1 EPA ID:	CAR000163097
Transporter Name:	KVAC ENVIRONMENTAL SERVICES INC
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD097030993
TSDF Name:	US ECOLOGY VERNON INC
TSDF Address 1:	SOUTH BOYLE AVENUE
TSDF Address 2:	Not reported
TSDF City,State,Zip:	LOS ANGELES, CA 90058-0000
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	352 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P

Year:	2021
EM Manifest ID:	Not reported
Shipment Date:	1/13/2020
Shipment Date:	1/13/2020
Receipt Date:	1/17/2020
Manifest Number:	019581457JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC WASTE
Address:	4878 NEWTON ROAD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	909-822-2396
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	HAZ MAT TRANS INC
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	WORLDWIDE RECOVERY SYSTEM INC
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146
TSDF Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1:	6500 S US HIGHWAY 95
TSDF Address 2:	Not reported
TSDF City,State,Zip:	YUMA, AZ 85365
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	352 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.0625
Waste Quantity:	125

BURRTEC (Continued) **S113141955**

Quantity Unit: P

Additional Information:

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	6/30/2020
Shipment Date:	6/30/2020
Receipt Date:	7/9/2020
Manifest Number:	021112680JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC
Address:	4878 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284-7125
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	909-889-5607
Contact Email:	KSTEVENS@BURRTECDESERT.COM
Transporter 1 EPA ID:	CAR000163097
Transporter Name:	KVAC ENVIRONMENTAL SERVICES INC
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD097030993
TSDF Name:	US ECOLOGY VERNON INC
TSDF Address 1:	SOUTH BOYLE AVENUE
TSDF Address 2:	Not reported
TSDF City,State,Zip:	LOS ANGELES, CA 90058-0000
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	352 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	12/4/2020
Shipment Date:	12/4/2020
Receipt Date:	12/10/2020
Manifest Number:	021112967JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC
Address:	4878 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284-7125
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	909-889-5607
Contact Email:	KSTEVENS@BURRTECDESERT.COM
Transporter 1 EPA ID:	CAR000163097
Transporter Name:	KVAC ENVIRONMENTAL SERVICES INC
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	Not reported

BURRTEC (Continued) **S113141955**

Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	CAD097030993
TSDF Name:	US ECOLOGY VERNON INC
TSDF Address 1:	SOUTH BOYLE AVENUE
TSDF Address 2:	Not reported
TSDF City,State,Zip:	LOS ANGELES, CA 90058-0000
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	352 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P

Year:	2020
EM Manifest ID:	Not reported
Shipment Date:	1/13/2020
Shipment Date:	1/13/2020
Receipt Date:	1/17/2020
Manifest Number:	019581457JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC WASTE
Address:	4878 NEWTON ROAD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	909-822-2396
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	HAZ MAT TRANS INC
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	WORLDWIDE RECOVERY SYSTEM INC
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146
TSDF Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1:	6500 S US HIGHWAY 95
TSDF Address 2:	Not reported
TSDF City,State,Zip:	YUMA, AZ 85365
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	352 - Not reported
RCRA Code:	Not reported
Meth Code:	H141 - Not reported
Quantity Tons:	0.0625
Waste Quantity:	125
Quantity Unit:	P

Additional Information:

Year:	2019
EM Manifest ID:	539076
Shipment Date:	8/1/2019
Shipment Date:	8/1/2019
Receipt Date:	8/12/2019

BURRTEC (Continued) **S113141955**

Manifest Number:	019581206JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC WASTE
Address:	4878 NEWTON ROAD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY 92284
Telephone:	909-889-5607
Contact:	Not reported
Contact Telephone:	909-822-2396
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146
TSDF Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1:	6500 S US HIGHWAY 95
TSDF Address 2:	Not reported
TSDF City,State,Zip:	YUMA 85365
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2019
EM Manifest ID:	539076
Generator EPA ID:	CAL000305622
Shipment Date:	2019-08-01
Manifest Number:	019581206JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.12500
Quantity Waste:	250.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	352

Year:	2019
EM Manifest ID:	426279
Shipment Date:	5/7/2019
Shipment Date:	5/7/2019
Receipt Date:	5/20/2019
Manifest Number:	018898475JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC
Address:	4878 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY 92284-7125

BURRTEC (Continued) **S113141955**

Telephone:	909-889-5607
Contact:	Not reported
Contact Telephone:	909-822-2396
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146
TSDF Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1:	6500 S US HIGHWAY 95
TSDF Address 2:	Not reported
TSDF City,State,Zip:	YUMA 85365
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2019
EM Manifest ID:	426279
Generator EPA ID:	CAL000305622
Shipment Date:	2019-05-07
Manifest Number:	018898475JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.17500
Quantity Waste:	350.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	352

Year:	2019
EM Manifest ID:	828444
Shipment Date:	11/13/2019
Shipment Date:	11/13/2019
Receipt Date:	11/20/2019
Manifest Number:	019581375JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC
Address:	4878 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY 92284-7125
Telephone:	909-889-5607
Contact:	Not reported
Contact Telephone:	760-674-1040
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	Not reported

BURRTEC (Continued) **S113141955**

Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000521146
TSDF Name:	YUMA YES 2 WASTE TRANSFER STATION
TSDF Address 1:	6500 S US HIGHWAY 95
TSDF Address 2:	Not reported
TSDF City,State,Zip:	YUMA 85365
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2019
EM Manifest ID:	828444
Generator EPA ID:	CAL000305622
Shipment Date:	2019-11-13
Manifest Number:	019581375JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.12500
Quantity Waste:	250.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	Metal drums, barrels, kegs
Quantity Type:	Pounds
State Code:	352

Additional Information:

Year:	2018
EM Manifest ID:	017037866JJK20170919_D_1
Shipment Date:	9/19/2017
Shipment Date:	9/19/2017
Receipt Date:	10/7/2017
Manifest Number:	017037866JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC WASTE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	CAR000049064
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported

BURRTEC (Continued) **S113141955**

TSDF EPA ID: AZR000515924
TSDF Name: YUMA ENVIRONMENTAL SERVICES
TSDF Address 1: Not reported
TSDF Address 2: Not reported
TSDF City,State,Zip: Not reported
TSDF Telephone: Not reported
TSDFA EPA ID: Not reported
Waste Code Description: - Not reported
RCRA Code: Not reported
Meth Code: - Not reported
Quantity Tons: Not reported
Waste Quantity: Not reported
Quantity Unit: Not reported

State:
Year: 2018
EM Manifest ID: 017037866JJK20170919_D_1
Generator EPA ID: CAL000305622
Shipment Date: 2017-09-19
Manifest Number: 017037866JJK
Line Number: 1
Method Code: H039
Quantity Tons: 0.12500
Quantity Waste: 250.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 223

Year: 2018
EM Manifest ID: 017037866JJK20170919_D_1
Generator EPA ID: CAL000305622
Shipment Date: 2017-09-19
Manifest Number: 017037866JJK
Line Number: 2
Method Code: H141
Quantity Tons: 0.12500
Quantity Waste: 250.000000
Quantity Unit: P
Number of Containers: 1
Type of Container: NULL
Quantity Type: NULL
State Code: 352

Year: 2018
EM Manifest ID: 017037719JJK20170712_D_1
Shipment Date: 7/12/2017
Shipment Date: 7/12/2017
Receipt Date: 7/22/2017
Manifest Number: 017037719JJK
Generator EPA ID: CAL000305622
Name: BURRTEC WASTE
Address: Not reported
Address 2: Not reported
City,State,Zip: Not reported
Telephone: Not reported

BURRTEC (Continued) **S113141955**

Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2018
EM Manifest ID:	017037719JJK20170712_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2017-07-12
Manifest Number:	017037719JJK
Line Number:	1
Method Code:	H039
Quantity Tons:	0.12500
Quantity Waste:	250.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	223

Year:	2018
EM Manifest ID:	017037719JJK20170712_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2017-07-12
Manifest Number:	017037719JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	352

Year:	2018
EM Manifest ID:	018003350JJK20180509_D_1
Shipment Date:	5/9/2018

BURRTEC (Continued) **S113141955**

Shipment Date:	5/9/2018
Receipt Date:	5/29/2018
Manifest Number:	018003350JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC WASTE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2018
EM Manifest ID:	018003350JJK20180509_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2018-05-09
Manifest Number:	018003350JJK
Line Number:	1
Method Code:	H141
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	223

Year:	2018
EM Manifest ID:	018003350JJK20180509_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2018-05-09
Manifest Number:	018003350JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.07500
Quantity Waste:	150.000000
Quantity Unit:	P

BURRTEC (Continued) **S113141955**

Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	352
Year:	2018
EM Manifest ID:	017037583JJK20170427_D_1
Shipment Date:	4/27/2017
Shipment Date:	4/27/2017
Receipt Date:	5/5/2017
Manifest Number:	017037583JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC WASTE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2018
EM Manifest ID:	017037583JJK20170427_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2017-04-27
Manifest Number:	017037583JJK
Line Number:	1
Method Code:	H039
Quantity Tons:	0.12500
Quantity Waste:	250.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	223
Year:	2018

BURRTEC (Continued) **S113141955**

EM Manifest ID:	017037583JJK20170427_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2017-04-27
Manifest Number:	017037583JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.15000
Quantity Waste:	300.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	352

Year:	2018
EM Manifest ID:	018003089JJK20180308_D_1
Shipment Date:	3/8/2018
Shipment Date:	3/8/2018
Receipt Date:	3/16/2018
Manifest Number:	018003089JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC WASTE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2018
EM Manifest ID:	018003089JJK20180308_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2018-03-08
Manifest Number:	018003089JJK
Line Number:	1
Method Code:	H039

BURRTEC (Continued) **S113141955**

Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	223
Year:	2018
EM Manifest ID:	018003089JJK20180308_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2018-03-08
Manifest Number:	018003089JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.12500
Quantity Waste:	250.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	352
Year:	2018
EM Manifest ID:	017037971JJK20171121_D_1
Shipment Date:	11/21/2017
Shipment Date:	11/21/2017
Receipt Date:	12/1/2017
Manifest Number:	017037971JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC WASTE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Address 1:	Not reported
TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported

BURRTEC (Continued) **S113141955**

Quantity Unit:	Not reported
State:	
Year:	2018
EM Manifest ID:	017037971JJK20171121_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2017-11-21
Manifest Number:	017037971JJK
Line Number:	1
Method Code:	H039
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	223
Year:	2018
EM Manifest ID:	017037971JJK20171121_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2017-11-21
Manifest Number:	017037971JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.12500
Quantity Waste:	250.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	352
Year:	2018
EM Manifest ID:	015378402JJK20170130_D_1
Shipment Date:	1/30/2017
Shipment Date:	1/30/2017
Receipt Date:	2/2/2017
Manifest Number:	015378402JJK
Generator EPA ID:	CAL000305622
Name:	BURRTEC WASTE
Address:	Not reported
Address 2:	Not reported
City,State,Zip:	Not reported
Telephone:	Not reported
Contact:	Not reported
Contact Telephone:	Not reported
Contact Email:	Not reported
Transporter 1 EPA ID:	CAT080012800
Transporter Name:	Not reported
Transporter 1 Emergency Number:	Not reported
Transporter 2 EPA ID:	CAR000175422
Transporter Name 2:	Not reported
Transporter 2 Emergency Number:	Not reported
TSDF EPA ID:	AZR000515924
TSDF Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Address 1:	Not reported

BURRTEC (Continued) **S113141955**

TSDF Address 2:	Not reported
TSDF City,State,Zip:	Not reported
TSDF Telephone:	Not reported
TSDFA EPA ID:	Not reported
Waste Code Description:	- Not reported
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	Not reported
Waste Quantity:	Not reported
Quantity Unit:	Not reported

State:

Year:	2018
EM Manifest ID:	015378402JJK20170130_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2017-01-30
Manifest Number:	015378402JJK
Line Number:	1
Method Code:	H039
Quantity Tons:	0.10000
Quantity Waste:	200.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	223

Year:	2018
EM Manifest ID:	015378402JJK20170130_D_1
Generator EPA ID:	CAL000305622
Shipment Date:	2017-01-30
Manifest Number:	015378402JJK
Line Number:	2
Method Code:	H141
Quantity Tons:	0.07500
Quantity Waste:	150.000000
Quantity Unit:	P
Number of Containers:	1
Type of Container:	NULL
Quantity Type:	NULL
State Code:	352

Additional Information:

Year:	2017
Gen EPA ID:	CAL000305622

Shipment Date:	20171121
Creation Date:	8/2/2018 18:30:23
Receipt Date:	20171201
Manifest ID:	017037971JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES

BURRTEC (Continued) **S113141955**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20171121
Creation Date:	8/2/2018 18:30:23
Receipt Date:	20171201
Manifest ID:	017037971JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170919
Creation Date:	9/29/2018 18:30:10
Receipt Date:	20171007
Manifest ID:	017037866JJK
Trans EPA ID:	CAR000049064
Trans Name:	ECTI
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.125

BURRTEC (Continued) **S113141955**

Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170919
Creation Date:	9/29/2018 18:30:10
Receipt Date:	20171007
Manifest ID:	017037866JJK
Trans EPA ID:	CAR000049064
Trans Name:	ECTI
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS INC
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170712
Creation Date:	8/1/2018 18:31:11
Receipt Date:	20170722
Manifest ID:	017037719JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

BURRTEC (Continued) **S113141955**

Shipment Date:	20170712
Creation Date:	8/1/2018 18:31:11
Receipt Date:	20170722
Manifest ID:	017037719JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170427
Creation Date:	5/12/2018 18:32:44
Receipt Date:	20170505
Manifest ID:	017037583JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20170427
Creation Date:	5/12/2018 18:32:44
Receipt Date:	20170505
Manifest ID:	017037583JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAR000175422

BURRTEC (Continued) **S113141955**

Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170130
Creation Date:	5/9/2018 18:31:21
Receipt Date:	20170202
Manifest ID:	015378402JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170130
Creation Date:	5/9/2018 18:31:21
Receipt Date:	20170202
Manifest ID:	015378402JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAR000175422
Trans 2 Name:	WORLDWIDE RECOVERY SYSTEMS
TSDF EPA ID:	AZR000515924
Trans Name:	YUMA ENVIRONMENTAL SERVICES
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	223 - Unspecified oil-containing waste
RCRA Code:	Not reported

BURRTEC (Continued) **S113141955**

Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 0.1
Waste Quantity: 200
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Information:
Year: 2016
Gen EPA ID: CAL000305622

Shipment Date: 20151109
Creation Date: 6/30/2016 18:31:00
Receipt Date: 20151117
Manifest ID: 014918530JJK
Trans EPA ID: CAT080012800
Trans Name: HAZ MAT TRANS INC
Trans 2 EPA ID: CAD981412356
Trans 2 Name: PACIFIC TRANS
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.3
Waste Quantity: 600
Quantity Unit: P
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20150819
Creation Date: 2/5/2016 22:15:23
Receipt Date: 20150828
Manifest ID: 013086953JJK
Trans EPA ID: CAT080012800
Trans Name: HAZ MAT TRANS INC
Trans 2 EPA ID: CAD981141235
Trans 2 Name: PACIFIC TRANS
TSDF EPA ID: NVT330010000
Trans Name: US ECOLOGY
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 352 - Other organic solids
RCRA Code: Not reported
Meth Code: H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons: 0.3

BURRTEC (Continued) **S113141955**

Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150528
Creation Date:	1/20/2016 22:15:43
Receipt Date:	20150612
Manifest ID:	013086726JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981412356
Trans 2 Name:	PACIFIC TRANS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150528
Creation Date:	9/8/2015 22:15:08
Receipt Date:	20150529
Manifest ID:	013086727JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.114
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

BURRTEC (Continued) **S113141955**

Shipment Date:	20150204
Creation Date:	11/9/2015 22:15:17
Receipt Date:	20150206
Manifest ID:	013085976JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981412356
Trans 2 Name:	PACIFIC TRANS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2015
Gen EPA ID:	CAL000305622
Shipment Date:	20151109
Creation Date:	6/30/2016 18:31:00
Receipt Date:	20151117
Manifest ID:	014918530JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981412356
Trans 2 Name:	PACIFIC TRANS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150819
Creation Date:	2/5/2016 22:15:23
Receipt Date:	20150828

BURRTEC (Continued) **S113141955**

Manifest ID:	013086953JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981141235
Trans 2 Name:	PACIFIC TRANS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150528
Creation Date:	1/20/2016 22:15:43
Receipt Date:	20150612
Manifest ID:	013086726JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981412356
Trans 2 Name:	PACIFIC TRANS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150528
Creation Date:	9/8/2015 22:15:08
Receipt Date:	20150529
Manifest ID:	013086727JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON

BURRTEC (Continued) **S113141955**

TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.114
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20150204
Creation Date:	11/9/2015 22:15:17
Receipt Date:	20150206
Manifest ID:	013085976JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981412356
Trans 2 Name:	PACIFIC TRANS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.4
Waste Quantity:	800
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2014
Gen EPA ID:	CAL000305622
Shipment Date:	20141105
Creation Date:	6/26/2015 22:15:35
Receipt Date:	20141114
Manifest ID:	013085539JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981412356
Trans 2 Name:	PACIFIC TRANS ENV SERV
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids

BURRTEC (Continued) **S113141955**

RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140403
Creation Date:	9/9/2014 22:15:12
Receipt Date:	20140418
Manifest ID:	012383837JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981412356
Trans 2 Name:	PACIFIC TRANS
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140122
Creation Date:	6/13/2014 22:15:06
Receipt Date:	20140130
Manifest ID:	012383682JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981412356
Trans 2 Name:	PACIFIC TRANS ENV SERVICES
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported

BURRTEC (Continued) **S113141955**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20140122
Creation Date:	3/8/2014 22:15:07
Receipt Date:	20140124
Manifest ID:	012383683JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.076
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2013
Gen EPA ID:	CAL000305622
Shipment Date:	20131016
Creation Date:	3/6/2014 22:15:09
Receipt Date:	20131025
Manifest ID:	011294432JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	CAD981412356
Trans 2 Name:	PACIFIC TRANS ENV SERV
TSDF EPA ID:	NVT330010000
Trans Name:	US ECOLOGY
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H132 - Landfill Or Surface Impoundment That Will Be Closed As Landfill(To Include On-Site Treatment And/Or Stabilization)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

BURRTEC (Continued) **S113141955**

Additional Code 5:	Not reported
Shipment Date:	20130719
Creation Date:	9/16/2013 22:15:07
Receipt Date:	20130726
Manifest ID:	011294155JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.114
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130719
Creation Date:	9/16/2013 22:15:07
Receipt Date:	20130726
Manifest ID:	011294155JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.25
Waste Quantity:	500
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20130312
Creation Date:	5/3/2013 22:15:44
Receipt Date:	20130315
Manifest ID:	009760310JJK
Trans EPA ID:	CAT080012800

BURRTEC (Continued) **S113141955**

Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2012
Gen EPA ID:	CAL000305622
Shipment Date:	20121025
Creation Date:	1/5/2013 22:15:31
Receipt Date:	20121026
Manifest ID:	007696715JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20121025
Creation Date:	1/5/2013 22:15:31
Receipt Date:	20121026
Manifest ID:	007696715JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

BURRTEC (Continued) **S113141955**

TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.304
Waste Quantity:	80
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120717
Creation Date:	10/15/2012 22:15:38
Receipt Date:	20120718
Manifest ID:	007696867JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20120113
Creation Date:	3/27/2012 20:30:27
Receipt Date:	20120120
Manifest ID:	007695374JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No

BURRTEC (Continued) **S113141955**

	Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.3
Waste Quantity:	600
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

B13 **BURRTEC WASTE** **RCRA NonGen / NLR 1024813768**
SSW **4878 NEWTON ROAD** **E MANIFEST CAL000305622**
< 1/8 **YUCCA VALLEY, CA 92284**
0.111 mi.
587 ft. **Site 5 of 7 in cluster B**

Relative: **Higher**

Actual: **3735 ft.**

RCRA Listings:

Date Form Received by Agency:	20060417
Handler Name:	Burrtec
Handler Address:	4878 Newton St
Handler City,State,Zip:	YUCCA VALLEY, CA 92284-7125
EPA ID:	CAL000305622
Contact Name:	KENN STEVENS
Contact Address:	41575 ECLECTIC STREET
Contact City,State,Zip:	PALM DESERT, CA 92260
Contact Telephone:	760-674-1040
Contact Fax:	760-340-0417
Contact Email:	KSTEVENS@BURRTECDESERT.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	41575 ECLECTIC ST
Mailing City,State,Zip:	PALM DESERT, CA 92260-1968
Owner Name:	Burrtec Waste & Recycling Svcs
Owner Type:	Other
Operator Name:	Kenn Stevens
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site State-Reg Handler:	---

BURRTEC WASTE (Continued) **1024813768**

Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20180905
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	BURRTEC WASTE & RECYCLING SVCS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	41575 ECLECTIC STREET
Owner/Operator City,State,Zip:	PALM DESERT, CA 92260-0000
Owner/Operator Telephone:	760-674-1040
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KENN STEVENS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	41575 ECLECTIC STREET
Owner/Operator City,State,Zip:	PALM DESERT, CA 92260
Owner/Operator Telephone:	760-674-1040
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20060417
Handler Name:	BURRTEC

BURRTEC WASTE (Continued) **1024813768**

Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	56292
NAICS Description:	MATERIALS RECOVERY FACILITIES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E MANIFEST:

Manifest Tracking Number:	018898475JJK
Last Updated Date:	20190626
Shipped Date:	20190507
Received Date:	20190520
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284-7125
Generator Location Street Number:	Not reported
Generator Location Street 1:	9890 CHERRY AVE
Generator Location Street 2:	Not reported
Generator Location City:	FONTANA
Generator Location Zip:	92335
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	AZR000521146
Designated Facility Name:	Yuma Yes 2 Waste Transfer Station
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	STE 105
Designated Facility Mail Street 2:	2621 GREEN RIVER RD
Designated Facility Mail City:	CORONA
Designated Facility Mail Zip:	92882
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	6500 S US HIGHWAY 95

BURRTEC WASTE (Continued) **1024813768**

Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	YUMA
Designated Facility Location Zip:	85365
Designated Facility Location State:	AZ
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	017488606FLE
Last Updated Date:	20221002
Shipped Date:	20220912
Received Date:	20220915
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST.
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	4878 NEWTON ST.
Generator Location Street 2:	Not reported
Generator Location City:	YUCCA VALLEY
Generator Location Zip:	92284
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	5375 S BOYLE AVE
Designated Facility Mail City:	LOS ANGELES
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	5375 S BOYLE AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LOS ANGELES
Designated Facility Location Zip:	90058
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	017488673FLE
Last Updated Date:	20221123
Shipped Date:	20221108
Received Date:	20221110
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec

BURRTEC WASTE (Continued) **1024813768**

Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST.
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	4878 NEWTON ST.
Generator Location Street 2:	Not reported
Generator Location City:	YUCCA VALLEY
Generator Location Zip:	92284
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	5375 S BOYLE AVE
Designated Facility Mail City:	LOS ANGELES
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	5375 S BOYLE AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LOS ANGELES
Designated Facility Location Zip:	90058
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	017488728FLE
Last Updated Date:	20230128
Shipped Date:	20230106
Received Date:	20230119
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST.
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	4878 NEWTON ST.
Generator Location Street 2:	Not reported
Generator Location City:	YUCCA VALLEY
Generator Location Zip:	92284
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported

BURRTEC WASTE (Continued) **1024813768**

Designated Facility Mail Street 2:	5375 S BOYLE AVE
Designated Facility Mail City:	LOS ANGELES
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	5375 S BOYLE AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LOS ANGELES
Designated Facility Location Zip:	90058
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	017488748FLE
Last Updated Date:	20221230
Shipped Date:	20221213
Received Date:	20221222
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST.
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	4878 NEWTON ST.
Generator Location Street 2:	Not reported
Generator Location City:	YUCCA VALLEY
Generator Location Zip:	92284
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	5375 S BOYLE AVE
Designated Facility Mail City:	LOS ANGELES
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	5375 S BOYLE AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LOS ANGELES
Designated Facility Location Zip:	90058
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	021112680JJK
Last Updated Date:	20200717
Shipped Date:	20200630

BURRTEC WASTE (Continued) **1024813768**

Received Date:	20200709
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284-7125
Generator Location Street Number:	Not reported
Generator Location Street 1:	41575 ECLECTIC ST
Generator Location Street 2:	Not reported
Generator Location City:	PALM DESERT
Generator Location Zip:	92260-1968
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc
Designated Facility Mail Street Number:	5375
Designated Facility Mail Street 1:	CA90058 CA037US 5375
Designated Facility Mail Street 2:	SOUTH BOYLE AVENUE
Designated Facility Mail City:	VERNON
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	5375
Designated Facility Location Street 1:	SOUTH BOYLE AVENUE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LOS ANGELES
Designated Facility Location Zip:	90058-0000
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	021112967JJK
Last Updated Date:	20201219
Shipped Date:	20201204
Received Date:	20201210
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284-7125
Generator Location Street Number:	Not reported
Generator Location Street 1:	41575 ECLECTIC ST
Generator Location Street 2:	Not reported
Generator Location City:	PALM DESERT
Generator Location Zip:	92260-1968

BURRTEC WASTE (Continued) **1024813768**

Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc
Designated Facility Mail Street Number:	5375
Designated Facility Mail Street 1:	CA90058 CA037US 5375
Designated Facility Mail Street 2:	SOUTH BOYLE AVENUE
Designated Facility Mail City:	VERNON
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	5375
Designated Facility Location Street 1:	SOUTH BOYLE AVENUE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LOS ANGELES
Designated Facility Location Zip:	90058-0000
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	012342281FLE
Last Updated Date:	20211021
Shipped Date:	20211008
Received Date:	20211014
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST.
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	4878 NEWTON ST.
Generator Location Street 2:	Not reported
Generator Location City:	YUCCA VALLEY
Generator Location Zip:	92284
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	5375 S BOYLE AVE
Designated Facility Mail City:	LOS ANGELES
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	5375 S BOYLE AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LOS ANGELES
Designated Facility Location Zip:	90058
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported

BURRTEC WASTE (Continued) **1024813768**

Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	012342310FLE
Last Updated Date:	20211219
Shipped Date:	20211206
Received Date:	20211209
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST.
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	4878 NEWTON ST.
Generator Location Street 2:	Not reported
Generator Location City:	YUCCA VALLEY
Generator Location Zip:	92284
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	5375 S BOYLE AVE
Designated Facility Mail City:	LOS ANGELES
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	5375 S BOYLE AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LOS ANGELES
Designated Facility Location Zip:	90058
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N
Manifest Tracking Number:	016602703FLE
Last Updated Date:	20220506
Shipped Date:	20220419
Received Date:	20220428
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST.
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA

BURRTEC WASTE (Continued) **1024813768**

Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	4878 NEWTON ST.
Generator Location Street 2:	Not reported
Generator Location City:	YUCCA VALLEY
Generator Location Zip:	92284
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	5375 S BOYLE AVE
Designated Facility Mail City:	LOS ANGELES
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported
Designated Facility Location Street 1:	5375 S BOYLE AVE
Designated Facility Location Street 2:	Not reported
Designated Facility Location City:	LOS ANGELES
Designated Facility Location Zip:	90058
Designated Facility Location State:	CA
Designated Facility Contact Company Name:	Not reported
Manifest Residue Indicator:	N
Rejection Indicator:	N

Manifest Tracking Number:	022624486JJK
Last Updated Date:	20220819
Shipped Date:	20220803
Received Date:	20220804
Manifest Status:	Signed
Submission Type:	DataImage5Copy
Origin Type:	Service
Generator EPA ID:	CAL000305622
Generator Name:	Burrtec
Generator Mail Street Number:	Not reported
Generator Mail Street 1:	4878 NEWTON ST.
Generator Mail Street 2:	Not reported
Generator Mail City:	YUCCA VALLEY
Generator Mail State:	CA
Generator Mail Zip:	92284
Generator Location Street Number:	Not reported
Generator Location Street 1:	4878 NEWTON ST.
Generator Location Street 2:	Not reported
Generator Location City:	YUCCA VALLEY
Generator Location Zip:	92284
Generator Location State:	CA
Generator Contact Company Name:	Not reported
Designated Facility EPA ID:	CAD097030993
Designated Facility Name:	Us Ecology Vernon Inc.
Designated Facility Mail Street Number:	Not reported
Designated Facility Mail Street 1:	Not reported
Designated Facility Mail Street 2:	5375 S BOYLE AVE
Designated Facility Mail City:	LOS ANGELES
Designated Facility Mail Zip:	90058
Designated Facility Mail State:	CA
Designated Facility Location Street Number:	Not reported

BURRTEC WASTE (Continued) **1024813768**

Designated Facility Location Street 1: 5375 S BOYLE AVE
Designated Facility Location Street 2: Not reported
Designated Facility Location City: LOS ANGELES
Designated Facility Location Zip: 90058
Designated Facility Location State: CA
Designated Facility Contact Company Name: Not reported
Manifest Residue Indicator: N
Rejection Indicator: N

State Waste:
Manifest Tracking Number: 019581206JJK
Waste Line Number: 1
State Waste Code Owner: CA
State Waste Code: 352
State Waste: Other organic solids

Transporter:
Manifest Tracking Number: 019581206JJK
Transporter Line Number: 1
Transporter EPA ID: CAT080012800
Transporter Name: Haz Mat Trans Inc

Manifest Tracking Number: 019581206JJK
Transporter Line Number: 2
Transporter EPA ID: CAR000175422
Transporter Name: Worldwide Recovery System Inc

Waste Line:
Manifest Tracking Number: 019581206JJK
Waste Line Number: 1
U.S. DOT Hazardous Indicator: N
U.S. DOT ID Number: Not reported
U.S. DOT Description: Not reported
Non-Hazardous Waste Description: NON-RCRA HAZARDOUS WASTE SOLID (OILY DEBRIS)
Number of Containers: 1
Container Type Code: DM
Container Type Description: Metal drums, barrels, kegs
Waste Quantity: 250
Quantity Unit of Measure Code: P
Quantity Unit of Measure Description: Pounds
Waste Quantity, in Tons: 0.125
Acute Waste Quantity, in Tons: 0
Non-Acute Waste Quantity, in Tons: 0.125
Waste Quantity, in Kilograms: 113.37875
Acute Waste Quantity, in Kilograms: 0
Non-Acute Waste Quantity, in Kilorgrams: 113.37875
Management Method Code: H141
Management Method Description: STORAGE, BULKING AND/OR TRANSFER OFF SITE
Waste Residue Indicator: N
Quantity Discrepancy Indicator: N
Waste Type Discrepancy Indicator: N
Waste Density: Not reported
Waste Density Unit of Measure Code: Not reported
Waste Density Unit of Measure Description: Not reported
Form Code: Not reported
Form Code Description: Not reported

BURRTEC WASTE (Continued) **1024813768**

Source Code:	Not reported
Source Code Description:	Not reported
Waste Minimization Code:	Not reported
Waste Minimization Code Description:	Not reported
Consent Number:	Not reported
EPA Waste Indicator:	N

Click this hyperlink while viewing on your computer to access
4 additional US EManifest: record(s) in the EDR Site Report.

B14 **WASTE MANAGEMENT OF HI-DESERT** **HWTS** **S123614993**
SSW **4878 NEWTON ST** **HAZNET** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284**
0.111 mi.
587 ft. **Site 6 of 7 in cluster B**

Relative:
Higher

Actual:
3735 ft.

HWTS:

Name:	WASTE MANAGEMENT OF HI-DESERT
Address:	4878 NEWTON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAD983619560
Inactive Date:	06/30/2006
Create Date:	02/14/1992
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	41-575 ECCLECTIC ST
Mailing Address 2:	Not reported
Mailing City,State,Zip:	PALM DESERT, CA 922600000
Owner Name:	WASTE MANAGEMENT
Owner Address:	155 N REDWOOD DR #250
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN JOSE, CA 922600000
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	KENN STEVENS, ROUTE MANAGER
Contact Address:	41-575 ECLECTIC ST
Contact Address 2:	Not reported
City,State,Zip:	PALM DESERT, CA 922600000
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	34.167459
Longitude:	-116.421413

NAICS:

EPA ID:	CAD983619560
Create Date:	2004-10-20 10:23:57.043
NAICS Code:	48421
NAICS Description:	Used Household and Office Goods Moving
Issued EPA ID Date:	1992-02-14 00:00:00
Inactive Date:	2006-06-30 00:00:00
Facility Name:	WASTE MANAGEMENT OF HI-DESERT
Facility Address:	4878 NEWTON ST
Facility Address 2:	Not reported
Facility City:	YUCCA VALLEY

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Facility County: Not reported
Facility State: CA
Facility Zip: 922847125

HAZNET:
Name: WASTE MANAGEMENT OF HI-DESERT
Address: 4878 NEWTON ST
Address 2: Not reported
City,State,Zip: YUCCA VALLEY, CA 922847125
Contact: KENN STEVENS, ROUTE MANAGER
Telephone: 7603405901
Mailing Name: Not reported
Mailing Address: 41-575 ECCLECTIC ST

Year: 2008
Gepaid: CAD983619560
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1.178

Year: 2007
Gepaid: CAD983619560
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 3.61

Year: 2007
Gepaid: CAD983619560
TSD EPA ID: CAD099452708
CA Waste Code: 135 - Unspecified aqueous solution
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 1.05

Year: 2006
Gepaid: CAD983619560
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.075

Year: 2006
Gepaid: CAD983619560
TSD EPA ID: CAD097030993
CA Waste Code: 352 - Other organic solids
Disposal Method: D80 - Disposal, Land Fill
Tons: 0.2

Year: 2006
Gepaid: CAD983619560
TSD EPA ID: CAD099452708

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 2.508

Year: 2006
Gepaid: CAD983619560
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 2.394

Year: 2005
Gepaid: CAD983619560
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: -
Tons: 0.76

Year: 2005
Gepaid: CAD983619560
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 0.988

Year: 2005
Gepaid: CAD983619560
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 3.477

Click this hyperlink while viewing on your computer to access
26 additional CA HAZNET: record(s) in the EDR Site Report.

Additional Information:
Year: 2008
Gen EPA ID: CAD983619560

Shipment Date: 20080512
Creation Date: 8/4/2008 18:30:16
Receipt Date: 20080512
Manifest ID: 001849567JJK
Trans EPA ID: CAR000141143
Trans Name: TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD099452708
Trans Name: INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Quantity Tons:	0.342
Waste Quantity:	90
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080325
Creation Date:	5/16/2008 18:30:16
Receipt Date:	20080325
Manifest ID:	001849599JJK
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20080208
Creation Date:	8/7/2008 18:30:28
Receipt Date:	20080211
Manifest ID:	001849543JJK
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.456
Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Additional Code 5: Not reported

Additional Information:
Year: 2007
Gen EPA ID: CAD983619560

Shipment Date: 20070621
Creation Date: 10/22/2007 18:30:08
Receipt Date: 20070621
Manifest ID: 001850784JJK
Trans EPA ID: CAR000141143
Trans Name: TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD099452708
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 221 - Waste oil and mixed oil
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 1.14
Waste Quantity: 300
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20070621
Creation Date: 10/22/2007 18:30:08
Receipt Date: 20070621
Manifest ID: 001850784JJK
Trans EPA ID: CAR000141143
Trans Name: TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD099452708
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 135 - Unspecified aqueous solution
RCRA Code: Not reported
Meth Code: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons: 1.05
Waste Quantity: 250
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20070424

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Creation Date:	8/29/2007 18:30:14
Receipt Date:	20070424
Manifest ID:	001850739JJK
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.14
Waste Quantity:	300
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20070119
Creation Date:	8/9/2007 18:30:06
Receipt Date:	20070119
Manifest ID:	001850638JJK
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.33
Waste Quantity:	350
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2006
Gen EPA ID:	CAD983619560

Shipment Date:	20061130
Creation Date:	3/30/2007 13:34:15
Receipt Date:	20061201
Manifest ID:	001850601JJK

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061120
Creation Date:	3/30/2007 13:33:18
Receipt Date:	20061201
Manifest ID:	001850576JJK
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	SIEMENS WATER TECHNOLOGIES INC
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061116
Creation Date:	3/30/2007 13:32:41
Receipt Date:	20061117
Manifest ID:	001850575JJK
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.152
Waste Quantity:	40
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20061109
Creation Date:	3/30/2007 13:32:41
Receipt Date:	20061117
Manifest ID:	001850560JJK
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060918
Creation Date:	3/30/2007 13:31:11
Receipt Date:	20060922
Manifest ID:	001850522JJK
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.836
Waste Quantity:	220

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060526
Creation Date:	8/24/2006 18:32:58
Receipt Date:	20060527
Manifest ID:	22713007
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060412
Creation Date:	7/27/2006 18:36:48
Receipt Date:	20060414
Manifest ID:	22712972
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	CAD983615501
Trans 2 Name:	PACIFIC OIL COMPANY
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20060411
Creation Date:	12/20/2006 18:30:44

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Receipt Date:	20060421
Manifest ID:	22712966
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICE INC
TSDF Alt EPA ID:	CAD097030993
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060411
Creation Date:	12/20/2006 18:30:44
Receipt Date:	20060421
Manifest ID:	22712966
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD097030993
Trans Name:	US FILTER RECOVERY SERVICE INC
TSDF Alt EPA ID:	CAD097030993
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20060322
Creation Date:	7/27/2006 18:30:34
Receipt Date:	20060323
Manifest ID:	22712953
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	CAD099452708

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.57
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2005
Gen EPA ID:	CAD983619560
Shipment Date:	20051215
Creation Date:	3/16/2006 18:30:37
Receipt Date:	20051219
Manifest ID:	22712870
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051115
Creation Date:	1/2/2007 18:30:08
Receipt Date:	20051116
Manifest ID:	22712826
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.836

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20051013
Creation Date:	6/22/2006 18:31:22
Receipt Date:	20051013
Manifest ID:	22716397
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.608
Waste Quantity:	160
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050915
Creation Date:	3/10/2006 10:49:15
Receipt Date:	20050920
Manifest ID:	22716372
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.836
Waste Quantity:	220
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050712

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Creation Date:	10/11/2005 18:32:36
Receipt Date:	20050712
Manifest ID:	22716285
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.38
Waste Quantity:	100
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050531
Creation Date:	8/17/2005 18:33:44
Receipt Date:	20050531
Manifest ID:	22716264
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.456
Waste Quantity:	120
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20050519
Creation Date:	8/17/2005 18:32:04
Receipt Date:	20050519
Manifest ID:	22716234
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.1
Waste Quantity:	200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050411
Creation Date:	7/21/2005 18:32:26
Receipt Date:	20050412
Manifest ID:	22716219
Trans EPA ID:	CAC002583134
Trans Name:	TITAN CONSOLIDATED INDUSTRIES IN
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	1.52
Waste Quantity:	400
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050218
Creation Date:	5/29/2005 18:30:53
Receipt Date:	20050221
Manifest ID:	22716179
Trans EPA ID:	CAC002583134
Trans Name:	TITAN CONSOLIDATED INDUSTRIES IN
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	0.285
Waste Quantity:	75
Quantity Unit:	G
Additional Code 1:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20050209
Creation Date:	5/29/2005 18:30:53
Receipt Date:	20050211
Manifest ID:	22716173
Trans EPA ID:	CAC002583134
Trans Name:	TITAN CONSOLIDATED INDUSTRIES IN
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	1.2
Waste Quantity:	2400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2004
Gen EPA ID:	CAD983619560
Shipment Date:	20041228
Creation Date:	3/17/2005 18:34:39
Receipt Date:	20041230
Manifest ID:	22716132
Trans EPA ID:	CAC002583134
Trans Name:	TITAN CONSOLIDATED INDUSTRIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	Not reported
Waste Quantity:	1200
Quantity Unit:	Not reported
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Shipment Date:	20041201
Creation Date:	3/13/2007 18:30:28
Receipt Date:	20041202
Manifest ID:	23873747
Trans EPA ID:	CAL000027718
Trans Name:	JIM KNIGHT DRAIN OIL CO INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	EVERGREEN ENVIRONMENTAL SERV
TSDF Alt EPA ID:	CAD981696420
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NA
Meth Code:	R01 - Recycler
Quantity Tons:	0.722
Waste Quantity:	190
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20041015
Creation Date:	1/14/2005 10:18:48
Receipt Date:	20041018
Manifest ID:	24045836
Trans EPA ID:	CAR000047613
Trans Name:	CAL WEST ENVIRONMENTAL SVCS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.075
Waste Quantity:	150
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040804
Creation Date:	1/4/2005 18:33:27
Receipt Date:	20040804
Manifest ID:	22496476
Trans EPA ID:	CAD009661844
Trans Name:	HAZARDOUS TECHNOLOGIES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	- Not reported
Quantity Tons:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040802
Creation Date:	1/6/2005 18:30:52
Receipt Date:	20040813
Manifest ID:	22716111
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES IN
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.1125
Waste Quantity:	225
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040601
Creation Date:	11/1/2004 9:00:46
Receipt Date:	20040602
Manifest ID:	22716090
Trans EPA ID:	CAD009661844
Trans Name:	HAZARDOUS TECHNOLOGIES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO/KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	- Not reported
Quantity Tons:	0.836
Waste Quantity:	220
Quantity Unit:	G

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040601
Creation Date:	11/1/2004 9:00:46
Receipt Date:	20040611
Manifest ID:	22716091
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES IN
Trans 2 EPA ID:	CAR000047613
Trans 2 Name:	CAL WEST ENVIRONMENTAL SERVICES
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	NONE
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040508
Creation Date:	10/15/2004 15:16:06
Receipt Date:	20040520
Manifest ID:	22716048
Trans EPA ID:	CAR000141143
Trans Name:	TITAN CONSOLIDATED INDUSTRIES IN
Trans 2 EPA ID:	CAD009661844
Trans 2 Name:	HAZARDOUS TECHNOLOGIES
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.45
Waste Quantity:	900
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20040126
Creation Date:	8/20/2004 9:31:41
Receipt Date:	20040129

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Manifest ID:	22752457
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040126
Creation Date:	8/20/2004 9:31:41
Receipt Date:	20040129
Manifest ID:	22752457
Trans EPA ID:	CAD982440364
Trans Name:	PFR ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080033681
Trans Name:	D/K ENVIRONMENTAL
TSDF Alt EPA ID:	CAT080033681
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.6
Waste Quantity:	1200
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2003
Gen EPA ID:	CAD983619560

Shipment Date:	20030710
Creation Date:	7/23/2004 9:16:48
Receipt Date:	20030711
Manifest ID:	22552802
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030320
Creation Date:	1/5/2007 18:30:36
Receipt Date:	20030320
Manifest ID:	22271666
Trans EPA ID:	CAL000113451
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000113451
Trans Name:	Not reported
TSDF Alt EPA ID:	CAL000113451
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.017
Waste Quantity:	5
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030318
Creation Date:	7/12/2003 18:31:23
Receipt Date:	20030319
Manifest ID:	22329734
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	4.17
Waste Quantity:	1000

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20030106
Creation Date:	4/30/2003 10:21:38
Receipt Date:	Not reported
Manifest ID:	22176206
Trans EPA ID:	TXR000050930
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	222 - Oil/water separation sludge
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.0425
Waste Quantity:	250
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2002
Gen EPA ID:	CAD983619560
Shipment Date:	20021230
Creation Date:	3/30/2003 18:31:13
Receipt Date:	20030103
Manifest ID:	20110598
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.2
Waste Quantity:	400
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Additional Code 5:	Not reported
Shipment Date:	20021212
Creation Date:	3/27/2003 18:31:27
Receipt Date:	20021212
Manifest ID:	21436242
Trans EPA ID:	CAL000113451
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000113451
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.238
Waste Quantity:	70
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020730
Creation Date:	4/10/2003 10:20:47
Receipt Date:	20020807
Manifest ID:	21088318
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	CAD980585293
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD980892731
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	D80 - Disposal, Land Fill
Quantity Tons:	0.125
Waste Quantity:	250
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20020415
Creation Date:	7/29/2002 18:38:23
Receipt Date:	20020415
Manifest ID:	21435266
Trans EPA ID:	CAL000113451
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000113451
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.119
Waste Quantity:	35
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20020111
Creation Date:	2/20/2002 0:00:00
Receipt Date:	Not reported
Manifest ID:	21083488
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD980892731
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	- Not reported
Quantity Tons:	0.15
Waste Quantity:	300
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2001
Gen EPA ID:	CAD983619560

Shipment Date:	20010814
Creation Date:	10/3/2001 0:00:00
Receipt Date:	20010814
Manifest ID:	20514270
Trans EPA ID:	CAL000113451
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000113451
Trans Name:	Not reported
TSDF Alt EPA ID:	CAL000113451
TSDF Alt Name:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.102
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010501
Creation Date:	6/20/2001 0:00:00
Receipt Date:	20010501
Manifest ID:	20515155
Trans EPA ID:	CAL000113451
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000113451
Trans Name:	Not reported
TSDF Alt EPA ID:	CAL000113451
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.085
Waste Quantity:	25
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010406
Creation Date:	6/27/2001 0:00:00
Receipt Date:	20010416
Manifest ID:	20117641
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010406
Creation Date:	6/27/2001 0:00:00
Receipt Date:	20010416
Manifest ID:	20117641
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	513 - Empty containers less than 30 gallons
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0075
Waste Quantity:	15
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010406
Creation Date:	6/27/2001 0:00:00
Receipt Date:	20010416
Manifest ID:	20117641
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	123 - Unspecified alkaline solution
RCRA Code:	D002
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.002
Waste Quantity:	4
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20010406
Creation Date:	6/27/2001 0:00:00
Receipt Date:	20010416
Manifest ID:	20117641
Trans EPA ID:	CAD982413262
Trans Name:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD028409019
TSDF Alt Name:	Not reported
Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D001
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.01
Waste Quantity:	20
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	2000
Gen EPA ID:	CAD983619560
Shipment Date:	20001228
Creation Date:	4/9/2001 0:00:00
Receipt Date:	20010117
Manifest ID:	99446853
Trans EPA ID:	CAL000113451
Trans Name:	Not reported
Trans 2 EPA ID:	CAD981446156
Trans 2 Name:	Not reported
TSDF EPA ID:	AZD009015389
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	512 - Other empty containers 30 gallons or more
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.0125
Waste Quantity:	25
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000913
Creation Date:	10/30/2000 0:00:00
Receipt Date:	20000913
Manifest ID:	20514828
Trans EPA ID:	CAL000113451
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000113451
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.102
Waste Quantity:	30
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000525
Creation Date:	8/1/2000 0:00:00
Receipt Date:	20000525
Manifest ID:	99446863
Trans EPA ID:	CAL000113451
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAL000113451
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	343 - Unspecified organic liquid mixture
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.17
Waste Quantity:	50
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Information:

Year:	1998
Gen EPA ID:	CAD983619560
Shipment Date:	19981026
Creation Date:	12/10/1998 0:00:00
Receipt Date:	19981027
Manifest ID:	98423686
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.231

WASTE MANAGEMENT OF HI-DESERT (Continued) **S123614993**

Waste Quantity:	55
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	19980305
Creation Date:	5/26/1998 0:00:00
Receipt Date:	19980317
Manifest ID:	96718631
Trans EPA ID:	CAD982413262
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD981696420
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD981696420
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	Not reported
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.189
Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

C15 **BILL'S DIESEL TRUCK & EQUIP** **CERS HAZ WASTE** **S104764303**
NW **4695 S OLD WOMAN SPRINGS RD** **San Bern. Co. Permit** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284** **CERS**
0.113 mi.
596 ft. **Site 1 of 4 in cluster C**

Relative:
Higher

Actual:
3743 ft.

CERS HAZ WASTE:

Name:	BILL'S DIESEL TRUCK & EQUIP
Address:	4695 S OLD WOMAN SPRINGS RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Site ID:	12383
CERS ID:	10036354
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	BILL'S DIESEL TRUCK & EQUIP
Address:	4695 S OLD WOMAN SPRINGS RD
City,State,Zip:	YUCCA VALLEY, CA 92284
Region:	SAN BERNARDINO
Facility ID:	FA0001483
Owner:	JONES, BILL
Permit Number:	PT0004645
Permit Category:	SMALL QUANTITY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	08/31/2024

BILL'S DIESEL TRUCK & EQUIP (Continued) **S104764303**

Name: BILL'S DIESEL TRUCK & EQUIP
Address: 4695 S OLD WOMAN SPRINGS RD
City,State,Zip: YUCCA VALLEY, CA 92284
Region: SAN BERNARDINO
Facility ID: FA0001483
Owner: JONES, BILL
Permit Number: PT0004644
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 08/31/2024

CERS:
Name: BILL'S DIESEL TRUCK & EQUIP
Address: 4695 S OLD WOMAN SPRINGS RD
City,State,Zip: YUCCA VALLEY, CA 92284
Site ID: 12383
CERS ID: 10036354
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 12383
Site Name: BILL'S DIESEL TRUCK & EQUIP
Violation Date: 12-15-2020
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 12/15/2020. Last HMBP submitted via CERS occurred on 02/25/2018. Violation corrected on site.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 12383
Site Name: BILL'S DIESEL TRUCK & EQUIP
Violation Date: 12-15-2020
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.
Violation Notes: Returned to compliance on 12/15/2020. Observed (1) 55 gallon drum of waste antifreeze to not have complete hazardous waste labeling. Violation corrected on site.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Site ID: 12383
Site Name: BILL'S DIESEL TRUCK & EQUIP
Violation Date: 12-15-2020
Citation: HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description: Failure to complete and electronically submit hazardous material

BILL'S DIESEL TRUCK & EQUIP (Continued) **S104764303**

inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 12/15/2020. Update the inventory to include: -(1) 55 gallon drum of solvent -(1) 251 cubic foot cylinder of oxygen Violation corrected on site.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 12383
Site Name: BILL'S DIESEL TRUCK & EQUIP
Violation Date: 11-04-2014
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 11/05/2014. NO BUSINESS PLAN IN CERS. LAST BP SUBMITTED 2/13/12.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS,

Site ID: 12383
Site Name: BILL'S DIESEL TRUCK & EQUIP
Violation Date: 12-01-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 01/07/2021. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Failure to note accumulation start date on Hazardous Waste containers.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS,

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-05-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-05-2024
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2017
Violations Found: No

BILL'S DIESEL TRUCK & EQUIP (Continued) **S104764303**

Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-01-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-04-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: INSPECTION - HW
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-04-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION - BP
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS,

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-15-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS,

Enforcement Action:
Site ID: 12383
Site Name: BILL'S DIESEL TRUCK & EQUIP
Site Address: 4695 S OLD WOMAN SPRINGS RD
Site City: YUCCA VALLEY
Site Zip: 92284

BILL'S DIESEL TRUCK & EQUIP (Continued) **S104764303**

Enf Action Date:	11-04-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS,

Affiliation:

Affiliation Type Desc:	Property Owner
Entity Name:	William Jones
Entity Title:	Not reported
Affiliation Address:	4695 Old Woman Springs RD
Affiliation City:	Yucca Valley
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92284
Affiliation Phone:	(760) 365-7764,

Affiliation Type Desc:	Operator
Entity Name:	William Jones
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(760) 285-8445,

Affiliation Type Desc:	Parent Corporation
Entity Name:	BILL'S DIESEL TRUCK & EQUIP
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401,

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	4695 S OLD WOMAN SPRINGS RD
Affiliation City:	YUCCA VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92284

BILL'S DIESEL TRUCK & EQUIP (Continued) **S104764303**

Affiliation Phone:	,
Affiliation Type Desc:	Identification Signer
Entity Name:	Deanna Leon-Jones
Entity Title:	Office
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	,
Affiliation Type Desc:	Legal Owner
Entity Name:	JONES, WILLIAM
Entity Title:	Not reported
Affiliation Address:	4695 Old Woman Springs Rd
Affiliation City:	YUCCA VALLEY
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92284
Affiliation Phone:	(760) 365-7764,
Affiliation Type Desc:	Environmental Contact
Entity Name:	WILLIAM W JONES
Entity Title:	Not reported
Affiliation Address:	4695 Old Woman Springs RD
Affiliation City:	YUCCA VALLEY
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92284
Affiliation Phone:	,

C16 **BILLS DIESEL** **HWTS** **S124787822**
NW **4695 OLD WOMAN SPRINGS RD** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284**
0.113 mi.
596 ft. **Site 2 of 4 in cluster C**

Relative:
Higher

Actual:
3743 ft.

HWTS:

Name:	BILLS DIESEL
Address:	4695 OLD WOMAN SPRINGS RD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAL000073199
Inactive Date:	06/30/2012
Create Date:	07/21/1993
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	4695 OLD WOMAN SPRINGS RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	YUCCA VALLEY, CA 922842020
Owner Name:	WILLIAM JONES
Owner Address:	55818 PIPES CANYON RD
Owner Address 2:	Not reported
Owner City,State,Zip:	YUCCA VALLEY, CA 922844506
Owner Phone:	Not reported
Owner Fax:	Not reported

BILLS DIESEL (Continued) **S124787822**

Contact Name:	WILLIAM JONES
Contact Address:	55818 PIPES CANYON RD
Contact Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 922844506
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.16861
Longitude:	-116.42304

C17 **BILLS DIESEL RPR** **RCRA-SQG** **1004676466**
NW **4695 OLD WOMAN SPRINGS RD** **CAR000085654**
< 1/8 **YUCCA VALLEY, CA 92284**
0.113 mi.
596 ft. **Site 3 of 4 in cluster C**

Relative: **Higher**

Actual: **3743 ft.**

RCRA Listings:

Date Form Received by Agency:	20001031
Handler Name:	Bills Diesel Rpr
Handler Address:	4695 Old Woman Springs Rd
Handler City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAR000085654
Contact Name:	BILL JONES
Contact Address:	4695 OLD WOMAN SPRINGS RD
Contact City,State,Zip:	YUCCA VALLEY, CA 92284
Contact Telephone:	909-471-8396
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	4695 OLD WOMAN SPRINGS RD
Mailing City,State,Zip:	YUCCA VALLEY, CA 92284
Owner Name:	Bill Jones
Owner Type:	Private
Operator Name:	Not reported
Operator Type:	Not reported
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No

BILLS DIESEL RPR (Continued) **1004676466**

Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20021007
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D000
Waste Description:	Not Defined
Waste Code:	D039
Waste Description:	Tetrachloroethylene

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name: BILL JONES	
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	4695 OLD WOMAN SPRINGS RD
Owner/Operator City,State,Zip:	YUCCA VALLEY, CA 92284
Owner/Operator Telephone:	909-471-8396
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	20001031
Handler Name: BILLS DIESEL RPR	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No

BILLS DIESEL RPR (Continued) **1004676466**

Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:
NAICS Codes: No NAICS Codes Found

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

C18 **BILL'S DIESEL** **HWTS** **S124944907**
NW **4695 OLD WOMAN SPRINGS RD** **N/A**
< 1/8 **YUCCA VALLEY, CA 92284**
0.113 mi.
596 ft. **Site 4 of 4 in cluster C**

Relative:
Higher

Actual:
3743 ft.

HWTS:

Name:	BILL'S DIESEL
Address:	4695 OLD WOMAN SPRINGS RD
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAR000085654
Inactive Date:	Not reported
Create Date:	04/03/2001
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	4695 OLD WOMAN SPRINGS RD
Mailing Address 2:	Not reported
Mailing City,State,Zip:	YUCCA VALLEY, CA 922840000
Owner Name:	BILL'S DIESEL
Owner Address:	4695 OLD WOMAN SPRINGS RD
Owner Address 2:	Not reported
Owner City,State,Zip:	YUCCA VALLEY, CA 922842020
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	BILL JONES
Contact Address:	4695 OLD WOMAN SPRINGS RD
Contact Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Active
Facility Type:	PERMANENT
Category:	FEDERAL
Latitude:	34.16861
Longitude:	-116.42304

B19
SSW
< 1/8
0.119 mi.
630 ft.

HI DESERT TRUCK & ENGINE RPR
56920 BUENA VISTA
YUCCA VALLEY, CA 92284

Site 7 of 7 in cluster B

HWTS **S124750194**
N/A

Relative:
Higher

Actual:
3742 ft.

HWTS:

Name:	HI DESERT TRUCK & ENGINE RPR
Address:	56920 BUENA VISTA
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAD982327421
Inactive Date:	06/30/1996
Create Date:	06/17/1988
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	56920 BUENA VISTA
Mailing Address 2:	Not reported
Mailing City,State,Zip:	YUCCA VALLEY, CA 922840000
Owner Name:	Not reported
Owner Address:	Not reported
Owner Address 2:	Not reported
Owner City,State,Zip:	Not reported
Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	DEACT PER VQ96-RK
Contact Address:	Not reported
Contact Address 2:	Not reported
City,State,Zip:	Not reported
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	33.759855
Longitude:	-117.907777

20
West
1/8-1/4
0.200 mi.
1058 ft.

FICARA PAVING CO INC
4712 CANYON ST
YUCCA VALLEY, CA 92284

HWTS **S124867063**
N/A

Relative:
Higher

Actual:
3756 ft.

HWTS:

Name:	FICARA PAVING CO INC
Address:	4712 CANYON ST
Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 92284
EPA ID:	CAL000321907
Inactive Date:	06/30/2009
Create Date:	07/06/2007
Last Act Date:	Not reported
Mailing Name:	Not reported
Mailing Address:	PO BOX 370
Mailing Address 2:	Not reported
Mailing City,State,Zip:	YUCCA VALLEY, CA 922860370
Owner Name:	FICARA PAVING CO INC
Owner Address:	7255 JOSHUA LANE SUITE D
Owner Address 2:	Not reported
Owner City,State,Zip:	YUCCA VALLEY, CA 922840000

FICARA PAVING CO INC (Continued) **S124867063**

Owner Phone:	Not reported
Owner Fax:	Not reported
Contact Name:	PAOLO FICARA
Contact Address:	PO BOX 370/7255 JOSHUA LANE STE D
Contact Address 2:	Not reported
City,State,Zip:	YUCCA VALLEY, CA 922862454
Contact Phone:	Not reported
Contact Fax:	Not reported
Facility Status:	Inactive
Facility Type:	PERMANENT
Category:	STATE
Latitude:	34.168096
Longitude:	-116.424773

NAICS:

EPA ID:	CAL000321907
Create Date:	2007-07-06 11:40:32.713
NAICS Code:	23411
NAICS Description:	Highway and Street Construction
Issued EPA ID Date:	2007-07-06 11:40:32.68000
Inactive Date:	2009-06-30 00:00:00
Facility Name:	FICARA PAVING CO INC
Facility Address:	4712 CANYON ST
Facility Address 2:	Not reported
Facility City:	YUCCA VALLEY
Facility County:	Not reported
Facility State:	CA
Facility Zip:	922842003

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Lists of Federal NPL (Superfund) sites

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 09/19/2024
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 09/19/2024
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Lists of Federal Delisted NPL sites

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 09/19/2024
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 06/07/2024
Date Data Arrived at EDR: 06/25/2024
Date Made Active in Reports: 09/19/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 06/25/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 07/24/2024
Date Data Arrived at EDR: 08/01/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 07/24/2024
Date Data Arrived at EDR: 08/01/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 04/04/2024
Number of Days to Update: 48

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 07/31/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/24/2024
Date Data Arrived at EDR: 08/08/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/24/2024
Date Data Arrived at EDR: 08/08/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 06/11/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 79

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

Lists of state- and tribal (Superfund) equivalent sites

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 04/23/2024
Date Made Active in Reports: 07/17/2024
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 04/23/2024
Date Made Active in Reports: 07/17/2024
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 05/06/2024
Date Data Arrived at EDR: 05/07/2024
Date Made Active in Reports: 07/30/2024
Number of Days to Update: 84

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 08/06/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Quarterly

Lists of state and tribal leaking storage tanks

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)
Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/30/2024
Number of Days to Update: 2
Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

LUST REG 2: Fuel Leak List
Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30
Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing
For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27
Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database
Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14
Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing
Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22
Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/11/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/07/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 03/15/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 90

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases
UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 02/13/2024
Date Data Arrived at EDR: 03/05/2024
Date Made Active in Reports: 06/03/2024
Number of Days to Update: 90

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 09/04/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/30/2024
Number of Days to Update: 2

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/11/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 05/14/2024
Date Data Arrived at EDR: 05/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 90

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties
Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 04/23/2024
Date Made Active in Reports: 07/17/2024
Number of Days to Update: 85
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 06/17/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/10/2024
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 06/10/2024
Date Data Arrived at EDR: 06/11/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/11/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 04/04/2024
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 04/15/2024
Number of Days to Update: 10

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 07/31/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/22/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 05/21/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 79

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/19/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 04/22/2024
Date Data Arrived at EDR: 04/23/2024
Date Made Active in Reports: 07/17/2024
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 07/22/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 06/12/2024
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: California Environmental Reporting System Hazardous Waste

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 07/10/2024
Date Data Arrived at EDR: 07/10/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 2

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 05/20/2024
Date Data Arrived at EDR: 05/21/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 79

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/19/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 04/29/2024
Date Data Arrived at EDR: 04/30/2024
Date Made Active in Reports: 07/23/2024
Number of Days to Update: 84

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks
List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 07/10/2024
Date Data Arrived at EDR: 07/10/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 2
Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 05/31/2024
Date Data Arrived at EDR: 06/21/2024
Date Made Active in Reports: 09/11/2024
Number of Days to Update: 82
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 09/18/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 09/19/2024
Number of Days to Update: 16
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing
Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 05/28/2024
Date Data Arrived at EDR: 05/29/2024
Date Made Active in Reports: 08/20/2024
Number of Days to Update: 83
Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 06/14/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 06/24/2024
Number of Days to Update: 7
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 02/01/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/11/2024
Number of Days to Update: 86

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/30/2024
Number of Days to Update: 2

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/30/2024
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 06/20/2024
Number of Days to Update: 13

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 86

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/12/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 06/07/2021
Date Data Arrived at EDR: 07/13/2021
Date Made Active in Reports: 03/09/2022
Number of Days to Update: 239

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 07/30/2021
Date Data Arrived at EDR: 02/03/2023
Date Made Active in Reports: 02/10/2023
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 08/05/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 06/10/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA Watch List

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: No Update Planned

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 06/14/2022
Date Made Active in Reports: 03/24/2023
Number of Days to Update: 283

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/12/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/13/2023
Date Made Active in Reports: 02/07/2024
Number of Days to Update: 86

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 08/15/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 07/11/2024
Date Data Arrived at EDR: 07/11/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 1

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 09/19/2024
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 09/19/2023
Date Data Arrived at EDR: 10/03/2023
Date Made Active in Reports: 10/19/2023
Number of Days to Update: 16

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 03/20/2023
Date Data Arrived at EDR: 04/04/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 66

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 06/06/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 89
Source: Nuclear Regulatory Commission
Telephone: 301-415-0717
Last EDR Contact: 07/11/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 11/27/2023
Date Made Active in Reports: 02/22/2024
Number of Days to Update: 87
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 08/27/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 08/01/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 09/18/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2024
Date Data Arrived at EDR: 04/19/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 03/20/2023
Number of Days to Update: 11

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 03/03/2023
Date Data Arrived at EDR: 03/03/2023
Date Made Active in Reports: 06/09/2023
Number of Days to Update: 98

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 05/08/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 14

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 08/27/2024
Date Data Arrived at EDR: 09/03/2024
Date Made Active in Reports: 09/19/2024
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/03/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data
A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 04/01/2024
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 99

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Quarterly

US MINES: Mines Master Index File
Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/06/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 1

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/14/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing
This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 05/22/2024
Date Made Active in Reports: 08/15/2024
Number of Days to Update: 85

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing
Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines
An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/13/2024
Date Data Arrived at EDR: 06/14/2024
Date Made Active in Reports: 09/04/2024
Number of Days to Update: 82

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 08/23/2022
Date Data Arrived at EDR: 11/22/2022
Date Made Active in Reports: 02/28/2023
Number of Days to Update: 98

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

FINDS: Facility Index System/Facility Registry System
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/13/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 8

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites
A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023
Date Data Arrived at EDR: 09/13/2023
Date Made Active in Reports: 12/11/2023
Number of Days to Update: 89

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 06/23/2024
Date Data Arrived at EDR: 06/28/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 14

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/28/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/06/2021
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 86

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 703-603-8895
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-566-0250
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST_HANDLING_INSTR), Non-hazardous waste description (NON_HAZ_WASTE_DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020
Date Data Arrived at EDR: 03/17/2021
Date Made Active in Reports: 11/08/2022
Number of Days to Update: 601

Source: Department of Health & Human Services
Telephone: 202-741-5770
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 62

Source: Social Science Environmental Health Research Institute
Telephone: N/A
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-272-0167
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/01/2024
Date Data Arrived at EDR: 07/01/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 11

Source: Environmental Protection Agency
Telephone: 202-267-2675
Last EDR Contact: 07/01/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29

Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/10/2017
Number of Days to Update: 63

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: No Update Planned

BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 04/14/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-564-4700
Last EDR Contact: 07/16/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/31/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 79

Source: Environmental Protecton Agency
Telephone: 202-564-0394
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Semi-Annually

UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories . UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023
Date Data Arrived at EDR: 10/04/2023
Date Made Active in Reports: 01/18/2024
Number of Days to Update: 106

Source: Environmental Protection Agency
Telephone: 202-564-0394
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as ?e-Manifest,? will modernize the nation?s cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023
Date Data Arrived at EDR: 04/18/2024
Date Made Active in Reports: 06/06/2024
Number of Days to Update: 49

Source: Environmental Protection Agency
Telephone: 833-501-6826
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Varies

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS sites included in the Envirostor and GeoTracker databases. Locations of potential sources of per - and polyfluoroalkyl substances (PFAS). This does not mean that PFAS has been produced, used, or discharged at these sites.

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 09/03/2024
Number of Days to Update: 6

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

AQUEOUS FOAM: Former Fire Training Facility Assessments Listing

Airports shown on this list are those believed to use Aqueous Film Forming Foam (AFFF), and certified by the Federal Aviation Administration (FAA) under Title 14, Code of Federal Regulations (CFR), Part 139 (14 CFR Part 139). This list was created by SWRCB using information available from the FAA. Location points shown are from the latitude and longitude listed on the FAA airport master record.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/04/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CHROME PLATING: Chrome Plating Facilities Listing

This listing represents chrome plating facilities the California State Water Resources Control Board staff identified as possibly being a source of Per- and polyfluoroalkyl substance (PFAS) contamination. Sites and locations were identified by staff with the Division of Water Quality in the California State Water Board. Data was collected from the CA Air Resources Board 2013 and 2018 - Cr VI emission survey, CA Emission Inventory, CA HAZ Waste discharge database and by reviewing storm water permits. Former chrome plating sites are also included that are open site investigation or remediation cases with the Regional Water Quality Control Boards and the Department of Toxic Substances Control.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/04/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 85

Source: State Water Resources Control Board
Telephone: 916-341-5455
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 06/17/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/10/2024
Number of Days to Update: 85

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

CUPA LIV-PLE: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 02/14/2024
Date Data Arrived at EDR: 02/21/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 77

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

DRYCLEAN SACRAMENTO: Sacramento Metropolitan Air Quality Management DistrictDrycleaner Facility Listing
A listing of drycleaner facility locations, for the Sacramento Metropolitan Air Quality Management District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77
Source: Sacramento Metropolitan Air Quality Management District
Telephone: 916-874-3958
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN YOLO-SOLANO: Yolo-Solano Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Yolo-Solano Air Quality Management District.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/05/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 75
Source: Yolo-Solano Air Quality Management District
Telephone: 530-757-3650
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN IMPERIAL: Imperial County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Imperial County Air Pollution Control District

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79
Source: Imperial County Air Pollution Control District
Telephone: 442-265-1800
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN EAST KERN: Eastern Kern Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Eastern Kern Air Pollution Control District.

Date of Government Version: 01/12/2023
Date Data Arrived at EDR: 04/26/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 79
Source: Eastern Kern Air Pollution Control District
Telephone: 661-862-9684
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MENDOCINO: Mendocino County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Mendocino County Air Quality Management District.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/28/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 77
Source: Mendocino County Air Quality Management District
Telephone: 707-463-4354
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/26/2024
Date Data Arrived at EDR: 02/27/2024
Date Made Active in Reports: 05/15/2024
Number of Days to Update: 78
Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Varies

DRYCLEAN LAKE: Lake County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Lake County Air Quality Management District,

Date of Government Version: 02/15/2024
Date Data Arrived at EDR: 02/16/2024
Date Made Active in Reports: 05/02/2024
Number of Days to Update: 76
Source: Lake County Air Quality Management District
Telephone: 707-263-7000
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GRANT: Grant Recipients List

Assembly Bill 998 (AB 998) established the Non-Toxic Dry Cleaning Incentive Program to provide financial assistance to the dry cleaning industry to switch from systems using perchloroethylene (Perc), an identified toxic air contaminant and potential human carcinogen, to non-toxic and non-smog forming alternatives.

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 01/26/2024
Date Made Active in Reports: 04/16/2024
Number of Days to Update: 81

Source: California Air Resources Board
Telephone: 916-323-0006
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/02/2024
Date Data Arrived at EDR: 04/05/2024
Date Made Active in Reports: 04/15/2024
Number of Days to Update: 10

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Annually

DRYCLEAN SAN DIEGO: San Diego County Air Pollution Control District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the San Diego County Air Pollution Control District.

Date of Government Version: 03/19/2024
Date Data Arrived at EDR: 03/21/2024
Date Made Active in Reports: 04/12/2024
Number of Days to Update: 22

Source: San Diego County Air Pollution Control District
Telephone: 858-586-2616
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN FEATHER RVR: Feather River Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Feather River Air Quality Management District.

Date of Government Version: 03/08/2023
Date Data Arrived at EDR: 03/09/2023
Date Made Active in Reports: 06/05/2023
Number of Days to Update: 88

Source: Feather River Air Quality Management District
Telephone: 530-634-7659
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN BUTTE: Butte County Air Quality Management DistrictDrycleaner Facility Listing

Butte County Air Quality Management DistrictDrycleaner Facility Listing.

Date of Government Version: 04/25/2023
Date Data Arrived at EDR: 10/18/2023
Date Made Active in Reports: 01/16/2024
Number of Days to Update: 90

Source: Butte County Air Quality Management District
Telephone: 530-332-9400
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MOJAVE: Mojave Desert Air Quality Management District Drycleaner Facility Listing

A listing of drycleaner facility locations, for the Mojave Desert Air Quality Management District.

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 04/24/2024
Number of Days to Update: 7

Source: Mojave Desert Air Quality Management District
Telephone: 760-245-1661
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN MONTERY BAY: Monterey Bay Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Monterey Bay Air Quality Management District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/05/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 75
Source: Monterey Bay Air Quality Management District
Telephone: 831-647-9411
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN LUIS OB: San Luis Obispo County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Luis Obispo County Air Pollution Control District.

Date of Government Version: 01/03/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/20/2024
Number of Days to Update: 76
Source: San Luis Obispo County Air Pollution Control District
Telephone: 805-781-5756
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SHASTA: Shasta County Air Quality Management District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Shasta County Air Quality Management District.

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/14/2023
Number of Days to Update: 78
Source: Shasta County Air Quality Management District
Telephone: 530-225-5674
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SONOMA: Norther Sonoma County County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sonoma County Air Pollution Control District.,

Date of Government Version: 01/05/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77
Source: Santa Barbara County Air Pollution Control District
Telephone: 707-433-5911
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN GLENN: Glenn County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Glenn County Air Pollution Control District.

Date of Government Version: 01/08/2024
Date Data Arrived at EDR: 01/10/2024
Date Made Active in Reports: 03/27/2024
Number of Days to Update: 77
Source: Glenn County Air Pollution Control District
Telephone: 530-934-6500
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN TEHAMA: Tehama County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Tehama County Air Pollution Control District.

Date of Government Version: 04/24/2019
Date Data Arrived at EDR: 04/24/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1468
Source: Tehama County Air Pollution Control District
Telephone: 530-527-3717
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN VENTURA: Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Ventura County Air Pollution Control District.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/16/2024
Date Made Active in Reports: 02/08/2024
Number of Days to Update: 23
Source: Ventura County Air Pollution Control District
Telephone: 805-645-1421
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SANTA BARB: Santa Barbara County Air Pollution Control District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Santa Barbara County Air Pollution Control District.

Date of Government Version: 02/19/2019
Date Data Arrived at EDR: 04/17/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1475
Source: Santa Barbara County Air Pollution Control District
Telephone: 805-961-8867
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N SIERRA: Northern Sierra Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Northern Sierra Air Quality Management District,

Date of Government Version: 05/07/2019
Date Data Arrived at EDR: 05/07/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1455
Source: Northern Sierra Air Quality Management District
Telephone: 530-274-9350
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 05/21/2024
Date Data Arrived at EDR: 05/23/2024
Date Made Active in Reports: 08/19/2024
Number of Days to Update: 88
Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

DRYCLEAN AMADOR: Amador Air District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Amador Air Quality Management District

Date of Government Version: 04/26/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77
Source: Amador Air Quality Management District
Telephone: 209-257-0112
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN N COAST: North Coast Unified Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the North Coast Unified Air Quality Management District.

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 04/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1473
Source: North Coast Unified Air Quality Management District
Telephone: 707-443-3093
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN CALAVERAS: Calaveras County Environmental Management Agency Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Calaveras County Environmental Management Agency.

Date of Government Version: 06/17/2019
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1412
Source: Calaveras County Environmental Management Agency
Telephone: 209-754-6399
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/16/2019
Data Release Frequency: Varies

DRYCLEAN BAY AREA: Bay Area Air Quality Management District Drycleaner Facility Listing
Bay Area Air Quality Management District Drycleaner Facility Listing.

Date of Government Version: 02/20/2019
Date Data Arrived at EDR: 05/30/2019
Date Made Active in Reports: 05/01/2023
Number of Days to Update: 1432
Source: Bay Area Air Quality Management District
Telephone: 415-516-1916
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN SAN JOAQUIN: San Joaquin Valley Air Pollution Control District District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the San Joaquin Valley Air Pollution Control District.

Date of Government Version: 01/04/2024
Date Data Arrived at EDR: 01/04/2024
Date Made Active in Reports: 03/21/2024
Number of Days to Update: 77

Source: San Joaquin Valley Air Pollution Control District
Telephone: 559-230-6001
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

DRYCLEAN PLACER: Placer County Air Quality Management District Drycleaner Facility Listing
A listing of drycleaner facility locations, for the Placer County Air Quality Management District.

Date of Government Version: 05/15/2023
Date Data Arrived at EDR: 05/17/2023
Date Made Active in Reports: 08/14/2023
Number of Days to Update: 89

Source: Placer County Air Quality Management District
Telephone: 530-745-2335
Last EDR Contact: 08/21/2024
Next Scheduled EDR Contact: 09/11/2023
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 06/11/2024
Date Made Active in Reports: 09/03/2024
Number of Days to Update: 84

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 09/11/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 87

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 07/16/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

FIN ASSURANCE 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 04/12/2024
Date Data Arrived at EDR: 04/12/2024
Date Made Active in Reports: 07/09/2024
Number of Days to Update: 88

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

FIN ASSURANCE 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 08/07/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 14

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 07/31/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Varies

ICE: Inspection, Compliance and Enforcement
Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/07/2024
Number of Days to Update: 85

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 08/12/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/07/2024
Number of Days to Update: 85

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/12/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/02/2024
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 83

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Quarterly

HWTS: Hazardous Waste Tracking System

DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 07/19/2024
Date Data Arrived at EDR: 07/30/2024
Date Made Active in Reports: 08/28/2024
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2023
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 83

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 07/02/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/04/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 86
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 09/04/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 05/29/2024
Date Made Active in Reports: 08/20/2024
Number of Days to Update: 83
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 05/06/2024
Date Data Arrived at EDR: 05/07/2024
Date Made Active in Reports: 07/31/2024
Number of Days to Update: 85
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 08/06/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 05/28/2024
Date Data Arrived at EDR: 05/29/2024
Date Made Active in Reports: 08/20/2024
Number of Days to Update: 83
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/30/2024
Number of Days to Update: 2
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 06/06/2024
Date Data Arrived at EDR: 06/07/2024
Date Made Active in Reports: 09/03/2024
Number of Days to Update: 88
Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82
Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Annually

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 09/02/2024
Date Data Arrived at EDR: 09/04/2024
Date Made Active in Reports: 09/05/2024
Number of Days to Update: 1
Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 09/04/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1
Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 07/01/2021
Date Made Active in Reports: 09/29/2021
Number of Days to Update: 90
Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9
Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13
Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)
Military privatized sites

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)
Projects sites

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing
In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 06/03/2024
Date Data Arrived at EDR: 06/04/2024
Date Made Active in Reports: 08/30/2024
Number of Days to Update: 87

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 09/04/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System
The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 08/20/2024
Date Data Arrived at EDR: 08/20/2024
Date Made Active in Reports: 08/22/2024
Number of Days to Update: 2

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data
The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 07/10/2024
Date Data Arrived at EDR: 07/10/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 2

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)
Non-Case Information sites

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)
Other Oil & Gas Projects sites

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)
Produced water ponds sites

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)
Sampling point - public sites

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 08/28/2024
Date Data Arrived at EDR: 08/28/2024
Date Made Active in Reports: 08/29/2024
Number of Days to Update: 1

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks
Underground storage tank sites located in Alameda county.

Date of Government Version: 12/26/2023
Date Data Arrived at EDR: 12/26/2023
Date Made Active in Reports: 03/19/2024
Number of Days to Update: 84

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List
Cupa Facility List

Date of Government Version: 04/27/2023
Date Data Arrived at EDR: 04/27/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 77

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing
Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 03/01/2024
Date Data Arrived at EDR: 03/19/2024
Date Made Active in Reports: 06/11/2024
Number of Days to Update: 84

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 04/11/2024
Date Data Arrived at EDR: 04/23/2024
Date Made Active in Reports: 07/17/2024
Number of Days to Update: 85

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 02/05/2024
Date Data Arrived at EDR: 02/08/2024
Date Made Active in Reports: 04/26/2024
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/08/2022
Date Data Arrived at EDR: 08/09/2022
Date Made Active in Reports: 09/01/2022
Number of Days to Update: 23

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 06/28/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/03/2022
Number of Days to Update: 72

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/27/2024
Next Scheduled EDR Contact: 10/07/2024
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 08/12/2021
Date Data Arrived at EDR: 08/12/2021
Date Made Active in Reports: 11/08/2021
Number of Days to Update: 88

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 86

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 05/23/2024
Date Data Arrived at EDR: 06/11/2024
Date Made Active in Reports: 06/17/2024
Number of Days to Update: 6

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 04/25/2024
Date Data Arrived at EDR: 05/01/2024
Date Made Active in Reports: 05/08/2024
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 07/26/2024
Date Data Arrived at EDR: 07/29/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 10

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 07/08/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 07/02/2024
Date Data Arrived at EDR: 07/08/2024
Date Made Active in Reports: 07/10/2024
Number of Days to Update: 2

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/08/2024
Date Data Arrived at EDR: 04/09/2024
Date Made Active in Reports: 07/08/2024
Number of Days to Update: 90

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 07/09/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 12/31/2022
Date Data Arrived at EDR: 01/12/2023
Date Made Active in Reports: 03/29/2023
Number of Days to Update: 76

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills
This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 04/13/2023
Date Data Arrived at EDR: 07/13/2023
Date Made Active in Reports: 09/27/2023
Number of Days to Update: 76

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 07/09/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory
A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/10/2024
Number of Days to Update: 85

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory
A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2024
Date Data Arrived at EDR: 06/17/2024
Date Made Active in Reports: 09/10/2024
Number of Days to Update: 85

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 09/17/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation LA County List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 07/11/2023
Date Data Arrived at EDR: 10/17/2023
Date Made Active in Reports: 01/09/2024
Number of Days to Update: 84

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 07/16/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 04/16/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 86

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 07/12/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 09/18/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 09/22/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 11/22/2021
Number of Days to Update: 4

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 11/15/2023
Date Data Arrived at EDR: 11/20/2023
Date Made Active in Reports: 02/15/2024
Number of Days to Update: 87

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 07/17/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 10/04/2021
Date Data Arrived at EDR: 10/06/2021
Date Made Active in Reports: 12/29/2021
Number of Days to Update: 84

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 09/18/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 04/23/2024
Date Data Arrived at EDR: 04/25/2024
Date Made Active in Reports: 06/26/2024
Number of Days to Update: 62

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups Orange County
Petroleum and non-petroleum spills.

Date of Government Version: 02/02/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/04/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 02/22/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/04/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/22/2024
Date Data Arrived at EDR: 03/13/2024
Date Made Active in Reports: 06/04/2024
Number of Days to Update: 83

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 07/30/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/22/2024
Date Data Arrived at EDR: 05/23/2024
Date Made Active in Reports: 08/19/2024
Number of Days to Update: 88

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 06/11/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/27/2024
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 06/11/2024
Date Data Arrived at EDR: 06/12/2024
Date Made Active in Reports: 06/27/2024
Number of Days to Update: 15

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/21/2022
Date Made Active in Reports: 03/16/2023
Number of Days to Update: 85

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/23/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/07/2022
Date Data Arrived at EDR: 12/09/2022
Date Made Active in Reports: 03/01/2023
Number of Days to Update: 82

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 09/23/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2024
Date Data Arrived at EDR: 08/01/2024
Date Made Active in Reports: 08/07/2024
Number of Days to Update: 6

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 08/13/2024
Date Data Arrived at EDR: 08/14/2024
Date Made Active in Reports: 08/20/2024
Number of Days to Update: 6

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2024
Date Data Arrived at EDR: 05/22/2024
Date Made Active in Reports: 05/24/2024
Number of Days to Update: 2

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 08/22/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2023
Date Data Arrived at EDR: 01/31/2024
Date Made Active in Reports: 04/17/2024
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/22/2021
Date Data Arrived at EDR: 10/19/2021
Date Made Active in Reports: 01/13/2022
Number of Days to Update: 86

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 04/29/2024
Date Data Arrived at EDR: 04/30/2024
Date Made Active in Reports: 07/23/2024
Number of Days to Update: 84

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 07/23/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 04/29/2024
Date Data Arrived at EDR: 04/30/2024
Date Made Active in Reports: 07/23/2024
Number of Days to Update: 84

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Quarterly

SAN FRANCISO COUNTY:

SAN FRANCISCO MAHER: Maher Ordinance Property Listing
a listing of properties that fall within a Maher Ordinance, for all of San Francisco

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 04/16/2024
Date Made Active in Reports: 07/15/2024
Number of Days to Update: 90

Source: San Francisco Planning
Telephone: 628-652-7483
Last EDR Contact: 07/16/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/23/2024
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/13/2024
Date Data Arrived at EDR: 05/14/2024
Date Made Active in Reports: 08/08/2024
Number of Days to Update: 86

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 09/05/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 08/27/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 05/16/2024
Date Data Arrived at EDR: 05/16/2024
Date Made Active in Reports: 08/07/2024
Number of Days to Update: 83
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 08/13/2024
Next Scheduled EDR Contact: 12/02/2024
Data Release Frequency: No Update Planned

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

SITE MIT SANTA CRUZ: Site Mitigation Santa Cruz County List
Sites may become contaminated with toxic chemicals through illegal dumping or disposal, from leaking underground storage tanks, or through industrial or commercial activities.The goal of the site mitigation program is to protect the public health and the environment while facilitating completion of contaminated site clean-up projects in a timely manner.

Date of Government Version: 12/03/2018
Date Data Arrived at EDR: 06/23/2023
Date Made Active in Reports: 07/13/2023
Number of Days to Update: 20

Source: Santa Cruz Environmental Health Services
Telephone: 831-454-2761
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 08/07/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 09/15/2021
Date Data Arrived at EDR: 09/16/2021
Date Made Active in Reports: 12/09/2021
Number of Days to Update: 84

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 07/02/2021
Date Data Arrived at EDR: 07/06/2021
Date Made Active in Reports: 07/14/2021
Number of Days to Update: 8

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/24/2021
Number of Days to Update: 86

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 09/10/2024
Next Scheduled EDR Contact: 12/30/2024
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/08/2022
Date Data Arrived at EDR: 02/10/2022
Date Made Active in Reports: 05/04/2022
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 04/12/2024
Date Data Arrived at EDR: 06/05/2024
Date Made Active in Reports: 08/30/2024
Number of Days to Update: 86

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 12/09/2024
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 12/05/2023
Date Data Arrived at EDR: 02/01/2024
Date Made Active in Reports: 02/28/2024
Number of Days to Update: 27

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 08/20/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 04/15/2024
Date Data Arrived at EDR: 04/17/2024
Date Made Active in Reports: 07/12/2024
Number of Days to Update: 86

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 10/07/2022
Date Data Arrived at EDR: 10/07/2022
Date Made Active in Reports: 12/21/2022
Number of Days to Update: 75

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 07/24/2024
Next Scheduled EDR Contact: 11/11/2024
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 07/10/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 07/02/2024
Date Data Arrived at EDR: 07/17/2024
Date Made Active in Reports: 07/23/2024
Number of Days to Update: 6

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/15/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/18/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 07/31/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 07/02/2024
Date Data Arrived at EDR: 07/18/2024
Date Made Active in Reports: 07/23/2024
Number of Days to Update: 5

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 07/15/2024
Next Scheduled EDR Contact: 10/28/2024
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 05/28/2024
Date Data Arrived at EDR: 06/04/2024
Date Made Active in Reports: 08/30/2024
Number of Days to Update: 87

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/04/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/22/2024
Date Data Arrived at EDR: 04/04/2024
Date Made Active in Reports: 06/27/2024
Number of Days to Update: 84

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 09/18/2024
Next Scheduled EDR Contact: 01/06/2025
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/19/2024
Date Data Arrived at EDR: 04/23/2024
Date Made Active in Reports: 07/15/2024
Number of Days to Update: 83

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 07/18/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 05/05/2024
Date Data Arrived at EDR: 05/07/2024
Date Made Active in Reports: 08/01/2024
Number of Days to Update: 86

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/06/2024
Next Scheduled EDR Contact: 11/18/2024
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 06/26/2024
Next Scheduled EDR Contact: 10/14/2024
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 11/30/2023
Date Made Active in Reports: 12/01/2023
Number of Days to Update: 1

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/25/2024
Next Scheduled EDR Contact: 11/04/2024
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/03/2024
Next Scheduled EDR Contact: 10/21/2024
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/18/2022
Number of Days to Update: 80

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/08/2024
Next Scheduled EDR Contact: 11/26/2024
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 08/28/2024
Next Scheduled EDR Contact: 12/16/2024
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

YUCCA VALLEY PROPERTY
NEWTON LANE
YUCCA VALLEY, CA 92284

TARGET PROPERTY COORDINATES

Latitude (North):	34.166982 - 34° 10' 1.14''
Longitude (West):	116.420805 - 116° 25' 14.90''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	553384.1
UTM Y (Meters):	3780627.5
Elevation:	3721 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	50004086 YUCCA VALLEY NORTH, CA
Version Date:	2021

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

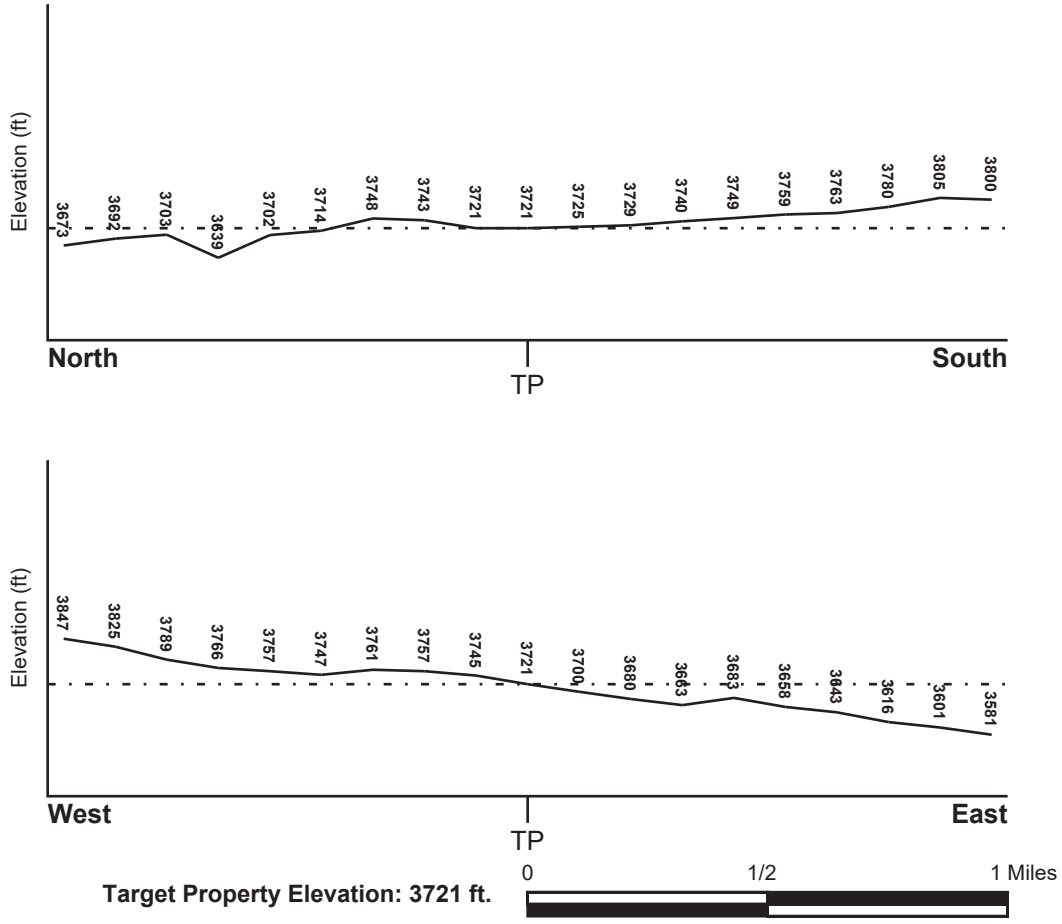
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06071C8120H	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8115H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
YUCCA VALLEY NORTH	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Precambrian
System:	Precambrian
Series:	Orthogneiss and paragneiss
Code:	Xm *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Metamorphic Rocks

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	HANFORD
Soil Surface Texture:	coarse sandy loam
Hydrologic Group:	Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.
Soil Drainage Class:	Well drained. Soils have intermediate water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	12 inches	coarse sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 5.60
2	12 inches	50 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 5.60
3	50 inches	60 inches	gravelly - fine sandy loam	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 5.60

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam
gravelly - sandy loam
loamy sand
stony - loam
cobbly - loamy sand

Surficial Soil Types: sandy loam
gravelly - sandy loam
loamy sand
stony - loam
cobbly - loamy sand

Shallow Soil Types: gravelly - loam
very cobbly - loam

Deeper Soil Types: stratified
gravelly - sandy loam
weathered bedrock

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	USGS40000142318	1/4 - 1/2 Mile NW
B3	USGS40000142295	1/4 - 1/2 Mile West
4	USGS40000142342	1/4 - 1/2 Mile NNW
C8	USGS40000142260	1/2 - 1 Mile ESE
D9	USGS40000142222	1/2 - 1 Mile SSE
E10	USGS40000142359	1/2 - 1 Mile NNW
F12	USGS40000142296	1/2 - 1 Mile West
G15	USGS40000142187	1/2 - 1 Mile SE
H16	USGS40000142297	1/2 - 1 Mile West
H17	USGS40000142291	1/2 - 1 Mile West

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

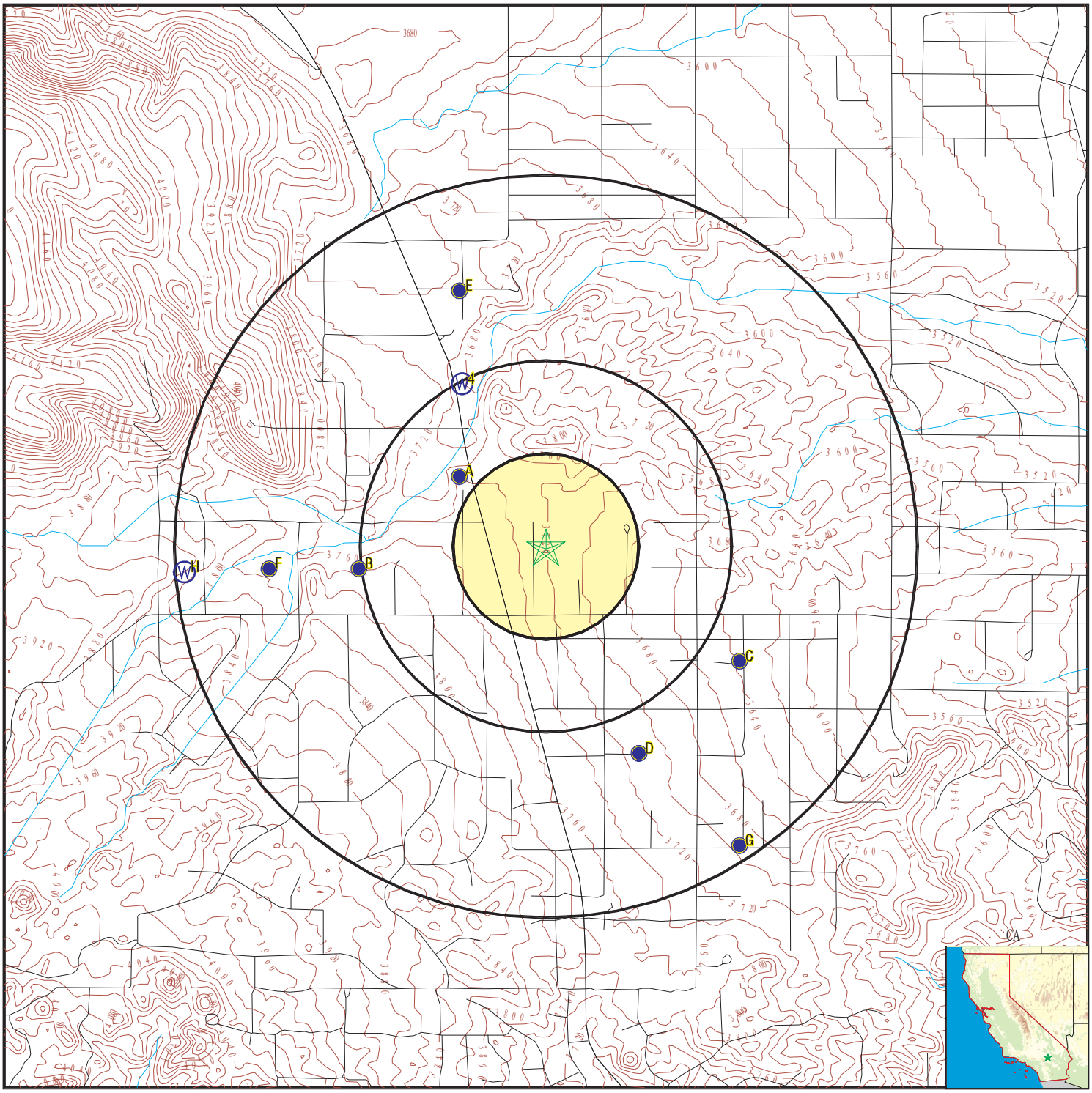
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A2	CADWR9000007437	1/4 - 1/2 Mile NW
B5	CADWR9000007411	1/2 - 1 Mile West
C6	CADWR9000007382	1/2 - 1 Mile ESE
D7	CADWR9000007342	1/2 - 1 Mile SSE
E11	CADWR9000007472	1/2 - 1 Mile NNW
F13	CADWR9000007412	1/2 - 1 Mile West
G14	CADWR9000007315	1/2 - 1 Mile SSE

PHYSICAL SETTING SOURCE MAP - 7773517.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Yucca Valley Property	CLIENT:	Ninyo & Moore
ADDRESS:	Newton Lane Yucca Valley CA 92284	CONTACT:	Gabriel Haro
LAT/LONG:	34.166982 / 116.420805	INQUIRY #:	7773517.2s
		DATE:	September 24, 2024 5:51 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A1
NW
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000142318**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N005E14J001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	168
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1969-03-19
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		

Level reading date:	1958-01-23	Feet below surface:	167
Feet to sea level:	Not Reported	Note:	Not Reported

A2
NW
1/4 - 1/2 Mile
Higher | **CA WELLS** | **CADWR9000007437**

State Well #:	01N05E14J001S	Station ID:	27009
Well Name:	Not Reported	Basin Name:	Copper Mountain Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

B3
West
1/4 - 1/2 Mile
Higher | **FED USGS** | **USGS40000142295**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N005E14Q001S	Type:	Well
Description:	GENERATD LAT/LONG. +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	120
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1969-03-19
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		

Level reading date:	1958-02-12	Feet below surface:	100
Feet to sea level:	Not Reported	Note:	Not Reported

4
NNW
1/4 - 1/2 Mile
Lower

FED USGS **USGS40000142342**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N005E14H001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	195806	Well Depth:	204
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

B5
West
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000007411**

State Well #:	01N05E14Q001S	Station ID:	27011
Well Name:	Not Reported	Basin Name:	Copper Mountain Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

C6
ESE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000007382**

State Well #:	01N05E24B001S	Station ID:	26612
Well Name:	Not Reported	Basin Name:	Copper Mountain Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

D7
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000007342**

State Well #:	01N05E24F001S	Station ID:	3088
Well Name:	Not Reported	Basin Name:	Copper Mountain Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

C8
ESE **FED USGS** **USGS40000142260**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N005E24B001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19570501	Well Depth:	192
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1969-06-19
Feet below surface:	160.73	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-02-12	Feet below surface:	131.54
Feet to sea level:	Not Reported	Note:	Not Reported

D9
SSE **FED USGS** **USGS40000142222**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N005E24F001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Other aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	195708	Well Depth:	108
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1969-03-19
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		

Level reading date:	1958-02-12	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

E10
NNW **FED USGS** **USGS40000142359**
1/2 - 1 Mile
Lower

Organization ID:	USGS-CA
Organization Name:	USGS California Water Science Center

Monitor Location:	001N005E14A001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1957	Well Depth:	442
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1958-01-23
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		

Level reading date:	1957-10	Feet below surface:	Not Reported
Feet to sea level:	Not Reported		
Note:	The site was dry (no water level recorded).		

E11
NNW
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000007472**

State Well #:	01N05E14A001S	Station ID:	39771
Well Name:	Not Reported	Basin Name:	Copper Mountain Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

F12
West
1/2 - 1 Mile
Higher

FED USGS **USGS40000142296**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N005E14P001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	172
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958
Feet below surface:	82	Feet to sea level:	Not Reported
Note:	Not Reported		

F13
West
1/2 - 1 Mile
Higher

CA WELLS **CADWR9000007412**

State Well #:	01N05E14P001S	Station ID:	2541
Well Name:	Not Reported	Basin Name:	Copper Mountain Valley

Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G14
SSE
1/2 - 1 Mile
Lower

CA WELLS **CADWR9000007315**

State Well #:	01N05E24K001S	Station ID:	26613
Well Name:	Not Reported	Basin Name:	Copper Mountain Valley
Well Use:	Unknown	Well Type:	Unknown
Well Depth:	0	Well Completion Rpt #:	Not Reported

G15
SE
1/2 - 1 Mile
Lower

FED USGS **USGS40000142187**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N005E24K001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Other aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	1952	Well Depth:	215.2
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	1	Level reading date:	1958-01-24
Feet below surface:	Not Reported	Feet to sea level:	Not Reported
Note:	The site was dry (no water level recorded).		

H16
West
1/2 - 1 Mile
Higher

FED USGS **USGS40000142297**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N005E14N001S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	Not Reported	Well Depth:	85
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1969-06
Feet below surface:	66.0	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-01-23	Feet below surface:	60
Feet to sea level:	Not Reported	Note:	Not Reported

H17
West
1/2 - 1 Mile
Higher

FED USGS **USGS40000142291**

Organization ID:	USGS-CA		
Organization Name:	USGS California Water Science Center		
Monitor Location:	001N005E14N003S	Type:	Well
Description:	COMPUTER GENERATED LAT/LONG. +/- 500FT		
HUC:	18100100	Drainage Area:	Not Reported
Drainage Area Units:	Not Reported	Contrib Drainage Area:	Not Reported
Contrib Drainage Area Unts:	Not Reported	Aquifer:	Basin and Range basin-fill aquifers
Formation Type:	Not Reported	Aquifer Type:	Not Reported
Construction Date:	19580215	Well Depth:	325
Well Depth Units:	ft	Well Hole Depth:	Not Reported
Well Hole Depth Units:	Not Reported		

Ground water levels,Number of Measurements:	2	Level reading date:	1969-05-20
Feet below surface:	292.17	Feet to sea level:	Not Reported
Note:	Not Reported		

Level reading date:	1958-02-24	Feet below surface:	181.72
Feet to sea level:	Not Reported	Note:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
92284	17	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 92284

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.500 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

Geothermal Wells Listing
Department of Conservation
Telephone: 916-445-9686
Geothermal well means a well constructed to extract or return water to the ground after it has been used for heating or cooling purposes. Geothermal wells in California (except for wells on federal leases which are administered by the Bureau of Land Management) are permitted, drilled, operated, and permanently sealed and closed (plugged and abandoned) under requirements and procedures administered by the Geothermal Section of the Department of Conservations Geologic Energy Management Division (CalGEM, formerly DOGGR).

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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APPENDIX D

Regulatory Documentation

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT

598 S. Tippecanoe Ave. ● San Bernardino, CA 92415-0153 ● (909) 386-8401 ● Fax (909) 386-8460

Office of the Fire Marshal
Hazardous Materials Section
sbcfire.org

Daniel R. Munsey
Fire Chief/Fire Warden

Monica S. Ronchetti
Fire Marshal

October 9, 2024

24100803 Yucca Valley RAL Ninyo

NINYO & MOORE
5710 RUFFIN ROAD
SAN DIEGO, CA 92123

ATTENTION: GABRIEL HARO

SUBJECT: CERTIFIED RECORD SEARCH FINDINGS
APN #S: 0597-111-67-0000 AND 0597-111-61-0000
(4815 AND 4831 NEWTON LANE/ROAD, YUCCA VALLEY, CALIFORNIA)

This is to confirm that the San Bernardino County Hazardous Materials Section has identified records that may pertain to the subject site, as described in your request for records search.

ACTIVE PERMIT FACILITIES: (Regulatory files for facilities with annual operating permits to maintain underground storage tanks, handle hazardous materials, and/or generate hazardous waste. Files include permits, inspections, reports, test results, correspondence, and related materials. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities still in operation).

Full-Circle, Inc. 4831 Newton Rd Yucca Valley	FA0009441 ~ CERS ID: 10049953 Small Quantity Generator Permit Hazardous Materials 4-10 Chemicals Handler Permit (Last CERS Submission: 8/22/2024)

INACTIVE PERMIT AND/OR NON-PERMIT FACILITIES: (Inactive regulatory files for formerly permitted facilities that maintained underground storage tanks, stored hazardous materials, and/or generated hazardous waste and/or facilities with underground storage tanks removed and/or materials and waste removed. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities no longer operating underground tanks).

No record of inactive permit and/or non-permit facilities identified in this search.

PERMITS TO REMOVE/INSTALL/MODIFY UNDERGROUND STORAGE TANKS:

No record of permits to remove/install/modify underground storage tanks identified in this search.

HAZARDOUS MATERIAL INCIDENT AND/OR COMPLAINT RESPONSE ACTIVITY: (other records of spill notifications and/or complaints not listed below may also exist in facility permit files).

Full-Circle, Inc. 4831 Newton Rd Yucca Valley	CO0028764 8/10/2011 Complaint stating an unknown amount of machine coolant released from several machines.

BOARD OF DIRECTORS

Col. Paul Cook (Ret.), Vice Chairman, First District
Jesse Armendarez, Second District
Dawn Rowe, Chair, Third District
Curt Hagman, Fourth District
Joe Baca, Jr., Fifth District
Luther Snoke, Chief Executive Officer

Full-Circle, Inc. 4831 Newton Rd Yucca Valley	CO0028683 8/10/2011 Complaint stating an unknown amount of machine coolant released from several machines.

SITE REMEDIATION: (Underground Storage Tank Clean-Up under Local Oversight Program or Voluntary Hazardous Waste Clean-Up activity under Local Jurisdiction) (documents may be included in regular active or inactive permit files listed above).

No record of site remediation identified in this search.

Records searched include permit database systems for facilities with permits as hazardous waste generators, hazardous materials handlers, and/or underground storage tanks, including inactive and/or out of business records; logs of permits issued for the removal and/or installation of underground storage tanks; records and databases pertaining to illicit dumping and releases; records of non-permitted facilities; sites undergoing remediation for contaminated soil and/or groundwater; and incidents responded to by the hazardous materials emergency response team. Records searched date back to the mid-1980's.

Records consist of 1 PDF file(s). You may contact us at hazmatrecords@sbcfire.org to request and schedule a file review appointment to view any site plans, maps, and/or blueprints that may have been redacted.

Christina Rivera

Christina Rivera
Office Specialist
Office of the Fire Marshal
Hazardous Materials Section

From: Gout, Helen@Waterboards on behalf of WB-DIT-info7
To: Gabriel Haro
Subject: Re: Public Records Request
Date: Monday, October 21, 2024 12:52:14 PM
Attachments: image001.png
image008.png
image009.png
image010.png
Outlook-dcwa1osl.png

NINYO AND MOORE

Warning: Sender Helen.Gout@Waterboards.ca.gov is not yet trusted by your organization. Please be careful before replying or clicking on the URLs.

Report Phishing This is Safe

powered by Graphus®

Good morning, Gabriel,

The Colorado River Basin Regional Water Quality Control Board received your request for records pertaining to the property located in Yucca Valley, APN: 0597-111-67-0000.

Our PRA request process has not changed and requests can be sent to our PRA Email address, WB-R7-PRA@waterboards.ca.gov. The PRA Coordinator was out of the office, which delayed the response date of October 18, 2024. We apologize for the inconvenience.

staff have reviewed the databases available using APN 0597-111-67-0000; it was determined we do not have responsive records for this site.

As this property is currently an empty lot, providing a physical address or previous company name that may have occupied the lot will assist in a more complete search for records.

This completes the Colorado River Basin Water Board's research of records for this request.
If you have any questions, please contact me using the information below, referring to public records request, PRA241005.

Thank you,

CALIFORNIA WATER BOARDS Colorado River Basin - R7

Helen Gout
Office Technician
Colorado River Basin
Regional Water Quality Control Board
Public Records Act Coordinator
760-773-5850
helen.gout@waterboards.ca.gov
PRA Requests Email:
WB-R7_PRA@waterboards.ca.gov

CONFIDENTIALITY STATEMENT This email message, including attachments, is intended for the sole use of the person(s) to whom it is addressed, and may contain information that is privileged, confidential and exempt from disclosure under applicable law. If you are not the intended addressee, you are hereby notified that you may not use, copy, disclose or

distribute this email or information contained in the email. If you have received this email in error, please immediately advise the sender by reply mail, delete this message and destroy all copies of the original message. Thank you.

From: Gabriel Haro <gharo@ninyoandmoore.com>
Sent: Monday, October 21, 2024 11:04 AM
To: WB-DIT-info7 <info7@waterboards.ca.gov>
Subject: Public Records Request

> **Caution:** External Email. Use caution when clicking links or opening attachments. When in doubt, contact DIT or use the Phish Alert Button.

Hello,

I wanted to find out if public records requests are now being handled differently in your office, I submitted the attached request on October 8, 2024 and have yet to hear back. Thanks in advance for your help.

Regards,

Gabriel Haro, GIT
Senior Staff Geologist
Ninyo & Moore | Geotechnical & Environmental Sciences Consultants
5710 Ruffin Road | San Diego, CA 92123
858.576.1000 (**x11271**) | 858.752.4729 (Cell)

35+ Years of Quality Service | ninyoandmoore.com

From: San Bernardino County Public Records
To: Gabriel Haro
Subject: Your San Bernardino County public records request #24-19101 has been closed.
Date: Wednesday, October 9, 2024 7:38:22 AM

-- Attach a non-image file and/or reply ABOVE THIS LINE with a message, and it will be sent to staff on this request. --

San Bernardino County Public Records

Record request #24-19101 has been closed. The closure reason supplied was:

Hello,

Environmental Health Services does not have the type of record (s) you have requested. Please submit your request to the San Bernardino County Fire Protection District. Go to their website at https://sbcfire.org/publicrecords/ for more information.

Thank you,

Jessica Carlson
OA III

View Request 24-19101

https://sanbernardinocounty.nextrequest.com/requests/24-19101

Questions about your request? Reply to this email or sign in to contact staff at San Bernardino County.
Technical support: See our help page

Town of Yucca Valley, CA

Request 24-296 Closed

Dates

Received

October 8, 2024 via web

Staff assigned

Departments

Building and Safety

Point of contact

Sandy Heller

Request

I would like all available building permits and records pertaining to USTs/ASTs for the following property:

- APN 0597-111-67-0000 located on the southeast corner of Sun Mesa Drive and Newton Lane in Yucca Valley, CA.

Timeline | Documents

Request published

Public

October 16, 2024, 7:53am by Staff

Request closed

Public

The Town files have no records on the requested property (vacant lot). If you have not already done so, you might submit a public records request with San Bernardino County at https://sanbernardinocounty.nextrequest.com/. The County may have records that pre-date the Town's incorporation in 1991.

Regards.

October 16, 2024, 7:53am by Staff

Department assignment

Public

Building and Safety

October 8, 2024, 11:13am by the requester

Request opened Public

Request received via web

October 8, 2024, 11:13am by the requester

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT

598 S. Tippecanoe Ave. ● San Bernardino, CA 92415-0153 ● (909) 386-8401 ● Fax (909) 386-8460

Office of the Fire Marshal
Hazardous Materials Section
sbcfire.org

Daniel R. Munsey
Fire Chief/Fire Warden

Monica S. Ronchetti
Fire Marshal

October 9, 2024

24100803 Yucca Valley RAL Ninyo

NINYO & MOORE
5710 RUFFIN ROAD
SAN DIEGO, CA 92123

ATTENTION: GABRIEL HARO

SUBJECT: CERTIFIED RECORD SEARCH FINDINGS
APN #S: 0597-111-67-0000 AND 0597-111-61-0000
(4815 AND 4831 NEWTON LANE/ROAD, YUCCA VALLEY, CALIFORNIA)

This is to confirm that the San Bernardino County Hazardous Materials Section has identified records that may pertain to the subject site, as described in your request for records search.

ACTIVE PERMIT FACILITIES: (Regulatory files for facilities with annual operating permits to maintain underground storage tanks, handle hazardous materials, and/or generate hazardous waste. Files include permits, inspections, reports, test results, correspondence, and related materials. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities still in operation).

Full-Circle, Inc. 4831 Newton Rd Yucca Valley	FA0009441 ~ CERS ID: 10049953 Small Quantity Generator Permit Hazardous Materials 4-10 Chemicals Handler Permit (Last CERS Submission: 8/22/2024)

INACTIVE PERMIT AND/OR NON-PERMIT FACILITIES: (Inactive regulatory files for formerly permitted facilities that maintained underground storage tanks, stored hazardous materials, and/or generated hazardous waste and/or facilities with underground storage tanks removed and/or materials and waste removed. Files will also include any underground tank removal/construction activity records and site remediation/contamination records for facilities no longer operating underground tanks).

No record of inactive permit and/or non-permit facilities identified in this search.

PERMITS TO REMOVE/INSTALL/MODIFY UNDERGROUND STORAGE TANKS:

No record of permits to remove/install/modify underground storage tanks identified in this search.

HAZARDOUS MATERIAL INCIDENT AND/OR COMPLAINT RESPONSE ACTIVITY: (other records of spill notifications and/or complaints not listed below may also exist in facility permit files).

Full-Circle, Inc. 4831 Newton Rd Yucca Valley	CO0028764 8/10/2011 Complaint stating an unknown amount of machine coolant released from several machines.

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Luther Snoke, Chief Executive Officer

Full-Circle, Inc. 4831 Newton Rd Yucca Valley	CO0028683 8/10/2011 Complaint stating an unknown amount of machine coolant released from several machines.

SITE REMEDIATION: (Underground Storage Tank Clean-Up under Local Oversight Program or Voluntary Hazardous Waste Clean-Up activity under Local Jurisdiction) (documents may be included in regular active or inactive permit files listed above).

No record of site remediation identified in this search.

Records searched include permit database systems for facilities with permits as hazardous waste generators, hazardous materials handlers, and/or underground storage tanks, including inactive and/or out of business records; logs of permits issued for the removal and/or installation of underground storage tanks; records and databases pertaining to illicit dumping and releases; records of non-permitted facilities; sites undergoing remediation for contaminated soil and/or groundwater; and incidents responded to by the hazardous materials emergency response team. Records searched date back to the mid-1980's.

Records consist of 1 PDF file(s). You may contact us at hazmatrecords@sbcfire.org to request and schedule a file review appointment to view any site plans, maps, and/or blueprints that may have been redacted.

Christina Rivera

Christina Rivera
Office Specialist
Office of the Fire Marshal
Hazardous Materials Section

FULL-CIRCLE, INC. (CERSID: 10049953)

Facility Information **Accepted Sep 12, 2024**

Submitted on 8/22/2024 5:05:04 PM by *Russell Smith* of SMITH PRECISION PRODUCTS COMPANY (NEWBURY PARK, CA)
Submittal was ***Accepted*** on 9/12/2024 8:37:46 AM by Antoinette Saunchez
Comments by regulator: Verified by site inspection. If you have any questions, please contact Antoinette Saunchez at asaunchez@sbcfire.org or (909) 386-8401.

- Business Activities
- Business Owner/Operator Identification

Hazardous Materials Inventory **Accepted Sep 12, 2024**

Submitted on 8/22/2024 5:05:04 PM by *Russell Smith* of SMITH PRECISION PRODUCTS COMPANY (NEWBURY PARK, CA)
Submittal was ***Accepted*** on 9/12/2024 8:37:54 AM by Antoinette Saunchez
Comments by regulator: Verified by site inspection. If you have any questions, please contact Antoinette Saunchez at asaunchez@sbcfire.org or (909) 386-8401.

- Hazardous Material Inventory (14)
- Site Map (Official Use Only)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 517KB)
  - *Annotated Site Map (Official Use Only)* (Adobe PDF, 42KB)

Site Identification

FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284
County
San Bernardino

CERS ID
10049953
EPA ID Number
CAL000212349

Submittal Status

Submitted on 8/22/2024 by *Russell Smith* of SMITH PRECISION PRODUCTS COMPANY (NEWBURY PARK, CA)
Submittal was ***Accepted***; Processed on 9/12/2024 by *Antoinette Saunchez* for San Bernardino County Fire Department
Comments by regulator: Verified by site inspection. If you have any questions, please contact Antoinette Saunchez at asaunchez@sbcfire.org or (909) 386-8401.

Hazardous Materials

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	**Yes**

Underground Storage Tank(s) (UST)

Does your facility own or operate underground storage tanks?	**No**

Hazardous Waste

Is your facility a Hazardous Waste Generator?	**Yes**
Does your facility treat hazardous waste on-site?	**No**
Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	**No**
Does your facility consolidate hazardous waste generated at a remote site?	**No**
Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?	**No**
Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month greater than 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	**No**
Is your facility a Household Hazardous Waste (HHW) Collection site?	**No**

Excluded and/or Exempted Materials

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?	**No**

Aboveground Petroleum Storage

Does your facility own or operate aboveground petroleum storage tanks or containers AND: * have a total aboveground petroleum storage capacity of 1,320 gallons or more, OR * have one or more petroleum tanks in an underground area?	**No**

Regulated Substances

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?	**No**

Additional Information

No additional comments provided.

Facility/Site

FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

CERS ID
10049953

Submittal Status

Submitted on 8/22/2024 by *Russell Smith* of SMITH PRECISION PRODUCTS COMPANY (NEWBURY PARK, CA)
Submittal was ***Accepted***; Processed on 9/12/2024 by *Antoinette Saunchez* for San Bernardino County Fire Department
Comments by regulator: Verified by site inspection. If you have any questions, please contact Antoinette Saunchez at asaunchez@sbcfire.org or (909) 386-8401.

Identification

Nathan Heinrich

Operator Phone	Business Phone	Business Fax	Beginning Date	Ending Date
(760) 369-1234	(760) 369-1234	(805) 499-2867		

Dun & Bradstreet	SIC Code	Primary NAICS

Facility/Site Mailing Address

PO BOX 276
NEWBURY PARK, CA 91319

Primary Emergency Contact

Russell Smith
Title
Quality Manager

Business Phone	24-Hour Phone	Pager Number
(805) 498-2589	(800) 470-1000	

Owner

SMITH, WALTER
(805) 498-2589
PO BOX 276
NEWBURY PARK, CA 91319

Secondary Emergency Contact

CJ Smith
Title
Vice President

Business Phone	24-Hour Phone	Pager Number
(805) 498-2589	(800) 470-1000	

Billing Contact

Beth Leavitt
(805) 498-2589 beth@fullcircleswivels.com
PO BOX 276
NEWBURY PARK, CA 91319

Environmental Contact

RUSSELL SMITH
(805) 498-6616 RUSSELL@SMITHPUMPS.COM
PO BOX 276
NEWBURY PARK, CA 91319

Name of Signer	Signer Title	Document Preparer

Additional Information

Locally-collected Fields

Some or all of the following fields may be required by your local regulator(s).

Property Owner

Phone

Mailing Address

,

Assessor Parcel Number (APN)

Number of Employees
8

Facility ID
FA0009441

Printed on 10/9/2024 8:26 AM

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SMITH PRECISION PRODUCTS COMPANY**
Facility Name **FULL-CIRCLE, INC.**
4831 NEWTON RD, YUCCA VALLEY 92284

Chemical Location **East side of building (outside) and North side of building (inside)**

CERS ID **10049953**
Facility ID **FA0009441**
Status **Submitted** on 8/22/2024 5:05 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	Industrial Cleaner and Degreaser CAS No	**Gallons** State: Liquid Type: Mixture	**110** Storage Container: Steel Drum Days on Site: 365	**55**	55 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Serious Eye Damage Eye Irritation	water ethoxylated alchohol sodium citrate tetrasodium N,N-bis (carboxymethyl)-L-glutamate sodium carbonate	87% 5% 5% 1% 1%		7732-18-5 68439-46-3 68-04-2 51981-21-6 497-19-8
DOT: 3 - Flammable and Combustible Liquids	**Oil base lapping vehicle** CAS No	**Gallons** State: Liquid Type: Mixture	**110** Storage Container: Steel Drum Days on Site: 365	**55**	55 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Aspiration Hazard	Distillate (petroleum), hydrotreated light Distillate (petroleum), solvent-dewaxed heavy paraffinic	80% 20%		64742-47-8 64742-65-0
	Base Oil and additives (DTE 24) CAS No	**Gallons** State: Liquid Type: Mixture	**110** Storage Container: Steel Drum Days on Site: 365	**55**	55 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation	severely hydrotreated heavy paraffinic distillate benzenamine, n-phenyl-, reaction products with 2,4,4-trimethylpentene	90% 0%		64742-54-7 68411-46-1
	Odorless Mineral Spirits CAS No 64741-65-7	**Gallons** State: Liquid Type: Pure	**110** Storage Container: Steel Drum Days on Site: 365	**55**	55 Pressue: Ambient Temperature: Ambient	Waste Code	- Physical Flammable - Health Carcinogenicity - Health Acute Toxicity - Health Aspiration Hazard - Health Germ Cell Mutagenicity	Odorless Mineral Spirits	100%		64741-65-7
	Base Oil and additives (Vactra #2) CAS No	**Gallons** State: Liquid Type: Mixture	**110** Storage Container: Steel Drum Days on Site: 365	**55**	55 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion Irritation	solvent dewaxed heavy paraffinic distillate phosphoric acid esters, amine salt	90%		64742-65-0 Proprietary
	BLASER B-COOL MC 600 (COOLANT CONCENTRATE) CAS No	**Gallons** State: Liquid Type: Mixture	**110** Storage Container: Steel Drum Days on Site: 365	**55**	55 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Carboxylic acids, neutralized with alkanolamines* Mineral oil, severely hydrotreated, naphthenic Triethanolamine Phosphoric acid, isoalkyl ester* 2-octyl-2H-isothiazol-3-one	15% 30% 5% 5% 0%		 64742-52-5 102-71-6 26530-20-1

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SMITH PRECISION PRODUCTS COMPANY**
Facility Name **FULL-CIRCLE, INC.**
4831 NEWTON RD, YUCCA VALLEY 92284

Chemical Location **East side of building (outside) and North side of building (inside)**

CERS ID **10049953**
Facility ID **FA0009441**
Status **Submitted** on 8/22/2024 5:05 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	TRIM SOL (COOLANT CONCENTRATE)	**Gallons**	**110**	**55**	55		- Health Acute Toxicity	SEVERELY HYDROTREATED PETROLEUM OIL	40%		64742-52-5
	CAS No	State: Liquid	Storage Container: Steel Drum		Pressue: Ambient	Waste Code	- Health Serious Eye Damage Eye Irritation	TRADE SECRET	20%		Proprietary
		Type: Mixture			Temperature: Ambient			TRADE SECRET	3%		Proprietary

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SMITH PRECISION PRODUCTS COMPANY**
Facility Name **FULL-CIRCLE, INC.**
4831 NEWTON RD, YUCCA VALLEY 92284

Chemical Location
INSIDE BUILDING IN VARIOUS CNC MACHINES

CERS ID **10049953**
Facility ID **FA0009441**
Status **Submitted** on 8/22/2024 5:05 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
	BLASER B-COOL MC 600 (MIXTURE, CONCENTRATE AND WATER) CAS No	**Gallons** State: Liquid Type: Mixture	**265** Storage Container: Other Days on Site: 365	**110**	265 Pressue: Ambient Temperature: Ambient	Waste Code	- Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	Water BLASER B-COOL MC 600 (Concentrate)	92% 8%		
	TRIM SOL (MIXTURE, CONCENTRATE AND WATER) CAS No	**Gallons** State: Liquid Type: Mixture	**215** Storage Container: Other	**65**	215 Pressue: Temperature:	Waste Code	- Health Acute Toxicity - Health Serious Eye Damage Eye Irritation	Water TRIM SOL (CONCENTRATE)	92% 8%		

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SMITH PRECISION PRODUCTS COMPANY**
Facility Name **FULL-CIRCLE, INC.**
4831 NEWTON RD, YUCCA VALLEY 92284

Chemical Location **North East corner of property**

CERS ID **10049953**
Facility ID **FA0009441**
Status **Submitted** on 8/22/2024 5:05 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Waste Motor Oil** CAS No	**Gallons** State: Liquid Type: Waste	**110** Storage Container: Steel Drum Days on Site: 365	**55**	55 Pressue: Ambient Temperature: Ambient	165 Waste Code: 221	- Physical Flammable - Health Acute Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation	VARIOUS LUBRICATING BASE OILS ADDITIVE PACKAGE, INCLUDING ZINC ALKYLDITHIOPHOSPHATE	85% 15% 2%		6474X-XX-X MIXTURE 68649-42-3
	NON-RCRA Hazardous Waste, liquids, (Coolant) CAS No	**Gallons** State: Liquid Type: Waste	**480** Storage Container: Aboveground Tank Days on Site: 365	**480**	240 Pressue: Ambient Temperature: Ambient	480 Waste Code: 134	- Health Serious Eye Damage Eye Irritation				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SMITH PRECISION PRODUCTS COMPANY**
Facility Name **FULL-CIRCLE, INC.**
4831 NEWTON RD, YUCCA VALLEY 92284

Chemical Location
North side of building (inside)

CERS ID **10049953**
Facility ID **FA0009441**
Status **Submitted** on 8/22/2024 5:05 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.2 - Nonflammable Gases	**Carbon Dioxide** CAS No 124-38-9	**Cu. Feet** State Gas Type Pure	**500** Storage Container Cylinder Days on Site: 365	**200**	400 Pressue > Ambient Temperature Ambient	Waste Code	- Physical Gas Under Pressure - Health Simple Asphyxiant	carbon dioxide	100%		124-38-9

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SMITH PRECISION PRODUCTS COMPANY**
Facility Name **FULL-CIRCLE, INC.**
4831 NEWTON RD, YUCCA VALLEY 92284

Chemical Location
Parts Washer, Inside building, S.E Bay Door

CERS ID **10049953**
Facility ID **FA0009441**
Status **Submitted** on 8/22/2024 5:05 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 3 - Flammable and Combustible Liquids Combustible Liquid, Class III-B	**Hydrotreated light distillates (petroleum)** CAS No 64742-47-8	**Gallons** State Liquid Type Pure	**16** Storage Container Other Days on Site: 365	**16**	16 Pressue Temperature	 Waste Code 213	- Physical Flammable - Health Aspiration Hazard				

Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. **SMITH PRECISION PRODUCTS COMPANY**
Facility Name **FULL-CIRCLE, INC.**
4831 NEWTON RD, YUCCA VALLEY 92284

Chemical Location **south side of building (outside)**

CERS ID **10049953**
Facility ID **FA0009441**
Status **Submitted** on 8/22/2024 5:05 PM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities: Max. Daily	Quantities: Largest Cont.	Quantities: Avg. Daily	Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only): Component Name	% Wt	EHS	CAS No.
DOT: 2.1 - Flammable Gases Flammable Gas	**Liquefied Petroleum Gas (lpg)** CAS No 74-98-6	**Gallons** State Gas Type Mixture	**500** Storage Container Aboveground Tank Days on Site: 365	**500**	500 Pressue Temperature	Waste Code	- Physical Flammable - Physical Gas Under Pressure - Physical Explosive - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Simple Asphyxiant	Propane Ethane Isobutane Propylene Ethyl Meraptain	90% 6% 3% 5% 0%		74-98-6 74-84-0 75-28-5 115-07-1 75-08-1

CUPA
San Bernardino County Fire Protection District • Hazardous Materials Section
598 S. Tippecanoe Ave. San Bernardino, CA 92415-0153 • (909) 386-8401 FAX (909) 386-8460 • www.sbcfire.org

CUPA COMPLIANCE INSPECTION REPORT

NAME: **FULL-CIRCLE, INC.** FACILITY ID: **FA0009441**

ADDRESS: **4831 NEWTON RD** CERS ID: **10049953**

CITY: **YUCCA VALLEY** STATE: **CA** ZIP CODE: **92284** INSPECTION DATE: **8/13/2024**

Consent granted by:

[X] **Photograph** [X] **Inspect** **Name:** MANAGER **Title:** NATHAN HEINRICH

An inspection was conducted on 08/13/2024 to determine compliance with applicable hazardous materials and hazardous waste laws and regulations. Nathan Heinrich, Manager, was the escort during this inspection.

Full-Circle, Inc. manufactures hose-end fittings attached to the filler valve on propane delivery trucks that transfers liquid propane gas. This facility generates hazardous waste from equipment maintenance. Examples of hazardous waste being generated by this facility include used oil and waste coolant. No hazardous waste was observed on site at the time of inspection.

Inventory:
The hazardous materials inventory observed during the inspection was consistent with the inventory submitted in the California Environmental Reporting System (CERS) on 02/22/2024 except for the following:
- (4) 55-gallon drums of coolant

Document Review:
- CUPA Program permits are current; expiration date of 01/31/2025.
- EPA ID # CAL000212349 was active at the time of the inspection.
- The Hazardous Materials Business Plan was last updated via CERS on 02/22/2024. CERS ID # 10049953.
- HCI Environmental & Engineering Services is the hazardous waste hauler. Hazardous waste manifests were available for review at the time of inspection.
- This facility generates between 27 and 270 gallons of hazardous waste per month.
- Scrap Metal is recycled by SA Recycling.
- Uniforms and rags are serviced by Prudential Overall Supply.
- Hazardous materials employee training records were available for review at the time of inspection.

Complete and submit the Certificate of Compliance (CofC) provided along with all requested documentation, to this Hazardous Materials Section within 30 days of inspection.

Please contact Antoinette Saunchez at (909) 386–8401 or by e-mail at asaunchez@sbcfire.org with any questions regarding this report.

If you have any questions regarding CERS, please call the CERS Help Desk at (909) 386–8432.

Refer to Title 19 and Title 22 of the California Code of Regulations (CCR), Chapters 6.5, 6.67 and 6.95 of the California Health Safety Code (CHSC), and Division 3 of Title 2 of the San Bernardino County Code (SBCC). The following lines marked in the V column are violations that must be corrected.

VIOLATION CODE	DESCRIPTION	SECTION		V
42	**HMRRP (HAZARDOUS MATERIALS HANDLER)**			
H201	Hazardous Material Handler Permit Current	SBCC	23.0602(a)	
H202	Hazardous Materials Business Plan Established and Implemented	CHSC	25507	
H203	Hazardous Materials Business Plan Submittal	CHSC	25505, 25508(a)(1)	
H204	Immediately Report Any Release or Threatened Release of a Hazardous Material		MULTIPLE	
H205	Facility Access for Inspection Granted	CHSC	25511	
H206	Business Plan Annual Review/Certification	CHSC	25508.2	

H209	**Business Plan Update Within 30 days of Change**	CHSC	25508.1(a)-(f)	X
Violation:	Failure to electronically update business plan within 30 days of any one of the following events: 1) A 100 percent or more increase in the quantity of a previously disclosed material. 2) Any handling of a previously undisclosed hazardous materials at or above reportable quantities. 3) A change of business address, business ownership, or business name. 4) A substantial change in the handler's operations that requires modification to any portion of the business plan.			
MINOR	OBSERVATION: At the time of the inspection, observed (4) 55-gallon drums of coolant which was a 100% or more increase in quantity than reported on CERS. CORRECTIVE ACTION: Update the required business plan information via CERS. CERS ID# 10049953.			
H210	Business Activities Page and/or Business Owner/Operator Identification Page		MULTIPLE	
H211	Hazardous Materials Inventory	CHSC	Multiple	
H212	Site Map	CHSC	Multiple	
H213	Emergency Response Plan and Procedures		MULTIPLE	
H214	Training Program Not Included or Not Adequate		MULTIPLE	
H215	Training Not Provided and/or Documented		MULTIPLE	
H216	Hazardous Materials Business Plan Readily Available	CHSC	25505(c)	
H220	Property Owner Notification	CHSC	25505.1	
H221	Property Owner Business Plan	CHSC	25505.1	
H222	Agricultural Handler Emergency Response Plan		MULTIPLE	
H223	Agricultural Handler Training Program		MULTIPLE	
H224	Remote Unstaffed Facility	CHSC	25505,25506,25507.2,255	
H225	Agricultural Handlers Warning Signs-Signs Posted		MULTIPLE	
H230	Hazardous Materials Consumer Product Handling	CHSC	Multiple	
H231	Hazardous Materials Consumer Product Retail Establishment	CHSC	Multiple	
H232	Hazardous Materials Supplier Records	CHSC	25507.5	
H233	Hazardous Materials Transfer Disclosure	CHSC	25508.3	

VIOLATION CODE	DESCRIPTION	SECTION		V
44	**HAZARDOUS WASTE GENERATOR**			
W101	HWG: Hazardous Waste Generator CUPA Permit	SBCC	23.0602	
W102	Facility Access for Inspection	CHSC	25185	
W103	HWG: Hazardous Waste Determination	CCR	66262.11	
W104	HWG: Identification Number	CCR	66262.12	
W108	HWG: Recyclable Materials	CHSC	25143.2, 25143.9	
W110	HWG: Hazardous Waste Labeling Standards	CCR	66262.34(f)	
W111	HWG: Hazardous Waste Tank Label	CCR	66262.34(f)	
W117	HWG: Empty Containers >5 Gallons	CCR	66261.7	
W121	HWG: Quarantine Order	CHSC	25187.6	
W122	HWG: Reusable Soiled Textile Materials	CHSC	25144.6(b)	
W124	HWG: Remote Consolidation Notification	CHSC	25110.10(d)	
W125	HWG: Preparation of the Hazardous Waste Manifest	CCR	66262.20	
W126	HWG: Hazardous Waste Manifest Completeness	CCR	66262.23(a)	
W127	HWG: Hazardous Waste Manifest Not Sent to DTSC		MULTIPLE	
W128	HWG: Hazardous Waste Disposal Documentation	CCR	66262.40(a)	
W130	HWG: Maintaining Records of Test Result for Three Years	CCR	66262.40(c)	
W134	HWG: Used Oil Certification Form	CHSC	Multiple	
W136	HWG: Contamination of Used Oil	CHSC	25250.7(a)	
W137	HWG: Consolidated Manifest	CHSC	25160.2	
W138	HWG: Used Oil Filter and Fuel Filter Handling Requirements	CCR	Multiple	
W139	HWG: Lead Battery Disposal Documentation	CCR	66266.81(a)(4)(B)	
W140	HWG: Management of Spent Vehicle Lead-Acid Batteries	CCR	66266.81(a)(1)	
W141	HWG: Management of 11 or More Spent Vehicle Lead-Acid Batteries	CCR	66266.81(a)(3)	
W142	HWG: Damaged Lead Battery Handling	CCR	66266.81(b)	
W145	HWG: Improper Disposal of Hazardous Waste	CHSC	25189.5(a)	
W148	HWG: Hazardous Waste Not Transported by Registered Hauler	CHSC	25163(a)	
W152	HWG: Excluded Recyclable Materials Report	CHSC	25143.10	
W155	HWG: Satellite Accumulation	CCR	66262.34(e)	
W156	HWG: Laboratory Accumulation Areas	CHSC	25200.3.1(b)	
W157	HWG: Laboratory Waste Treatment	CHSC	25200.3.1 (c)	
W158	HWG: Program Data Electronic Report		MULTIPLE	

W159	**HWG: Facility Information Reporting**	SBCC	23.0602,23.0712	X
Violation:	Failure to provide facility information to CUPA including, but not limited to, the following: 1. Names, addresses and phone numbers of the business and owner. 2. Name and twenty-four (24) hour phone number of the emergency contact person. 3. Site address where hazardous waste is generated or produced, if different from the facility address. 4. List of each type of hazardous waste generated. 5. The permittee shall prepare a Contingency Plan as defined in Section 66260.10 and Section 66265.50 et seq. of Title 22 of the California Code of Regulations.			
MINOR	OBSERVATION: (1) ~20-gallon parts washer was observed on site at the time of inspection, but not reported in CERS. CORRECTIVE ACTION: Update the required business plan information via CERS. CERS ID# 10049953.			
W190	HWG: Land Disposal Restriction	CCR	Multiple	
W191	HWG: Unauthroized Treatment	CHSC	25201(a)	
W206	SQG: Facility Maintained to Prevent Fire/Explosion/Release	CCR	66262.34(d)(2)	
W207	SQG: Emergency Plan	CCR	66262.34(d)(2)	
W213	SQG: Time Exceeded for Hazardous Waste Conditional Accumulation (180 Days)		MULTIPLE	
W214	SQG: Container in Poor Condition or Damaged	CCR	66262.34(d)(2)	
W216	SQG: Open Hazardous Waste Containers	CCR	66262.34(d)(2)	
W218	Generator of < 100 kg/mth: Accumulation Time Exceeded (180/270, or 90 Days for Acutely/Extremely)		MULTIPLE	
W227	SQG: Hazardous Waste Manifest Exception Reporting		MULTIPLE	
W231	SQG: Employee Training	CCR	66262.34(d)(2)	
W238	SQG: Weekly Hazardous Waste Storage Area Inspection	CCR	66262.34(d)(2)	
W245	SQG: Hazardous Waste Container Incompatible with Material Stored	CCR	66262.34(d)(2)	
W249	SQG: Aisle Space	CCR	66262.34(d)(2)	
W268	SQG: Incompatible Waste Storage	CCR	66262.34(d)(2)	
W269	SQG: Hazardous Waste Tank Spill Control/Overfill	CCR	66262.34(d)(2)	
W270	SQG: Daily Tank, Monitoring, and Discharge Inspection	CCR	66262.34(d)(2)	
W271	SQG: Weekly Hazardous Waste Tank Construction and System Fixture Inspection	CCR	66262.34(d)(2)	
W272	SQG: Hazardous Waste Facility Closure	CCR	66262.34(d)(2)	
W273	SQG: Tank 2ft Freeboard	CCR	66262.34(d)(2)	
W280	SQG: Emergency Coordinator	CCR	66262.34(d)(2)	
W281	SQG: Facility Emergency Equipment	CCR	66262.34(d)(2)	
W282	SQG: Emergency Equipment Maintenance	CCR	66262.34(d)(2)	
W306	LQG: Facility Maintained To Prevent Fire/Explosion/Release	CCR	66262.34(a)(4), 66265.31	
W307	LQG: Contingency Plan	CCR	66262.34(a)(4), 66265.51	
W308	LQG: Contingency Plan Copies	CCR	66262.34(a)(4), 66265.53	
W309	LQG: Contingency Plan Emergency Action Plan	CCR	66262.34(a)(4), 66265.52	
W313	LQG: Hazardous Waste Accumulation Time Exceeded		MULTIPLE	
W314	LQG: Container in Poor Condition or Damaged	CCR	66262.34(a)(1), 66265.17	
W316	LQG: Open Hazardous Waste Container	CCR	66262.34(a)(1), 66265.17	
W318	LQG: Weekly Hazardous Waste Storage Areas Inspection	CCR	66262.34(a)(1), 66265.17	
W320	LQG: Hazardous Waste Tank Inspections	CCR	66262.34(a)(1), 66265.19	
W321	LQG: Hazardous Waste Tank Cathodic Inspection	CCR	66262.34(a)(1), 66265.19	
W324	LQG: Hazardous Waste Tank Equipment Replacement	CCR	66265.192(m)	
W325	LQG: Hazardous Waste Tank Release	CCR	66265.196	
W326	LQG: Tank Closure Requirements and Documentation	CCR	Multiple	
W331	LQG: Employee Hazardous Waste Training	CCR	66262.34(a)(4), 66265.16	
W332	LQG: Source Reduction Evaluation Review and Plan	CCR	67100.7, 67100.8	
W333	LQG: Summary Progress Report	CCR	67100.9	
W334	LQG: Source Reduction Implementation	CCR	67100.5	
W345	LQG: Hazardous Waste Container Incompatible with Material Stored	CCR	66262.34(a)(1), 66265.17	
W349	LQG: Aisle Space	CCR	66262.34(a)(4), 66265.35	
W350	LQG: New Hazardous Waste Tank System P.E. Certification	CCR	Multiple	
W351	LQG: Reassessment for Hazardous Waste Tank System P.E. Certification	CCR	66265.192(h)	
W352	LQG: New Tank Assessment Standards	CCR	66265.192(k)	
W353	LQG: Hazardous Waste Tank Standards	CCR	66262.34(a)(1), 66265.19	
W354	LQG: Secondary Containment	CCR	66262.34(a)(1), 66265.19	
W368	LQG: Incompatible Waste Storage	CCR	Multiple	
W369	LQG: Air Emissions for Waste in Containers	CCR	Multiple	
W371	LQG: Air Emissions for Wastes in Tanks	CCR	66262.34(a)(1), 66265.20	
W378	LQG: Hazardous Waste Manifest Exception Reporting		MULTIPLE	
W380	LQG: Emergency Coordinator	CCR	66262.34(a)(4), 66265.55	

W381	LQG: Facility Emergency Equipment	CCR	66262.34(a)(4), 66265.32	
W382	LQG: Emergency Equipment Maintenance	CCR	66262.34(a)(4), 66265.33	
W402	Administration/Documentation - General		MULTIPLE	
W501	Certified Appliance Recycler: Certification	CHSC	25211.4	
W502	Certified Appliance Recycler: Certification	CHSC	25211.2, 25211.3	
W503	Certified Appliance Recycler: Materials that Require Special Handling (MRSH) properly managed	CHSC	25212	
W504	Certified Appliance Recycler: Proper Removal of Materials that Require Special Handling (MRSH)	CHSC	25211.3, 25212(a)	
W901	Universal Waste Handler: Permit	SBCC	23.0602	
W902	Universal Waste Handler: Labeling Requirements	CCR	66273.34	
W903	Universal Waste Handler: Accumulation Time	CCR	66273.35	
W904	Universal Waste Handler: Employee Training	CCR	66273.36	
W907	Universal Waste: Accumulation of Aerosol Cans	CHSC	25201.16(f)	
W908	Universal Waste: Handling of Aerosol Cans	CHSC	25201.16(e)	
W911	Universal Waste Handler: Department Notification	CCR	66273.32(c),(e)	
W912	Universal Waste Handler: Annual Report	CCR	66273.32(d),(f)	
W913	Universal Waste Handler: Release	CCR	66273.33.5; 66273.33.6	
W914	Universal Waste Handler: USEPA Notification	CCR	66273.32(a)	
W915	Universal Waste Handler: Exporting Notification	CCR	66273.40(a)(2)- (4)	
W920	Universal Waste Handler: Illegal Disposal	CCR	66273.31(a)	
W923	Large Quantity Universal Waste Handler DTSC ID Number	CCR	66273.32(b)	

INSPECTED BY:

ANTOINETTE SAUNCHEZ

INSPECTOR NAME

RECEIVED BY:

NATHAN HEINRICH

NAME

INSPECTION DATE: 08/13/2024

Signature Date Time: 8/13/24 12:33:07PM

LTR:8/13/2024 12:31:49PM

MANAGER

TITLE

REPORT DATE: 8/13/24 12:34 pm

[X] **This report shall serve as a notice to comply for minor violations and a notice of violation for all other violations. THE VIOLATIONS NOTED IN THIS REPORT MUST BE CORRECTED WITHIN 30 DAYS UNLESS OTHERWISE SPECIFIED. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.**

CUPA
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CERTIFICATE OF COMPLIANCE

Return certification to inspector ANTOINETTE SAUNCHEZ within 30 days of inspection unless otherwise specified.

RESPONDENT: LAUREN DOUCETTE

VIOLATION(S) CITED ON: 8/13/2024

FACILITY NAME: **FULL-CIRCLE, INC.** FACILITY ID: **FA0009441**

SITE ADDRESS: **4831 NEWTON RD** CERS ID: **10049953**

CITY: **YUCCA VALLEY** STATE: **CA** ZIP CODE: **92284**

Summary of Violations:

IMPORTANT- Attach all requested documentation when returning this certification.

H209 CORRECTIVE ACTION: Update the required business plan information via CERS. CERS ID# 10049953.

W159 CORRECTIVE ACTION: Update the required business plan information via CERS. CERS ID# 10049953.

I certify under penalty of law that:

- Respondent has corrected violations specified in the above-entitled action.
- I have personally examined any documentation attached to this certification to establish that the violations have been corrected.
- Based on my examination of the attached documentation and inquiry of the individuals, who prepared or obtained them, I believe the information to be true, accurate and complete.
- I am authorized to file this certification on behalf of the Respondent.
- I am aware there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

SIGNATURE DATE

PRINT NAME TITLE

PHOTO NARRATIVE

Facility Name: Full-Circle, Inc. **Facility ID#:** FA0009441
Address: 4831 Newton Rd. Yucca Valley, CA 92284

Photo 1

1) Description: Front of the facility.

Photo 2

2) Description: (1) ~20-gallon parts washer that was not disclosed on the hazardous material inventory submitted via CERS on 03/21/2024. CERS ID# 10049953.

Date Taken: 08/13/2024
Taken By: Antoinette Saunchez **Signature:** A. Saunchez

PHOTO NARRATIVE

Facility Name: Full-Circle, Inc. **Facility ID#:** FA0009441
Address: 4831 Newton Rd. Yucca Valley, CA 92284

Photo 3

3) Description: (1) 55-gallon drum of coolant. Facility has more than a 100% increase in quantity of new coolant than reported on the hazardous material inventory submitted via CERS on 03/21/2024. CERS ID# 10049953.

Photo 4

NO PHOTO

4) Description: No photo.

Date Taken: 08/13/2024
Taken By: Antoinette Saunchez **Signature:** A Saunchez

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CERTIFICATE OF COMPLIANCE

Return certification to inspector ANTOINETTE SAUNCHEZ within 30 days of inspection unless otherwise specified.

RESPONDENT: LAUREN DOUCETTE

VIOLATION(S) CITED ON: 8/13/2024

FACILITY NAME: **FULL-CIRCLE, INC.** FACILITY ID: **FA0009441**

SITE ADDRESS: **4831 NEWTON RD** CERS ID: **10049953**

CITY: **YUCCA VALLEY** STATE: **CA** ZIP CODE: **92284**

Summary of Violations:

IMPORTANT- Attach all requested documentation when returning this certification.

H209 CORRECTIVE ACTION: Update the required business plan information via CERS. CERS ID# 10049953.

W159 CORRECTIVE ACTION: Update the required business plan information via CERS. CERS ID# 10049953.

I certify under penalty of law that:

- Respondent has corrected violations specified in the above-entitled action.
- I have personally examined any documentation attached to this certification to establish that the violations have been corrected.
- Based on my examination of the attached documentation and inquiry of the individuals, who prepared or obtained them, I believe the information to be true, accurate and complete.
- I am authorized to file this certification on behalf of the Respondent.
- I am aware there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

R. Smith
SIGNATURE

8/13/2024
DATE

Russell Smith
PRINT NAME

Quality Manager
TITLE

CUPA

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CUPA COMPLIANCE INSPECTION REPORT

NAME: **FULL-CIRCLE, INC.** FACILITY ID: **FA0009441**

ADDRESS: **4831 NEWTON RD** CERS ID: **10049953**

CITY: **YUCCA VALLEY** STATE: **CA** ZIP CODE: **92284** INSPECTION DATE: **7/7/2021**

Consent granted by:

☒ **Photograph** ☒ **Inspect** **Name:** Nathan Hienrich **Title:** Lead

An inspection was conducted on 7/7/2021 to determine compliance with applicable hazardous materials and hazardous waste laws and regulations. Nathan Hienrich, Lead, was the escort during the inspection.

Full Circle Inc created machine fittings for propane trucks. Coolant, odorless mineral spirits, acetylene, and oxygen are used in the fitting process. Used oil is generated from the machines creating the fittings.

Inventory:

-Hazardous materials observed on site were consistent with the inventory submitted via the California Environmental Reporting System (CERS) from 3/8/2019.

Document Review

- CUPA permits were current; expiration date of 1/31/2022.
- EPA ID # CAL000212349 was active during the time of the inspection.
- The Hazardous Materials Business Plan was last updated via CERS on 3/30/2020 for the facility information and 3/8/2019 for the inventory and emergency response information.
- HCI Environmental & Engineering Services hauls the hazardous waste and manifests were available for review.
- Facility generates between 27 and 270 gallons of hazardous waste per month.
- Hazardous materials employee training records were available for review at the time of the inspection.

Complete and submit the Certificate of Compliance (CofC) provided along with all requested documentation, to the attention of Ana Villanueva within 30 days of inspection.

Please contact Ana Villanueva at (909)386-8401 or by email at avillanueva@sbcfire.org with any questions regarding this report.

If you have any questions regarding CERS, please call the CERS Help Desk at (909) 386-8432.

Refer to Title 19 and Title 22 of the California Code of Regulations (CCR), Chapters 6.5, 6.67 and 6.95 of the California Health Safety Code (CHSC), and Division 3 of Title 2 of the San Bernardino County Code (SBCC). The following lines marked in the V column are violations that must be corrected.

VIOLATION CODE	DESCRIPTION	SECTION		V
42	**HMRRP (HAZARDOUS MATERIALS HANDLER)**			
H201	Hazardous Material Handler Permit Current	SBCC	23.0602(a)	
H202	Hazardous Materials Business Plan Established and Implemented	CHSC	25507	
H203	Hazardous Materials Business Plan Submittal	CHSC	25505, 25508(a)(1)	
H204	Immediately Report Any Release or Threatened Release of a Hazardous Material		Multiple	
H205	Facility Access for Inspection Granted	CHSC	25511	
H206	**Business Plan Annual Review/Certification**	CHSC	25508.2	X
Violation	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the required due date.			
MINOR	OBSERVATION: At the time of the inspection, the last business plan certification by this facility was 3/30/2020 for the facility information and 3/8/2019 for the inventory and emergency response information.			
	CORRECTIVE ACTION: Certify the business plan via CERS. The CERS ID# 10049953.			
H209	Business Plan Update Within 30 days of Change	CHSC	25508.1(a)-(f)	
H210	Business Activities Page and/or Business Owner/Operator Identification Page		Multiple	
H211	Hazardous Materials Inventory	CHSC	Multiple	
H212	Site Map	CHSC	Multiple	
H213	Emergency Response Plan		Multiple	

H214	Training Program not Included and/or Not Adequate		Multiple	
H215	Training Documentation	CHSC	25505(a)(4)	
H216	Business Plan Readily Available	CHSC	25505(c)	
H220	Property Owner Notification	CHSC	25505.1	
H221	Property Owner Business Plan	CHSC	25505.1	
H222	Agricultural Handler Emergency Response Plan	CHSC	25508(a)(1), 25507.1	
H223	Agricultural Handler Training Program	CHSC	25508(a)(1), 25507.1	
H224	Remote Unstaffed Facility	CHSC	25505,25506,25507.2,255	
H225	Agricultural Handlers Warning Signs-Signs Posted		Multiple	

VIOLATION CODE	DESCRIPTION	SECTION		V
44	**HAZARDOUS WASTE GENERATOR**			
W101	Hazardous Waste Generator CUPA Permit	SBCC	23.0602	
W102	Facility Access for Inspection	CHSC	25185	
W103	HWG: Hazardous Waste Determination	CCR	66262.11	
W104	HWG: Identification Number	CCR	66262.12	
W108	HWG: Excluded Recyclable Materials	CHSC	25143.2, 25143.9	
W110	**HWG: Hazardous Waste Labeling Standards**	CCR	66262.34(f)	X
Violation:	Failure to properly label hazardous waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation date.			
MINOR	OBSERVATION: At the time of the inspection, observed (1) 55 gallon drum of used oil without a hazardous waste label.			
	CORRECTED ON SITE: Operator corrected the violation by adding a hazardous waste label during the inspection. Complied on: **7/7/2021**			
W111	HWG: Hazardous Waste Tank Label	CCR	66262.34(f)	
W117	HWG: Empty Containers >5 Gallons	CCR	66261.7	
W121	HWG: Quarantine Order	CHSC	25187.6	
W122	HWG: Reusable Soiled Textile Materials	CHSC	25144.6 (b)	
W124	HWG: Remote Consolidation Notification	CHSC	25110.10(d)	
W125	HWG: Preparation of the Hazardous Waste Manifest	CCR	66262.20	
W126	HWG: Hazardous Waste Manifest Completeness	CCR	66262.23(a)	
W127	HWG: Hazardous Waste Manifest Not Sent to DTSC	CCR	66262.23(a)(4)	
W128	HWG: Hazardous Waste Disposal Documentation	CCR	66262.40(a)	
W130	HWG: Maintaining Records of Test Result for Three Years	CCR	66262.40(c)	
W134	HWG: Used Oil Certification Form	CHSC	Multiple	
W136	HWG: Contamination of Used Oil	CHSC	25250.7	
W137	HWG: Consolidated Manifest	CHSC	25160.2	
W138	HWG: Used Oil Filter and Fuel Filter Handling Requirements	CCR	Multiple	
W139	HWG: Lead Battery Disposal Documentation	CCR	66266.81(a)(4)(B)	
W140	HWG: Management of Spent Vehicle Lead-Acid Batteries	CCR	66266.81(a)(1)	
W141	HWG: Management of 11 or More Spent Vehicle Lead-Acid Batteries	CCR	66266.81(a)(3)	
W142	HWG: Damaged Lead Battery Handling	CCR	66266.81(b)	
W145	HWG: Improper Disposal of Hazardous Waste	CHSC	25189.5(a), 25201(a)	
W148	HWG: Hazardous Waste Not Transported by Registered Hauler		Multiple	
W152	HWG: Excluded Recyclable Materials Report	CHSC	25143.10	
W155	HWG: Satellite Accumulation	CCR	66262.34(e)	
W156	HWG: Laboratory Waste	CHSC	25200.3.1(b)	
W157	HWG: Laboratory Waste Treatment	CHSC	25200.3.1 (c)	
W158	HWG: Program Data Electronic Report	CHSC	25404(e)(4)	
W159	HWG: Facility Information Reporting	SBCC	23.0602,23.0712	
W190	HWG: Land Disposal Restriction	CCR	Multiple	
W206	SQG: Facility Maintained to Prevent Fire/Explosion/Release	CCR	66262.34(d)(2)	
W207	SQG: Emergency Plan	CCR	66262.34(d)(2)	
W213	SQG: Time Exceeded for Hazardous Waste Conditional Accumulation (180 Days)		Multiple	
W214	SQG: Container in Poor Condition or Damaged	CCR	66262.34(d)(2)	
W216	SQG: Open Hazardous Waste Containers	CCR	66262.34(d)(2)	
W218	Generator of < 100 kg/mth: Accumulation Time Exceeded (180/270, or 90 Days for Acutely/Extremely)		Multiple	
W227	SQG: Hazardous Waste Manifest Exception Reporting		Multiple	
W231	SQG: Employee Training	CCR	66262.34(d)(2)	
W238	SQG: Weekly Hazardous Waste Storage Area Inspection	CCR	66262.34(d)(2)	
W245	SQG: Hazardous Waste Container Incompatible with Material Stored	CCR	66262.34(d)(2)	
W249	SQG: Aisle Space	CCR	66262.34(d)(2)	

W268	SQG: Incompatible Waste Storage	CCR	66262.34(d)(2)	
W269	SQG: Hazardous Waste Tank Spill Control/Overfill	CCR	66262.34(d)(2)	
W270	SQG: Daily Tank, Monitoring, and Discharge Inspection	CCR	66262.34(d)(2)	
W271	SQG: Weekly Hazardous Waste Tank Construction and System Fixture Inspection	CCR	66262.34(d)(2)	
W272	SQG: Hazardous Waste Facility Closure	CCR	66262.34(d)(2)	
W273	SQG: Tank 2ft Freeboard	CCR	66262.34(d)(2)	
W278	SQG: Hazardous Waste Minimization Certification	CCR	66262.27(b)	
W280	SQG: Emergency Coordinator	CCR	66262.34(d)(2)	
W281	SQG: Facility Emergency Equipment	CCR	66262.34(d)(2)	
W282	SQG: Emergency Equipment Maintenance	CCR	66262.34(d)(2)	
W306	LQG: Facility Maintained To Prevent Fire/Explosion/Release	CCR	66262.34(a)(4), 66265.31	
W307	LQG: Contingency Plan	CCR	66262.34(a)(4), 66265.51	
W308	LQG: Contingency Plan Copies	CCR	66262.34(a)(4), 66265.53	
W309	LQG: Contingency Plan Emergency Action Plan	CCR	66262.34(a)(4), 66265.52	
W313	LQG: Hazardous Waste Accumulation Time Exceeded		Multiple	
W314	LQG: Container in Poor Condition or Damaged	CCR	66262.34(a)(1), 66265.17	
W316	LQG: Open Hazardous Waste Container	CCR	66262.34(a)(1), 66265.17	
W318	LQG: Weekly Hazardous Waste Storage Areas Inspection	CCR	66262.34(a)(1), 66265.17	
W320	LQG: Hazardous Waste Tank Inspections	CCR	66262.34(a)(1), 66265.19	
W321	LQG: Hazardous Waste Tank Cathodic Inspection	CCR	66262.34(a)(1), 66265.19	
W324	LQG: Hazardous Waste Tank Equipment Replacement	CCR	66265.192(m)	
W325	LQG: Hazardous Waste Tank Release	CCR	66265.196	
W326	LQG: Tank Closure Requirements and Documentation	CCR	Multiple	
W331	LQG: Employee Hazardous Waste Training	CCR	66262.34(a)(4), 66265.16	
W332	LQG: Source Reduction Evaluation Review and Plan	CCR	67100.7, 67100.8	
W333	LQG: Summary Progress Report	CCR	67100.9	
W334	LQG: Source Reduction Implementation	CCR	67100.5	
W340	LQG: Hazardous Waste Minimization Certification	CCR	66262.27(a)	
W345	LQG: Hazardous Waste Container Incompatible with Material Stored	CCR	66262.34(a)(1), 66265.17	
W349	LQG: Aisle Space	CCR	66262.34(a)(4), 66265.35	
W350	LQG: New Hazardous Waste Tank System P.E. Certification	CCR	Multiple	
W351	LQG: Reassessment for Hazardous Waste Tank System P.E. Certification	CCR	66265.192(h)	
W352	LQG: New Tank Assessment Standards	CCR	66265.192(k)	
W353	LQG: Hazardous Waste Tank Standards	CCR	66262.34(a)(1), 66265.19	
W354	LQG: Secondary Containment	CCR	66262.34(a)(1), 66265.19	
W360	LQG: Incompatible Waste Storage	CCR	Multiple	
W369	LQG: Air Emissions for Waste in Containers	CCR	Multiple	
W371	LQG: Air Emissions for Wastes in Tanks	CCR	66262.34(a)(1), 66265.20	
W378	LQG: Hazardous Waste Manifest Exception Reporting	CCR	66262.42(a), (b), (d)	
W380	LQG: Emergency Coordinator	CCR	66262.34(a)(4), 66265.55	
W381	LQG: Facility Emergency Equipment	CCR	66262.34(a)(4), 66265.32	
W382	LQG: Emergency Equipment Maintenance	CCR	66262.34(a)(4), 66265.33	
W501	Certified Appliance Recycler: Certification	CHSC	25211.4	
W502	Certified Appliance Recycler: Certification	CHSC	25211.2, 25211.3	
W503	Certified Appliance Recycler: Materials that Require Special Handling (MRSH) properly managed	CHSC	25211.3, 25212, 25212(c)	
W504	Certified Appliance Recycler: Proper Removal of Materials that Require Special Handling (MRSH)	CHSC	25211.3, 25212(a)	
W901	Universal Waste Handler: Permit	SBCC	23.0602	
W902	Universal Waste Handler: Labeling Requirements	CCR	66273.34	
W903	Universal Waste Handler: Accumulation Time	CCR	66273.35	
W904	Universal Waste Handler: Employee Training	CCR	66273.36	
W907	Universal Waste: Accumulation of Aerosol Cans	CHSC	25201.16(f)	
W908	Universal Waste: Handling of Aerosol Cans	CHSC	25201.16(e)	
W911	Universal Waste Handler: Department Notification	CCR	66273.32(c)	
W912	Universal Waste Handler: Annual Report	CCR	66273.32(d)	
W913	Universal Waste Handler: Release	CCR	66273.33.5	
W914	Universal Waste Handler: USEPA Notification	CCR	66273.32(a)	
W915	Universal Waste Handler: Exporting Notification	CCR	66273.40(a)(3) and (4)	
W920	Universal Waste Handler: Illegal Disposal	CCR	66273.31(a)	
W923	Large Quantity Universal Waste Handler DTSC ID Number	CCR	66273.32(b)	

INSPECTED BY:	RECEIVED BY:	Signature Date Time: 7/7/21 12:06:23PM
Type text here		LTR:7/7/2021 12:05:06PM
ANA VILLANUEVA	NATHAN HIENRICH	LEAD
INSPECTOR NAME	NAME	TITLE
	INSPECTION DATE: 07/07/2021	REPORT DATE: 7/7/21 12:14 pm

[X] **This report shall serve as a notice to comply for minor violations and a notice of violation for all other violations. THE VIOLATIONS NOTED IN THIS REPORT MUST BE CORRECTED WITHIN 30 DAYS UNLESS OTHERWISE SPECIFIED. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.**

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CERTIFICATE OF COMPLIANCE

Return certification to inspector ANA VILLANUEVA within 30 days of inspection unless otherwise specified.

RESPONDENT: Nathan Hienrich

VIOLATION(S) CITED ON: 7/7/2021

FACILITY NAME: **FULL-CIRCLE, INC.** FACILITY ID: **FA0009441**

SITE ADDRESS: **4831 NEWTON RD** CERS ID: **10049953**

CITY: **YUCCA VALLEY** STATE: **CA** ZIP CODE: **92284**

Summary of Violations:

IMPORTANT- Attach all requested documentation when returning this certification.

H206 CORRECTIVE ACTION: Certify the business plan via CERS. The CERS ID# 10049953.

I certify under penalty of law that:

- Respondent has corrected violations specified in the above-entitled action.
- I have personally examined any documentation attached to this certification to establish that the violations have been corrected.
- Based on my examination of the attached documentation and inquiry of the individuals, who prepared or obtained them, I believe the information to be true, accurate and complete.
- I am authorized to file this certification on behalf of the Respondent.
- I am aware there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

SIGNATURE _____ DATE _____

PRINT NAME _____ TITLE _____

PHOTO NARRATIVE

PHOTO 1

PHOTO 2

Facility/ Case Name: Full-Circle, Inc.	Facility ID #: FA0009441
Address: 4831 Newton Rd Yucca Valley, CA 92284	
1) Description: Front of the facility.	
2) Description: (1) empty 5 gallon container, (1) ~8 gallon spill kit container, and (1) 55 gallon drum of used oil, missing a hazardous waste label during the inspection.	

Date Taken: 7/7/2021

Taken By: Ana Villanueva

Signature: _____

Rev 06/29/2018

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CUPA COMPLIANCE INSPECTION REPORT

NAME: **FULL-CIRCLE, INC.** FACILITY ID: **FA0009441**

ADDRESS: **4831 NEWTON RD** CERS ID:**10049953**

CITY: **YUCCA VALLEY** STATE: **CA** ZIP CODE: **92284** INSPECTION DATE: **1/31/2018**

Consent granted by:
☒ **photograph** ☒ **inspect** **Name:** Nathan Heinrich **Title:** Assistant Lead

An inspection was conducted on January 31, 2018 to determine compliance with hazardous materials and hazardous waste laws and regulations. Nathan Heinrich, was the facility escort.

The facility is a machine shop and manufacturer of metal swivel connectors. The facility stores hazardous materials and generate hazardous waste as a result of routine operations.

INVENTORY:
The hazardous materials stored onsite were consistent with hazardous materials inventory submitted via CERS on 2/24/2017

DOCUMENTATION REVIEW:
- Hazardous materials handler permit was obtained and expires January 31, 2019.
- Hazardous waste generator permit is current and expires January 31, 2019.
- Business Plan was established and last updated February 24, 2017. CERS ID: 10049953.
- EPA ID Number was obtained. CAL000212349 was active.
- Hazardous waste disposal records and manifests were available for review.
- Hazardous waste was removed by HCI Environmental.
- Parts cleaner was serviced by Safety Kleen
- Weekly inspections of hazardous waste accumulation and storage areas were conducted.
- Employee training was provided.

Contact Jerry Nguyen at 909-386-8401 or JNguyen@sbcfire.org with questions regarding this inspection report.

Refer to the California Health Safety Code (CHSC), California Code of Regulations (CCR) and San Bernardino County Code (SBCC). The following lines marked in the V column are violations that must be corrected.

VIOLATION CODE	DESCRIPTION	SECTION		V	
42	**HMRRP (HAZARDOUS MATERIALS HANDLER)**				
H201	Hazardous Material Handler Permit Current	SBCC	23.0602(a)		
H202	Hazardous Materials Business Plan Established and Implemented	CHSC	25507		
H203	Hazardous Materials Business Plan Submittal	CHSC	25505, 25508(a)(1)		
H204	Immediately report any release or threatened release of a hazardous material	CHSC	25510(a)		
H205	Facility access for inspection granted	CHSC	25511		
H206	Business Plan Annual Review/Certification	CHSC	25508(a)(1), 25508.2		
H209	Business plan update within 30 days of change	CHSC	25508.1(a)-(f)		
H210	Business Activities Page and/or Business Owner/Operator Identification Page	CHSC	25508(a)(1)		
H211	Hazardous materials inventory	CHSC	25505, 25506, 25508		
H212	Site map	CHSC	25505(a)(2), 25508(a)(1)		
H213	Emergency response plan	CHSC	25505(a)(3), 25508(a)(1)		
H214	Training Program not included and/or is not adequate	CHSC	25505(a)(4), 25508(a)(1)		
H215	Training Documentation	CHSC	25505(a)(4)		
H216	Business plan readily available	CHSC	25505,		
H220	Property owner notification	CHSC	25505.1		
H221	Property owner business plan	CHSC	25505.1		
H222	Agricultural handler emergency response plan	CHSC	25508(a)(1), 25507.1		
H223	Agricultural handler training program	CHSC	25508(a)(1), 25507.1		
H224	Remote unstaffed facility	CHSC	25505,25506,25507.2,255		

VIOLATION CODE	DESCRIPTION	SECTION	V	
44	**HAZARDOUS WASTE GENERATOR**			

0101	CUPA Hazardous Waste generator permit current	SBCC	23.0602(b)(1)		
0102	Facility access for inspection	CHSC	25185		
0103	Hazardous Waste determination	CCR	66262.11		
0104	EPA ID Number	CCR	66262.12(a)		
0105	Hazardous Waste treatment/storage authorization	CHSC	25201(a)		
0106	Facility Operated/Maintained to Prevent Release/Fire	CCR	66265.31		
0107	Contingency Plan established	CCR	66265.51(a)		
0108	Recyclable Materials managed lawfully	CHSC	25143.2		
0110	Hazardous Waste container(s) labeled Violation: Failure to properly label Hazardous Waste accumulation containers with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste and starting accumulation date. M Observation: Observed hazardous waste containers without proper labeling. Hazardous waste labeling was corrected at the time of inspection. Compliance requirement: Submit a signed statement or photograph indicating that the hazardous waste containers have been properly labeled. Complied on: **1/31/2018**	CCR	66262.34(f)(3)	X	
0111	Hazardous Waste label(s) complete	CCR	66262.34(f)(3)		
0112	Accumulation start date Violation: Failure to note accumulation start date on Hazardous Waste containers. M Observation: Observed hazardous waste containers with missing accumulation start date. Start date was marked at the time of inspection. Compliance requirement: Submit a signed statement or photograph indicating that the hazardous waste containers have been properly labeled with an accumulation start date. Complied on: **1/31/2018**	CCR	66262.34(f)(2)	X	
0113	Hazardous waste accumulation time exceeded	CCR	66262.34(a)		
0114	Hazardous Waste stored in sound containers	CCR	66265.171		
0115	Hazardous Waste containers leaking	CCR	66265.173(b)		
0116	Hazardous Waste containers closed	CCR	66265.173(a)		
0117	Contaminated containers managed lawfully	CCR	66261.7		
0118	Weekly inspection of Hazardous Waste container storage area	CCR	66265.174		
0119	Hazardous Waste managed lawfully	CHSC	25154		
0120	Daily inspection of Hazardous Waste tank storage area	CCR	66262.34, 66265.195		
0125	Hazardous Waste transported with a manifest	CCR	66262.20		
0126	Hazardous Waste Manifest complete	CCR	66262.23		
0127	Hazardous Waste manifest sent to DTSC	CCR	66262.23(a)(4)		
0128	Hazardous Waste uniform manifest retention	CCR	66262.40(a)		
0129	Biennial Report	CCR	66262.41		
0130	Hazardous Waste analyses retention	CCR	66262.40(c)		
0131	Hazardous Waste management training	CCR	66265.16		
0132	Source Reduction Evaluation Review and Plan (SB 14)	CHSC	25244.19(a)		
0135	Used Oil manage lawfully	CHSC	25250.4		
0136	Contamination of used oil	CHSC	25250.7		
0137	Consolidated manifest retention	CHSC	25250.8(b)(3)		
0138	Used Oil filters managed lawfully	CCR	66266.130		
0139	Spent lead-acid batteries managed lawfully	CCR	66266.81		
0145	Illegal disposal or abandonment of Hazardous Waste	CHSC	25189.5(a)		
0146	Unlawful disposal of used oil	CHSC	25250.5(a)		
0147	Transportation of Hazardous Waste without registration	CHSC	25163(a)		
0148	Hazardous Waste not hauled by registered transporter	CCR	66262.10		
0149	Transportation of hazardous waste to an unauthorized facility	CHSC	25189.5(c)		
0152	Excluded Recyclable Materials Report	CHSC	25143.10		
1240	Unlawful consolidation of hazardous waste generated at remote sites	CHSC	25110.10		
1241	Failure to maintain remote consolidation documents for a minimum of 3 years	CHSC	25110.10(b)(7)		
1244	Ignitable or reactive wastes stored within 50' of a property line	CCR	66264.176		
1245	Failure to store hazardous waste in compatible containers	CCR	66265.172		
1247	Failure to test and maintain safety, fire/release control and response equipment	CCR	66265.33		
1248	Failure to provide immediate access to alarm and emergency communications	CCR	66265.34(a)		
1249	Failure to maintain adequate aisle space	CCR	66265.35		
1262	Failure to provide secondary containment for aboveground hazardous waste tanks	CCR	66265.193(a)		
1267	Unlawful management of hazardous waste containers	CCR	66265.173(b)		
1268	Unlawful placing of wastes in the same container with incompatible waste or materials	CCR	66265.177(a)		
1269	Unlawful placing waste in containers previously holding incompatible waste or materials	CCR	66265.177(b)		

1270	Failure to separate incompatible materials	CCR	66265.177(c)		
1271	Failure to equip facility with internal communication or alarm system	CCR	66265.32(a)		
1272	Failure to equip facility with a device capable of summoning outside help	CCR	66265.32(b)		
1273	Failure to equip facility with safety, fire/release control and response equipment	CCR	66265.32(c)		
1274	Failure to provide facility with water at adequate volume and pressure	CCR	66265.32(d)		
1278	Failure to submit an Exception Report to DTSC	CCR	66262.42		
1279	Failure to maintain a copy of the Contingency Plan Onsite	CCR	66265.53(a)		
1280	Failure to provide an Emergency Coordinator	CCR	66265.55		
1281	Failure to remove spilled waste or precipitation from secondary tank containment within 24 hours	CCR	66265.193(c)(4)		
1285	Knowing disposal and/or abandonment of hazardous waste at an unauthorized point	CHSC	25189.5(b)		
1291	Providing unlawful false statements or representations on hazardous waste documents	CHSC	25189.2		
1292	Failure to provide a written response to a Notice of Violation	CHSC	25185(c)(3)		
1293	Failure to report a release or threatened release of a hazardous material	CHSC	25507(a)		
1295	Failure to submit Contingency Plan to the CUPA	CCR	66265.53(b)		
1296	Failure to implement the Contingency Plan	CCR	66265.51(b)		
1297	Failure to review and amend the Contingency Plan	CCR	66265.54		
1298	Failure to maintain used oil filter removal receipts on-site for 3 years	CCR	66266.130(c)(5)		
1299	Unlawful placing of hazardous wastes or treatment reagents into tank that could cause failure	CCR	66265.194(a)		
1300	Unlawful management of reusable soiled textile materials (contaminated rags and uniforms)	CHSC	25144.6		
1303	Failure to retain a copy of the Source Reduction Evaluation Review and Plan onsite	CCR	67100.3(a)		
1304	Failure to make a copy of the Source Reduction Evaluation Review and Plan available to the public	CCR	67100.3(b)		
1305	Unlawful, willful interference with a CUPA representative	CHSC	25195		
1307	Knowing treatment or storage of hazardous waste without a permit	CHSC	25189.5(d)		
1308	Enhancement-Unlawful violation of CHSC 25189.5(b), (c) or (d) causing great bodily injury or death	CHSC	25189.5(e)		
1309	Knowing transportation of hazardous waste without possession of a manifest	CHSC	25160(d)		
1310	Knowing or with reckless disregard treatment of hazardous waste causing unreasonable risk	CHSC	25189.6(a)		
1311	Knowing or with reckless disregard handling of hazardous waste causing unreasonable risk	CHSC	25189.6(a)		
1312	Knowing or with reckless disregard transportation of hazardous waste causing unreasonable risk	CHSC	25189.6(a)		
1313	Knowing or with reckless disregard disposal of hazardous waste causing unreasonable risk	CHSC	25189.6(a)		
1314	Knowing or with reckless disregard storage of hazardous waste causing unreasonable risk	CHSC	25189.6(a)		
1315	Enhancement - Knowing placement of another in imminent danger while violating CHSC 25189.6(a)	CHSC	25189.6(b)		
1316	Knowing burning of hazardous waste at an unauthorized point	CHSC	25189.7(a)		
1317	Enhancement - Knowing placement of another in imminent danger while violating CHSC 25189.7(a)	CHSC	25189.7(b)		
1318	Knowing making of false statements or representations in any hazardous waste document	CHSC	25191(b)(1)		
1319	Knowing possession of altered or concealed hazardous waste document	CHSC	25191(b)(2)		
1320	Knowing destruction, alteration, or concealment of a hazardous waste document	CHSC	25191(b)(3)		
1321	Knowing withholding of information regarding real and substantial danger after request by an agency	CHSC	25191(b)(4)		
1322	Unlawful use of used oil or recycled oil as a dust suppresant, weed or insect control	CHSC	25250.5(b)		
1323	Failure to use controls and practices to prevent spills from hazardous waste tanks	CCR	66265.194(b)		
1324	Failure to maintain sufficient hazardous waste tank freeboard	CCR	66265.194(b)(3)		
1325	Failure to remove a leaking or unfit hazardous waste tank from use	CCR	66265.196		
1326	Failure to remove or decontaminate waste residues when closing a tank system	CCR	66265.197(a)		
1327	Failure to provide adequate security of hazardous waste storage area(s)	CCR	66265.14(a)		
1328	Failure to post warning signs around hazardous waste storage area(s)	CCR	66265.14(c)		
1329	Failure to maintain hazardous waste management training records	CCR	66265.16(e)		
1401	Large Quantity Generator: New hazardous waste tank system P.E. certification	CCR	66265.192(a) & (h)		
1402	Large Quantity Generator: New Tank Assessment Standards	CCR	66265.192(k)		
1403	Large Quantity Generator: Secondary Containment	CCR	66265.193		
W501	Certified Appliance Recycler: Certification	CHSC	25211.4		
W502	Certified Appliance Recycler: Certification	CHSC	25211.2, 25211.3		
W503	Certified Appliance Recycler: Materials that Require Special Handling (MRSH) properly managed	CHSC	25211.3, 25212, 25212(c)		
W504	Certified Appliance Recycler: Proper Removal of Materials that Require Special Handling (MRSH)	CHSC	25211.3, 25212(a)		
W901	Universal Waste Handler: Permit	SBCC	23.0602(B)(1)		

W902	Universal Waste Handler: Labeling Requirements	CCR	66273.34		
W903	Universal Waste Handler: Accumulation Time	CCR	66273.35		
W904	Universal Waste Handler: Employee Training	CCR	66273.36		
W907	Universal Waste: Accumulation of Aerosol Cans	CHSC	25201.16(f)		
W908	Universal Waste: Handling of Aerosol Cans	CHSC	25201.16(e)		
W911	Universal Waste Handler: Department Notification	CCR	66273.32(c)		
W912	Universal Waste Handler: Annual Report	CCR	66273.32(d)		
W913	Universal Waste Handler: Release	CCR	66273.33.5		
W914	Universal Waste Handler: USEPA Notification	CCR	66273.32(a)		
W915	Universal Waste Handler: Exporting Notification Sent	CCR	66273.40(a)(3)		
W916	Universal Waste Handler: Export Notification Complete	CCR	66273.40(a)(4)		
W920	Universal Waste Handler: Illegal Disposal	CCR	66273.31(a)		
W923	Large Quantity Universal Waste Handler DTSC ID Number	CCR	66273.32(b)		

INSPECTED BY:	RECEIVED BY:	Signature Date Time: 1/31/18 2:12:17PM
		LTR:1/31/2018 2:09:20PM
JERRY NGUYEN	Nathan Heinrich	Assistant Lead
NAME	NAME	TITLE
	INSPECTION DATE: 01/31/2018	REPORT DATE: 1/31/18 2:14 pm

[X] **This report shall serve as a notice to comply for minor violations and a notice of violation for all other violations.**
THE VIOLATIONS NOTED IN THIS REPORT MUST BE CORRECTED WITHIN 30 DAYS UNLESS OTHERWISE SPECIFIED. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.

PHOTO NARRATIVE

PHOTO 1

PHOTO 2

Facility/Case Name:	Full Circle Inc	Facility ID#: FA0009441
Address: 4831 Newton Rd. Yucca Valley CA 92284		
Photo #1: The front view of the facility.		
Photo #2: (1) 55 gallon drum of simple green cleaner.		
Date Taken: 1/31/18	Taken By: Jerry Nguyen	

Signature: _____

PHOTO NARRATIVE

PHOTO 3

PHOTO 4

Facility/Case Name:	Full Circle Inc	Facility ID#: FA0009441
Address: 4831 Newton Rd. Yucca Valley CA 92284		
Photo #3: (1) 55 gallon drum of coolant, (1) 55 gallon drum of mineral spirits, and (1) 55 gallon drum of lubricating oil.		
Photo #4: (1) 15 gallon parts cleaner.		
Date Taken: 1/31/18	Taken By: Jerry Nguyen	

Signature: _____

PHOTO NARRATIVE

PHOTO 5

PHOTO 6

Facility/Case Name:	Full Circle Inc	Facility ID#: FA0009441
Address: 4831 Newton Rd. Yucca Valley CA 92284		
Photo #5: (1) 55 gallon drum of cutting oil.		
Photo #6: (1) 55 gallon of used oil located in hazardous waste storage area. Drum was closed. Drum was observed without hazardous waste label. Labeling was corrected during inspection.		
Date Taken: 1/31/18	Taken By: Jerry Nguyen	

Signature: _____

PHOTO NARRATIVE

PHOTO 7

PHOTO 8

Facility/Case Name:	Full Circle Inc	Facility ID#: FA0009441
Address: 4831 Newton Rd. Yucca Valley CA 92284		
Photo #7: (1) 55 gallon of used oil located in hazardous waste storage area. Drum was closed. Drum was observed without hazardous waste label. Labeling was corrected during inspection.		
Photo #8: (1) 55 gallon of used oil located in hazardous waste storage area. Drum was closed. Drum was observed without hazardous waste label. Labeling was corrected during inspection.		
Date Taken: 1/31/18	Taken By: Jerry Nguyen	

Signature: _____

PHOTO NARRATIVE

PHOTO 9

PHOTO 10

Facility/Case Name:	Full Circle Inc	Facility ID#: FA0009441
Address: 4831 Newton Rd. Yucca Valley CA 92284		
Photo #9: (1) 55 gallon of used oil located in hazardous waste storage area. Drum was closed. Drum was observed without hazardous waste label. Labeling was corrected during inspection.		
Photo #10: (1) 55 gallon drum of lubricating oil and (1) 55 gallon drum of coolant.		
Date Taken: 1/31/18	Taken By: Jerry Nguyen	

Signature: _____

PHOTO NARRATIVE

PHOTO 9

PHOTO 10

Facility/Case Name:	Full Circle Inc	Facility ID#: FA0009441
Address: 4831 Newton Rd. Yucca Valley CA 92284		
Photo #9: (1) 55 gallon drum of simple green cleaner.		
Photo #10: (1) 175 gallon intermediate bulk container of oily mop water located in hazardous waste storage area. IBC was closed and labeled.		
Date Taken: 1/31/18	Taken By: Jerry Nguyen	

Signature: _____

PHOTO NARRATIVE

PHOTO 9

PHOTO 10

Facility/Case Name:	Full Circle Inc	Facility ID#: FA0009441
Address: 4831 Newton Rd. Yucca Valley CA 92284		
Photo #9: (1) 500 gallon above ground storage tank of propane.		
Photo #10: (1) 300 gallon above ground storage tank of waste oil located in hazardous waste storage area. Tank was empty at the time of inspection.		
Date Taken: 1/31/18	Taken By: Jerry Nguyen	

Signature: _____

HAZARDOUS WASTE STORAGE AREA WEEKLY INSPECTION CHECKLIST

Inspector Name: Norman Baysinger Date: 1-2-15 Time: 8:40

Location of Inspection: B5 Total Number of Containers: 1

	YES	NO
1. Is the area free of debris and other materials?	☒	☐
2. Is the ground clean and dry?	☒	☐
3. Are container tops free of spillage?	☒	☐
4. Is the area free of spills or leaks?	☒	☐
5. Are all of the containers in good condition? (free of dents and corrosion, not bulging, or otherwise deteriorating?)	☒	☐
6. Are all containers properly closed?	☒	☐
7. Are containers labeled with hazardous waste labels?	☒	☐
8. Is the following information on the labels filled out?		
Generator name and address	☒	☐
Accumulation start date	☒	☐
Contents	☒	☐
Physical state	☒	☐
Hazardous properties	☒	☐
9. Is the information on the labels legible?	☒	☐
10. Have wastes been disposed of within the allowable accumulation time?	☒	☐
11. Are the containers compatible with their contents?	☒	☐
12. Are incompatible wastes stored separately?	☒	☐
13. Is there adequate aisle space?	☒	☐

Describe any observations for items checked 'NO'. _____

Corrective actions required. _____

* Inspections must be conducted on a weekly basis

* Maintain checklist as documentation of this requirement

* Inspection program must meet requirements of 22 CCR §66265.174

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JAN 20 2015
S.B. CO. FIRE DEPT

HAZARDOUS WASTE STORAGE AREA WEEKLY INSPECTION CHECKLIST

Inspector Name: Norman Baysinger Date: 12-26-14 Time: 7:30

Location of inspection: B5 Total Number of Containers: 1

	YES	NO
1. Is the area free of debris and other materials?	☑	☐
2. Is the ground clean and dry?	☑	☐
3. Are container tops free of spillage?	☑	☐
4. Is the area free of spills or leaks?	☑	☐
5. Are all of the containers in good condition? (free of dents and corrosion, not bulging, or otherwise deteriorating?)	☑	☐
6. Are all containers properly closed?	☑	☐
7. Are containers labeled with hazardous waste labels?	☑	☐
8. Is the following information on the labels filled out?		
Generator name and address	☑	☐
Accumulation start date	☑	☐
Contents	☑	☐
Physical state	☑	☐
Hazardous properties	☑	☐
9. Is the information on the labels legible?	☑	☐
10. Have wastes been disposed of within the allowable accumulation time?	☑	☐
11. Are the containers compatible with their contents?	☑	☐
12. Are incompatible wastes stored separately?	☑	☐
13. Is there adequate aisle space?	☑	☐

Describe any observations for items checked 'NO'. _____

Corrective actions required. _____

* Inspections must be conducted on a weekly basis

* Maintain checklist as documentation of this requirement

* Inspection program must meet requirements of 22 CCR §66265.174

Revised 10/12/2009

HAZARDOUS WASTE STORAGE AREA WEEKLY INSPECTION CHECKLIST

Inspector Name: Norman Baysinger Date: 12-19-14 Time: 12:00

Location of Inspection: B5 Total Number of Containers: 1

	YES	NO
1. Is the area free of debris and other materials?	☑	☐
2. Is the ground clean and dry?	☑	☐
3. Are container tops free of spillage?	☑	☐
4. Is the area free of spills or leaks?	☑	☐
5. Are all of the containers in good condition? (free of dents and corrosion, not bulging, or otherwise deteriorating?)	☑	☐
6. Are all containers properly closed?	☑	☐
7. Are containers labeled with hazardous waste labels?	☑	☐
8. Is the following information on the labels filled out?		
Generator name and address	☑	☐
Accumulation start date	☑	☐
Contents	☑	☐
Physical state	☑	☐
Hazardous properties	☑	☐
9. Is the information on the labels legible?	☑	☐
10. Have wastes been disposed of within the allowable accumulation time?	☑	☐
11. Are the containers compatible with their contents?	☑	☐
12. Are incompatible wastes stored separately?	☑	☐
13. Is there adequate aisle space?	☑	☐

Describe any observations for items checked 'NO'. _____

Corrective actions required. _____

* Inspections must be conducted on a weekly basis

* Maintain checklist as documentation of this requirement

* Inspection program must meet requirements of 22 CCR §66265.174

CUPA

San Bernardino County Fire Department • Hazardous Materials Division

620 South "E" Street, San Bernardino, CA 92415-0153 • (909) 386-8401 FAX (909) 386-8460 • www.sbcfire.org

CUPA COMPLIANCE INSPECTION REPORT

NAME: **FULL-CIRCLE, INC.**		FACILITY ID: **FA0009441**
ADDRESS: **4831 NEWTON RD**		CERS ID:**10049953**
CITY: **YUCCA VALLEY**	STATE: **CA** ZIP CODE: **92284**	INSPECTION DATE: **12/19/2014**

Inspector was given permission to: [X] photograph [X] inspect

Inspection Narrative (v020000)

An inspection was conducted to determine compliance with hazardous materials and hazardous waste generator laws and regulations. Norman Baysinger, Lead was the escort during the inspection. Also present during the inspection was Nathan Hainrich, Facility Employee. Digital photos were taken at the time of the inspection.

This facility is a machine manufacturer of metal swivel connectors for liquids and liquefied gases. For a description of facility see 09/19/2011 inspection report.

Per operator and manifest record review, this facility generates around 50 gallons of hazardous waste per month. The facility permits will be updated so to reflect the small quantity generator permits.

HAZARDOUS MATERIALS INVENTORY:

The hazardous materials stored on site are consisted with hazardous materials inventory submitted via CERS on 08/03/2013.

DOCUMENTATION REVIEW:

-Permits are current; expiration date of 01/31/2015. Permits to be updated to reflect correct category.
-Hazardous waste is hauled by HCI Environmental & Engineering Services
-Hazardous waste was last hauled on 09/04/2014
-Manifest waste disposal records available for review
-Safety Kleen services the parts washer
-The EPA ID number, CAL000212349, is established and active
-Uniforms and rags are serviced by Prudential Uniform Service
-Employee training was conducted
-The scrap metal is hauled by Davis Exporters Inc

Once all of the above-mentioned violations have been corrected, sign and date the enclosed Certificate of Compliance and return the certificate with required documentation by mail to the address listed above to the attention of Yanet Melgarejo.

If you have any further questions, please contact me at ymelgarejo@sbcfire.org or (909) 386-8401. "If you have any questions regarding CERS, please call the CERS Help Line at (909) 386-8432."

The following lines marked in the V column are violations that must be corrected. Marked items in the N column require additional information to determine compliance.

VIOLATION CODE	DESCRIPTION	SECTION	V	N
42	**HMRRP (HAZARDOUS MATERIALS HANDLER)**			
0201	Failure to obtain a CUPA Hazardous Materials Handler permit.	23.0602(a)		
0202	Failure to establish a Business Plan.	CAL. HEALTH & SAFETY CODE 25507		
0203	Failure to submit a Business Plan.	CAL. HEALTH & SAFETY CODE 25508		
0204	Failure to immediately report any release or threatened release of a hazardous material.	CAL. HEALTH & SAFETY CODE 25510		
0205	Failure to allow a hazardous materials handler inspection.	CAL. HEALTH & SAFETY CODE 25511		
0206	Failure to update the Business Plan	CAL. HEALTH & SAFETY CODE 25508.2	X	
Violation:	At least once every 12 months, the owner/owner shall review and certify that the information in the statewide information management system has been verified and is complete, accurate and up to date.			
Correction:	Using the California Environmental Reporting System (CERS), electronically update the information submitted to the statewide information management system.			
Observation:	The business plan elements were last submitted via CERS on 08/06/2013.			
	Comply by date: **1/18/2015**			
0209	Failure to submit an amendment to the inventory form within 30 days of change.	CAL. HEALTH & SAFETY CODE 25508.1		
1231	Failure to submit a corrected Business Plan within 30 days after notification of deficiencies.	CAL. HEALTH & SAFETY CODE 25508		
1232	Failure to submit a Business Plan revision within 30 days of a substantial change in operation.	CAL. HEALTH & SAFETY CODE 25505(b)		

VIOLATION CODE	DESCRIPTION	SECTION	V	N
44	**HAZARDOUS WASTE GENERATOR**			
0101	Failure to obtain CUPA Haz Waste Generator Permit	S.B. COUNTY CODE 23.0602(b)(1)		
0102	Failure to allow access to facility for inspection	CAL. HEALTH & SAFETY CODE 25185		
0103	Failure to determine if waste is hazardous waste	CAL. CODE OF REGULATIONS 66262.11		
0104	Failure to obtain an EPA ID Number	CAL. CODE OF REGULATIONS 66262.12(a)		
0105	Failure to obtain Hazardous Waste treatment/storag	CAL. HEALTH & SAFETY CODE 25201(a)		
0106	Failure to operate and maintain facility to preven	CAL. CODE OF REGULATIONS 66265.31	X	
Violation:	Failure to operate and maintain facility to prevent release/fire			
Correction:				
Observation:	Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or any unplanned release of hazardous waste to air, soil, or surface water, which could threaten human health or the environment. Any container holding hazardous waste shall be sound and kept closed during storage and transfer unless adding or removing waste. Observed (2) 55 gallon drums of oily water waste with no lids. The violation was corrected at the time of inspection: operator transferred the oily water waste to a sound and closed drum at the time of the inspection. Comply by date: **1/18/2015** Complied on: **12/19/2014**			
0107	Failure to establish a Contingency Plan	CAL. CODE OF REGULATIONS 66265.51(a)		
0108	Unlawful management of recyclable materials	CAL. HEALTH & SAFETY CODE 25143.2		
0110	Failure to label hazardous waste containers	CAL. CODE OF REGULATIONS 66262.34(f)(3)	X	
Violation:	Failure to label hazardous waste containers			
Correction:				
Observation:	All containers and tanks used to store a hazardous waste must be labeled or marked with the words "hazardous waste;" Containers accumulating used oil must be labeled with the words "Used Oil," and include the following information: generator name and address, hazardous properties of the waste, composition and physical state of the waste, and the accumulation start date. Observed (3) 55 gallon drums of oily water waste with missing hazardous waste labels. The violation was corrected at the time of the inspection: operator added new hazardous waste labels with all the required information to all the hazardous waste drums at the time of the inspection. Comply by date: **1/18/2015** Complied on: **12/19/2014**			
0111	Hazardous waste containers labels not complete	CAL. CODE OF REGULATIONS 66262.34(f)(3)	X	
Violation:	Hazardous waste containers labels not complete			
Correction:				
Observation:	All containers and tanks used to store a hazardous waste must be labeled or marked with the words "hazardous waste;" Containers accumulating used oil must be labeled with the words "Used Oil," and include the following information: generator name and address, hazardous properties of the waste, composition and physical state of the waste, and the accumulation start date. Observed (1) 55 gallon drum of used oil with damaged and faded hazardous waste labels. The violation was corrected at the time of the inspection: operator added new hazardous waste labels with all the required information to all the hazardous waste drums at the time of the inspection. Comply by date: **1/18/2015** Complied on: **12/19/2014**			
0112	Failure to note accumulation start date on labels	CAL. CODE OF REGULATIONS 66262.34(f)(2)	X	
Violation:	Failure to note accumulation start date on labels			
Correction:	You shall mark the initial date accumulation begins on your hazardous waste container(s)			
Observation:	Observed (3) 55 gallon drums of oily water waste, and (1) 55 gallon drum of used oil with missing accumulation start dates. Per operator the accumulation start date of the used oil is 10/01/2014, and 12/01/2014 for the oily water waste. The violation was corrected at the time of the inspection: operator added new hazardous waste labels with all the required information and the accumulation start date to all the hazardous waste drums at the time of the inspection. Comply by date: **1/18/2015** Complied on: **12/26/2014**			
0113	Hazardous waste accumulation time exceeded	CAL. CODE OF REGULATIONS 66262.34(a)		
0114	Failure to store hazardous waste in sound conts	CAL. CODE OF REGULATIONS 66265.171		
0115	Hazardous Waste containers leaking	CAL. CODE OF REGULATIONS 66265.173(b)		
0116	Failure to keep hazardous waste containers closed	CAL. CODE OF REGULATIONS 66265.173(a)	X	
Violation:	Failure to keep hazardous waste containers closed			
Correction:	You shall keep all hazardous waste containers closed at all times during storage or transfer except when adding or removing waste			
Observation:	Facilities shall be maintained and operated to minimize the possibility of a fire, explosion, or any unplanned release of hazardous waste to air, soil, or surface water, which could threaten human health or the environment. Any container holding hazardous waste shall be sound and kept closed during storage and transfer unless adding or removing waste. Observed (2) 55 gallon drums of oily water waste with no lids. The violation was corrected at the time of inspection: operator transferred the oily water waste to a sound and closed drum at the time of the inspection. Comply by date: **1/18/2015** Complied on: **12/19/2014**			

0117	Unlawful management of contaminated co rs	CAL. CODE OF LATIONS 66261.7	X	
	Violation: Unlawful management of contaminated containers Correction: All containers which have held a hazardous material, including hazardous waste, shall be handled as hazardous waste unless: no material can be poured from it; All empty containers larger than 5 gallons that previously held a hazardous material must be mar Observation: Containers, or inner liners removed from a container, that previously held a hazardous material or a hazardous waste are considered contaminated containers and shall be managed properly. Empty contaminated containers larger than 5 gallons must be marked with the word "Empty", the date that the container became empty and must be removed from the site within one year of that date. Observed (10) empty 55 gallon drums that previously held hazardous materials or hazardous waste. Per operator the oldest empty drum has been on site for less than 11 months. The violation was corrected at the time of inspection: operator marked all the drums with the word "Empty", and the dates that the drums became empty. Comply by date: **1/18/2015** Complied on: **12/19/2014**			
0118	Failure to inspect Hazardous Waste container stora	CAL. CODE OF REGULATIONS 66265.174	X	
	Violation: Failure to inspect Hazardous Waste container storage area weekly Correction: You shall inspect areas used for container storage or transfer at least weekly, looking for leaks and for deterioration. Submit copies of three weeks of inspection records. A sample weekly inspection checklist is available from this Department Observation: Hazardous waste storage areas and containers must be inspected weekly for leaking containers, proper labeling, debris, spillage, closed containers, compatible containers, and adequate aisle space. Hazardous waste storage area weekly inspections are not conducted. Corrective Text: Conduct Hazardous Waste Weekly Inspections. Submit three consecutive weeks of completed Weekly Hazardous Waste Storage Area Inspection Checklists. Comply by date: **1/18/2015**			
0119	Unlawful management of hazardous waste	CAL. HEALTH & SAFETY CODE 25154		
0120	Failure to inspect Hazardous Waste tank storage ar	CAL. CODE OF REGULATIONS 66265.195		
0125	Failure to transport hazardous waste under a Manif	CAL. CODE OF REGULATIONS 66262.20		
0126	Failure to complete the Hazardous Waste Manifest	CAL. CODE OF REGULATIONS 66262.23		
0127	Failure to send the Hazardous Waste Manifest to DT	CAL. CODE OF REGULATIONS 66262.23(a)(4)		
0128	Failure to retain Hazardous Waste Manifests for at	CAL. CODE OF REGULATIONS 66262.40(a)		
0129	Failure to prepare a Biennial Report	CAL. CODE OF REGULATIONS 66262.41		
0130	Failure to retain Hazardous Waste Analyses for at	CAL. CODE OF REGULATIONS 66262.40(c)		
0131	Failure to train facility personnel in haz waste	CAL. CODE OF REGULATIONS 66265.16		
0132	Failure to conduct a Source Reduction Eval Rev	CAL. HEALTH & SAFETY CODE 25244.19(a)		
0135	Unlawful management of used oil	CAL. HEALTH & SAFETY CODE 25250.4		
0136	Used oil contaminated with hazardous waste	CAL. HEALTH & SAFETY CODE 25250.7		
0137	Failure to maintain used oil disp receipts for 3yr	CAL. HEALTH & SAFETY CODE 25250.8(b)(3)		
0138	Failure to manage Used Oil filters lawfully	CAL. CODE OF REGULATIONS 66266.130		
0139	Failure to manage spent Lead-Acid batteries lawful	CAL. CODE OF REGULATIONS 66266.81		
0145	Illegal disposal or abandonment of Hazardous Waste	CAL. HEALTH & SAFETY CODE 25189.5(a)		
0146	Unlawful disposal of used oil	CAL. HEALTH & SAFETY CODE 25250.5(a)		
0147	Transportation of Haz Waste without registration	CAL. HEALTH & SAFETY CODE 25163(a)		
0148	Hazardous Waste not hauled by registered transport	CAL. CODE OF REGULATIONS 66262.10		
0149	Transportation of hazardous waste to unauth fac	CAL. HEALTH & SAFETY CODE 25189.5(c)		
1240	Unlawful consolidation of haz waste gen at remote	CAL. HEALTH & SAFETY CODE 25110.10		
1241	Failure to maintain remote consolidation documents	CAL. HEALTH & SAFETY CODE 25110.10(b)(7)		
1244	Ignitable or reactive wastes strd w/in 50' of prop	CAL. CODE OF REGULATIONS 66264.176		
1245	Failure to store haz waste in compatible container	CAL. CODE OF REGULATIONS 66265.172		
1247	Failure to test and maintain safety...eqt	CAL. CODE OF REGULATIONS 66265.33		
1248	Failure to provide immed access to alarm & emg cm	CAL. CODE OF REGULATIONS 66265.34(a)		
1249	Failure to maintain adequate aisle space	CAL. CODE OF REGULATIONS 66265.35		
1262	Failure to provide sec cont for abovegrnd hw tanks	CAL. CODE OF REGULATIONS 66265.193(a)		
1267	Unlawful management of hazardous waste containers	CAL. CODE OF REGULATIONS 66265.173(b)		
1268	Unlawful placing of wastes in container w/ incomp	CAL. CODE OF REGULATIONS 66265.177(a)		
1269	Unlawful placing waste in cont prev holding incmpt	CAL. CODE OF REGULATIONS 66265.177(b)		
1270	Failure to separate incompatible materials	CAL. CODE OF REGULATIONS 66265.177(c)		
1271	Failure to equip facility with int communications	CAL. CODE OF REGULATIONS 66265.32(a)		
1272	Failure to equip facility with a device to summon	CAL. CODE OF REGULATIONS 66265.32(b)		
1273	Failure to equip facility with safety...eqt	CAL. CODE OF REGULATIONS 66265.32(c)		
1274	Failure to provide facility with adequate water	CAL. CODE OF REGULATIONS 66265.32(d)		
1278	Failure to submit an Exception Report to DTSC	CAL. CODE OF REGULATIONS 66262.42		
1279	Failure to maintain a copy of the Contingency Plan	CAL. CODE OF REGULATIONS 66265.53(a)		
1280	Failure to provide an Emergency Coordinator	CAL. CODE OF REGULATIONS 66265.55		
1281	Failure to remove spilled waste...from sec cont	CAL. CODE OF REGULATIONS 66265.193(c)(4)		
1285	Knowing disposal and/or abandonment of haz wast	CAL. HEALTH & SAFETY CODE 25189.5(b)		
1291	Providing unlawful false statements or rep	CAL. HEALTH & SAFETY CODE 25189.2		
1292	Failure to provide a written response to a Notice	CAL. HEALTH & SAFETY CODE 25185(c)(3)		

1293	Failure to report a release or threatened re	CAL. HEALTH & [redacted]ETY CODE	25507(a)
1295	Failure to submit Contingency Plan to the CUPA	CAL. CODE OF REGULATIONS	66265.53(b)
1296	Failure to implement the Contingency Plan	CAL. CODE OF REGULATIONS	66265.51(b)
1297	Failure to review and amend the Contingency Plan	CAL. CODE OF REGULATIONS	66265.54
1298	Failure to maintain used oil filter receipts	CAL. CODE OF REGULATIONS	66266.130(c)(5)
1299	Unlawful placing of hazardous wastes... into tank..	CAL. CODE OF REGULATIONS	66265.194(a)
1300	Unlawful management of...contaminated rags & linens	CAL. HEALTH & SAFETY CODE	25144.6
1303	Failure to retain a copy of Source Reduction Eval	CAL. CODE OF REGULATIONS	67100.3(a)
1304	Failure to make a copy of Source Reduction Eval	CAL. CODE OF REGULATIONS	67100.3(b)
1305	Unlawful, willfull interference of a CUPA rep	CAL. HEALTH & SAFETY CODE	25195
1307	Knowing treatment or storage of haz waste w/o perm	CAL. HEALTH & SAFETY CODE	25189.5(d)
1308	Enhancement - Unlawful violation of CHSC 25189.5(b	CAL. HEALTH & SAFETY CODE	25189.5(e)
1309	Knowing transportation without manifest	CAL. HEALTH & SAFETY CODE	25160(d)
1310	Knowing treatment causing unreasonable risk	CAL. HEALTH & SAFETY CODE	25189.6(a)
1311	Knowing handling causing unreasonable risk	CAL. HEALTH & SAFETY CODE	25189.6(a)
1312	Knowing transportation causing unreasonable risk	CAL. HEALTH & SAFETY CODE	25189.6(a)
1313	Knowing disposal causing unreasonable risk	CAL. HEALTH & SAFETY CODE	25189.6(a)
1314	Knowing storage causing unreasonable risk	CAL. HEALTH & SAFETY CODE	25189.6(a)
1315	Enhancement - Knowing placement of another in ...	CAL. HEALTH & SAFETY CODE	25189.6(b)
1316	Knowing burning hw at an unauthorized point	CAL. HEALTH & SAFETY CODE	25189.7(a)
1317	Enhancement - Knowing placement of another in ...	CAL. HEALTH & SAFETY CODE	25189.7(b)
1318	Knowing making of false statements	CAL. HEALTH & SAFETY CODE	25191(b)(1)
1319	Knowing poss of altered or concealed haz waste doc	CAL. HEALTH & SAFETY CODE	25191(b)(2)
1320	Knowing destruction, alteration, or concealment ..	CAL. HEALTH & SAFETY CODE	25191(b)(3)
1321	Knowing w/holding info re: real & substnl danger	CAL. HEALTH & SAFETY CODE	25191(b)(4)
1322	Unlawful use of used/recycled oil as dust/weed ctr	CAL. HEALTH & SAFETY CODE	25250.5(b)
1323	Failure to use controls & practices to prev spills	CAL. CODE OF REGULATIONS	66265.194(b)
1324	Failure to maintain suf haz waste tank freeboard	CAL. CODE OF REGULATIONS	66265.194(b)(3)
1325	Failure to remove a leaking/unfit haz waste tank	CAL. CODE OF REGULATIONS	66265.196
1326	Failure to remove or decontaminate waste residues	CAL. CODE OF REGULATIONS	66265.197(a)
1327	Failure to provide security of haz waste strg area	CAL. CODE OF REGULATIONS	66265.14(a)
1328	Failure to post warning signs haz wst storage area	CAL. CODE OF REGULATIONS	66265.14(c)
1329	Failure to maintain haz waste management training	CAL. CODE OF REGULATIONS	66265.16(e)

INSPECTED BY: YANET MELGAREJO — NAME

RECEIVED BY: NORMAN BAYSINGER — NAME — LEAD — TITLE

Signature Date Time: 12/19/14 11:39:33AM
LTR:12/19/2014 11:31:36AM

INSPECTION DATE: 12/19/2014 PRINTED ON: 12/19/14 11:42 am

[X] **NOTICE OF VIOLATION: THE VIOLATIONS NOTED IN THIS REPORT MUST BE CORRECTED WITHIN THE SPECIFIED TIMEFRAME. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION.**

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CERTIFICATE OF COMPLIANCE

Return Certification within 30 Days of Reciept to Inspector YANET MELGAREJO

RESPONDENT: NORMAN BAYSINGER

VIOLATION(S) CITED ON: 12/19/2014 CERTIFICATE OF COMPLIANCE DATE: 12/19/2014

NAME: **FULL-CIRCLE, INC.** FACILITY ID: **FA0009441**

ADDRESS: **4831 NEWTON RD** CERS ID:**10049953**

CITY: **YUCCA VALLEY** STATE: **CA** ZIP CODE: **92284**

Attach the following documentation when returning the Certificate of Compliance:

0206 Using the California Environmental Reporting System (CERS), electronically update the information submitted to the statewide information management system.The business plan elements were last submitted via CERS on 08/06/2013.

0118 You shall inspect areas used for container storage or transfer at least weekly, looking for leaks and for deterioration. Submit copies of three weeks of inspection records. A sample weekly inspection checklist is available from this DepartmentHazardous waste storage areas and containers must be inspected weekly for leaking containers, proper labeling, debris, spillage, closed containers, compatible containers, and adequate aisle space.
Hazardous waste storage area weekly inspections are not conducted.
Corrective Text: Conduct Hazardous Waste Weekly Inspections. Submit three consecutive weeks of completed Weekly Hazardous Waste Storage Area Inspection Checklists.

I certify under penalty of law that:

- Respondent has corrected violations specified in the above-entitled action.
- I have personally examined any documentation attached to this certification to establish that the violations have been corrected.
- Based on my examination of the attached documentation and inquiry of the individuals, who prepared or obtained them, I believe the information to be true, accurate and complete.
- I am authorized to file this certification on behalf of the Respondent.
- I am aware there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

SIGNATURE DATE

PRINT NAME TITLE

PHOTO NARRATIVE

PHOTO 1

PHOTO 2

Facility/Case Name:	Full-Circle Inc	Facility ID#: 0009441
Address: 4831 Newton Rd, Yucca Valley, CA 92284.		
Description #1: (2) open 55 gallon drums of oily water waste with missing hazardous waste labels.		
Description #2: (1) 55 gallon drum of oily water waste with missing hazardous waste label (front), 10 empty 55 gallon drums that previously held hazardous materials or hazardous waste (back).		
Date Taken: 12/19/2014	Taken By: Yanet Melgarejo	

Signature: Yanet Melgarejo

Revised 02/27/03

PHOTO NARRATIVE

PHOTO 3

PHOTO 4

Facility/Case Name:	Full-Circle Inc	Facility ID#: 0009441
Address: 4831 Newton Rd, Yucca Valley, CA 92284.		
Description #3: (2) 55 gallon drums of oily water waste, operator corrected the open drums and the labeling violations by placing the oily water waste in a sound and closed drum, and by adding new hazardous waste labels with all the required information to the oily water waste drums (same as shown on photo #1 and #2).		
Description #4: (1) 55 gallon drum of used oil with missing hazardous waste label (front), and (1) empty aboveground storage tank (back).		
Date Taken: 12/19/2014	Taken By: Yanet Melgarejo	

Signature:

Revised 02/27/03

PHOTO NARRATIVE

PHOTO 5

PHOTO 6

Facility/Case Name:	Full-Circle Inc	Facility ID#: 0009441
Address: 4831 Newton Rd, Yucca Valley, CA 92284.		
Description #5: (1) 55 gallon drum of used oil (front) and (1) empty aboveground storage tank (back), (same as shown of photo # 4). The operator corrected the labeling violation by adding a new hazardous waste label to the (1) 55 gallon drum of used oil at the time of the inspection.		
Description #6: (10) empty 55 gallon drums that previously held hazardous materials or hazardous waste, plus (2) 55 gallon drums that became empty at the time of the inspection. The operator corrected the contaminated container violation by marking the drums with the word "empty" and the date the drums became empty.		
Date Taken: 12/19/2014	Taken By: Yanet Melgarejo	

Signature:

Revised 02/27/03

SAN BERNARDINO COUNTY FIRE DEPARTMENT

Facility File

SOURCE - ENVISION COMPLAINT

SITE LOCATION: **4831 NEWTON RD YUCCA VALLEY**
RELATED ID:

RECORD ID: **CO0028764**
ACCOUNT ID: **AR0010050**

FACILITY INFO

FACILITY: **FA0009441**
FACILITY NAME: **FULL-CIRCLE, INC.**
FACILITY ADDRESS: **4831 NEWTON RD**
CITY: **YUCCA VALLEY** STATE: **CA** ZIP: **92284**

CONTACT

COMPLAINT

COMPLAINANT: **ANONYMOUS**
ADDRESS:
CITY:
COUNTRY: **USA** STATE: ZIP:
WORK PHONE: [redacted] EXT:
HOME PHONE: EXT:
FAX:
EMAIL ADDRESS:

DISPOSITION

RECEIVED BY: **CARLEEN WILEY**
RECEIVED DATE: **08/10/2011** RECEIVED TIME: **13:41:00**
ASSIGNED TO: **GHEORGHE MAN**
ASSIGNED DATE: **08/10/2011** ASSIGNED TIME: **16:02:34**
STATUS: **CLOSED**
PROGRAM ELEMENT:

INFORMATION

PROPERTY INFO

PROP NAME: **FULL-CIRCLE, INC.**
BUS NAME: **FULL-CIRCLE INC.**
ADDRESS: **4831 NEWTON RD**
2nd ADDRESS:
CITY: **YUCCA VALLEY** STATE: **CA** ZIP: **92284**
COUNTRY:
PHONE 1: **760-369-1234** EXT:

OWNER'S INFO

OWNER NAME: **SMITH CONNECTORS, INC.**
BUSINESS NAME:
ADDRESS: **1299 LAWRENCE DR**
2ND ADDRESS:
CITY: **NEWBURY PARK** STATE: **CA** ZIP: **91320**
HOME PHONE: **805-498-2589** EXT:
WORK PHONE: EXT:

LOCATION

LOCATION

CENSUS:
DISTRICT:
LOCATION:
CITY CODE:
JURISDICTION:
PROPERTY TYPE:
INSPECTION CODE:
APN:

ER INFO (UDF)

OES NUMBER: **11-4756** HOURS:
INCIDENT TYPE: **DISPOSAL HAZ WASTE/RELEASED**
ENVIRONMENT TYPE: **FACILITY SITE**
REFERRAL AGENCY: REFERRAL DATE:
HAULER'S NAME:
NUMBER HOSPITALIZED:
CHEMICAL INFO 1: **MACHINE COOLANT - UNKNOWN AMOUNT**
AGENCY NOTIFICATION: **Y**
DRUG LAB:
E/R TEAM RESPONDED:
SUSPECT
PARTY NAME:
COMPANY NAME:
ADDRESS:
DOB:
PHONE: EXT:
LICENSE NUMBER:
COST RECOVERY:

RESPONDING AGENCY 1:
RESPONDING AGENCY 2:
RESPONDER 1:
RESPONDER 2:
RESPONDER 3:
RESPONDER 4:
CHEMICAL INFO:
RELEASED ☐ CONTAINED ☐ REMOVED ☐

INSPECTED/RESOLVED

EMPLOYEE:
RESOLVE DATE: **09/14/2011**
REQUIRES FURTHER ACTION ☐

PERMIT INFORMATION

PERMITS CURRENT? YES or NO

RECORD ID	PE	PERMIT STATUS	JANCE STATUS	FROM DATE	TO DATE
PT0016131	SPECIAL GENERATOR(B)	ACTIVE			
PT0016132	SPECIAL HANDLER	ACTIVE			

COMPLAINT DESCRIPTION: CALLER STATES THAT THERE WAS A RELEASE OF AN UNKNOWN AMOUNT OF MACHINE COOLANT FROM SEVERAL MACHINE HAT HAD BEEN CLEANED OUT ONTO D.

BLUE BOOK COMMENT

ENTERED BY: **CARLEEN WILEY** ENTERED DATE: **09/20/2011** UPDATED BY: UPDATED DATE:

PER INSPECTION OF 09/14/2011, MACHINE FLUID ARE DISPOSED OF THROUGHT LICENSED HAULER - RECEIPTS WERE AVAILABLE. NO EVIDENCE OF A RELEASE. A STAIN/WET SPOT OBSERVED ON PAVEMENT SCOPING TO DIRT AREA. OPERATOR STATED THAT THIS AREA IS USED FOR MOP BUCKET RINSING AND POSSIBLE ISSUES ASSOCIATED WITH STORM-WATER RUNOFF/NPDES. NO VIOLATIONS CITED. (GHEORGE MAN)
Tuesday, September 20, 2011 10:30 AM - CARLEEN WILEY

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Full-Circle Inc.
PO Box 276
Newbury Park, CA
91319

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Warren R Smith ☐ Agent ☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery 9/27/11

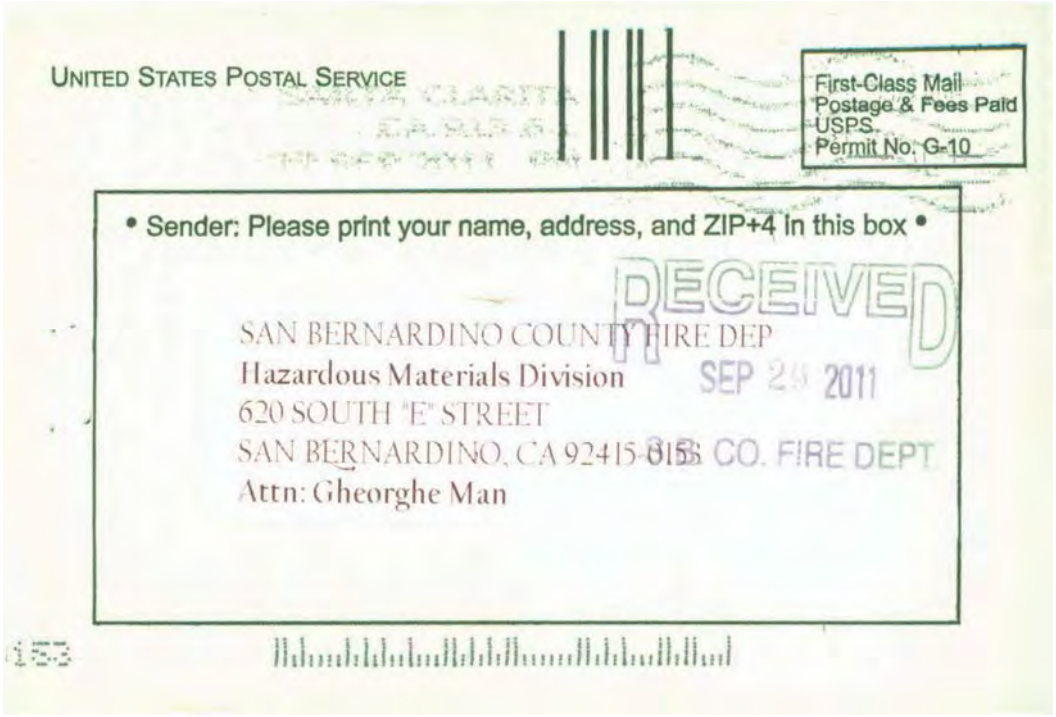
D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

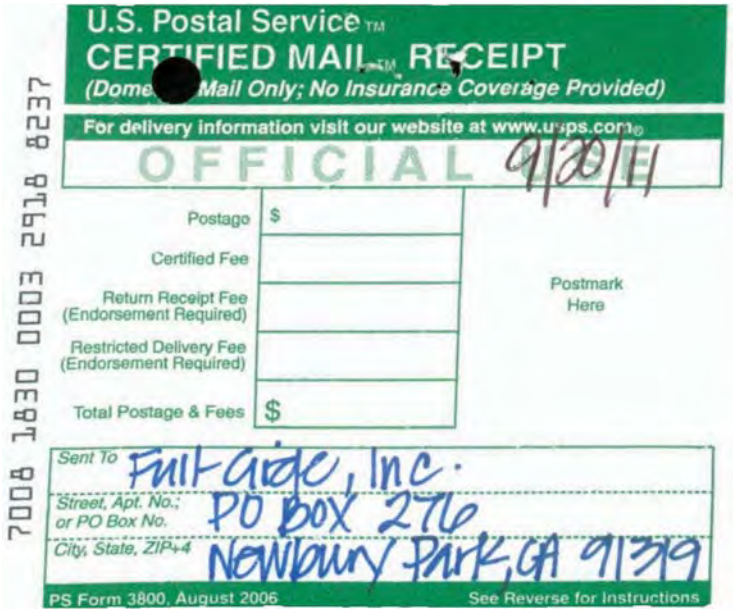
3. Service Type
☑ Certified Mail ☐ Express Mail
☑ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number
(Transfer from service label) 7008 1830 0003 2918 8237

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540


UNITED STATES POSTAL SERVICE
First-Class Mail
Postage & Fees Paid
USPS
Permit No. G-10
• Sender: Please print your name, address, and ZIP+4 in this box •
SAN BERNARDINO COUNTY FIRE DEP
Hazardous Materials Division
620 SOUTH "E" STREET
SAN BERNARDINO, CA 92415-0153
Attn: Gheorghe Man
RECEIVED
SEP 29 2011
CO. FIRE DEPT


U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OFFICIAL USE
9/20/11
Postage $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees $
Postmark Here
7008 1830 0003 2918 8237
Sent To Fruit Grade, Inc.
Street, Apt. No.; or PO Box No. PO Box 276
City, State, ZIP+4 Newbury Park, CA 91319
PS Form 3800, August 2006
See Reverse for Instructions

Certified Mail Provides:

- A mailing receipt
- A unique identifier for your mailpiece
- A record of delivery kept by the Postal Service for two years

Important Reminders:

- Certified Mail may ONLY be combined with First-Class Mail® or Priority Mail®.
- Certified Mail is *not* available for any class of international mail.
- NO INSURANCE COVERAGE IS PROVIDED with Certified Mail. For valuables, please consider Insured or Registered Mail.
- For an additional fee, a *Return Receipt* may be requested to provide proof of delivery. To obtain Return Receipt service, please complete and attach a Return Receipt (PS Form 3811) to the article and add applicable postage to cover the fee. Endorse mailpiece "Return Receipt Requested". To receive a fee waiver for a duplicate return receipt, a USPS® postmark on your Certified Mail receipt is required.
- For an additional fee, delivery may be restricted to the addressee or addressee's authorized agent. Advise the clerk or mark the mailpiece with the endorsement *"Restricted Delivery"*.
- If a postmark on the Certified Mail receipt is desired, please present the article at the post office for postmarking. If a postmark on the Certified Mail receipt is not needed, detach and affix label with postage and mail.

IMPORTANT: Save this receipt and present it when making an inquiry.

PS Form 3800, August 2006 (Reverse) PSN 7530-02-000-9047

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CERTIFICATE OF COMPLIANCE

Certified Mail: # 7008 1830 0003 8918 8237

Return Certification within 30 **Days of Receipt to Inspector** GHEORGHE MAN

In the Matter of Respondent: **MR. NORMAN BAYSINGER**

Violation(s) cited on: **9.14.2011** *FA #::* **9441**

Facility Name: **FULL-CIRCLE, INC.**

Site Address: **4831 NEWTON RD., YUCCA VALLEY**

Certificate of Compliance Date: **9.19.2011**

I certify under penalty of law that:

- *Respondent has corrected the violations specified in the above-entitled action.*
- *I have personally examined any documentation attached to this certification to establish that the violations have been corrected.*
- *Based on my examination of the attached documentation and inquiry of the individuals, who prepared or obtained them, I believe the information to be true, accurate and complete.*
- *I am authorized to file this certification on behalf of the Respondent.*
- *I am aware there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

x R. Smith
Signature

x 9-30-11
Date

x Russell Smith
Printed or Typed Name

x Quality Coordinator
Title

Attach the following documentation when returning the Certificate of Compliance:

1. **Original AND one copy of Business Emergency/Contingency Plan (203).**
2. **Signed statement as required by violation 136.**

ENTERED
OCT 07 2011

RECEIVED
OCT 05 2011
S.B. CO. FIRE DEPT

Form Revised 1/16/2007

DISTRIBUTION: White – CUPA File Yellow – Facility Pink – CUPA Inspector

10.12.2011

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HAZARDOUS WASTE GENERATOR AND HAZARDOUS MATERIALS HANDLER INSPECTION REPORT

FA #: 9441 Facility Name: FULL – CIRCLE, INC. Inspection Date: 9.14.2011

Site Address: 4831 NEWTON RD. Phone #: 760.369.1234

City: YUCCA VALLEY Zip Code: 92284 EPA ID #: CAL000212349

Consent Granted by:

☒ Inspect ☐ Photograph Name: MR. NORMAN BAYSINGER Title: LEAD # Emp: 6

Refer to Title 19 and Title 22 of the California Code of Regulations (CCR), Chapter 6.5 of the Health and Safety Code (CHSC) and Division 3 of Title 2 of the San Bernardino County Code (CC). The following code sections are either in Violation (V) of, in Compliance (C) with, the applicable laws and regulations, or compliance is not applicable, not addressed or unknown (N).

GENERAL REQUIREMENTS FOR GENERATORS		V	C	N
101. Hazardous Waste Generator Permit current	CC 23.0602(b)(1)		X	
102. Facility access for inspection granted - HW only	CHSC 25185		X	
103. Hazardous Waste determination made	CCR 66262.11			X
104. EPA ID Number obtained	CCR 66262.12(a)		X	
105. Hazardous Waste storage/treatment authorization	CHSC 25189.5(d)			X
106. Facility operated/maintained to prevent release/fire	CCR 66265.31		X	
107. Contingency Plan established	CCR 66265.51(a)		X	
108. Recyclable materials managed lawfully	CHSC 25143.2			X
905. Universal Waste managed lawfully	CCR 66273		X	
STORAGE AND LABELING REQUIREMENTS				
110. Tank/container labeled/marked "Hazardous Waste"	CCR 66262.34(f)(3)		X	
111. Hazardous Waste label complete	CCR 66262.34(f)(3)		X	
112. Accumulation start date on tank/container	CCR 66262.34(f)(2)		X	
113. Hazardous Waste accumulation time not exceeded	CCR 66262.34		X	
114. Hazardous Waste containers sound	CCR 66265.171		X	
115. Hazardous Waste containers not leaking	CCR 66265.173(b)		X	
116. Hazardous Waste containers closed	CCR 66265.173(a)		X	
117. Contaminated containers managed properly	CCR 66261.7			X
118. Container storage area inspected weekly	CCR 66265.174		X	
119. Hazardous Waste managed lawfully	CHSC 25154		X	
120. Hazardous Waste aboveground tank system inspected	CCR 66262.34			X
HAZARDOUS WASTE RECORDS AND MANIFESTS				
125. Hazardous Waste transported with a manifest	CCR 66262.20(a)		X	
126. Hazardous Waste manifest complete	CCR 66262.23		X	
127. Hazardous Waste manifests sent to DTSC	CCR 66262.23(a)(4)			X
128. Manifests retained for at least 3 years	CCR 66262.40(a)		X	
129. Biennial Report prepared	CCR 66262.41			X
130. Hazardous Waste analyses retained for 3 years	CCR 66262.40(c)			X
131. Training documentation complete & available	CCR 66265.16		X	
132. Copy of completed SB 14 available	CCR 67100.3			X
135. Used oil managed properly	CHSC 25250.4		X	
136. Used oil not contaminated with Hazardous Waste	CHSC 25250.7	X		
137. Consolidated manifesting records available	CHSC 25160.2(b)(3)		X	
138. Used oil filters managed lawfully	CCR 66266.130			X
139. Spent lead acid batteries managed lawfully	CCR 66266.81			X
DISPOSAL AND TRANSPORTATION				
145. Illegal disposal/abandonment of Hazardous Waste	CHSC 25189.5(a)			X
146. Illegal disposal of used oil	CHSC 25250.5(a)			X
147. Transporting Hazardous Waste w/o valid registration	CHSC 25163			X
148. Hazardous Waste hauled by transporter w/o valid registration	CHSC 25163			X
149. Hazardous Waste transported to an unauthorized facility	CHSC 25189.5(c)			X

GENERAL REQUIREMENTS FOR HANDLERS		V	C	N
201. Hazardous Material Handler permit current	CC 23.0602(b)(3)		X	
202. Business Plan established	CHSC 25503.5		X	
203. Business Plan submitted/updated	CHSC 25505	X		
204. Hazardous Materials release reported	CHSC 25507			X
205. Facility access for inspection granted – HM	CHSC 25508		X	
206. Regulated Substances registration filed	CHSC 25533(a)			X
207. SPCC Plan prepared	CHSC 25270.5(c)			X

INSPECTION NARRATIVE

An inspection was conducted on 9.14.2011 to determine compliance with applicable hazardous materials and hazardous waste laws and regulations, and to follow up on an anonymous complaint alleging that the facility released machine fluids onto the ground. Mr. Norman Baysinger – Lead, was the inspection escort. Photographs were not taken during the inspection. Photographs may be taken with the approval of the corporate office. A photograph of the front of the facility was taken from the public road.

This facility manufactures swivel connectors (machined metal parts) for liquids and liquefied gases. Various lubricating and coolant fluids associated with the machining process are used. Rust inhibiting solution and carbon dioxide gas is used for the parts testing process. Hazardous waste is generated from the machining process and parts testing. A 499-Gal propane tanks is also located on site.

☒ NOTICE OF VIOLATION: THE VIOLATIONS NOTED ABOVE MUST BE CORRECTED WITHIN 30 DAYS. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.

Inspected By: _____ (Sign Name) Received By: CERTIFIED MAIL (Sign Name) Title: N/A

GHEORGHE MAN (Print Name) N/A (Print Name) Report Date: 9.19.2011

Form Revised 1/16/2007

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SUPPLEMENTAL INSPECTION REPORT

INSPECTION DATE:	9.14.2011

FACILITY ID	FACILITY NAME:	FACILITY LOCATION:
9441	FULL – CIRCLE, INC.	4831 NEWTON RD., YUCCA VALLEY
Consent Granted by: X Inspect Photograph	NAME: MR. NORMAN BAYSINGER	TITLE: LEAD

Inventory:

(1) ~20-Gal parts washer/solvent
(2) 55-Gal drum of hydraulic fluid
(1) 55-Gal drum of Simple Green cleaner
(2) 55-Gal drum of lapping oil
(1) 499-Gal propane tank
(1) 500-Gal used oil container
(10) ~200-FT^3 cylinders of CO_2.
(1) Parts washer/mineral spirits
(1) ~200-FT^3 cylinder of oxygen
(1) 55-Gal drum of way oil
(1) 55-Gal drum of mineral spirits
(1) 55-Gal drum of Trim Sol coolant
(5) Machines, each containing hydraulic and cooling fluids

Document Review:

The CUPA permits are current. The most recent Business Plan on file is dated 2005. Hazardous waste disposal records were available. Recycle It Environmental Services is the hazardous waste hauler. The parts washer is serviced by Safety-Kleen. EPA ID number CAL000212349 is in active status and is being used for hazardous waste tracking. MSDS' were available at time of inspection. Employee safety training is provided. Universal waste management requirements were discussed.

Correct the following violations within 30 days of receipt of this report:

203. Failure to update the Business Plan – California Health and Safety Code (CHSC) 25505. A Business Plan update or recertification is required annually by March 1. A full plan update is required every 3 years. This facility has not submitted an update since 2005. A full plan update is required at this time.

Compliance Requirement: Submit the original AND one copy of the Business Emergency/Contingency Plan to this Division within 30 days of receipt of this report.

☒ NOTICE OF VIOLATION: THE VIOLATIONS NOTED ABOVE MUST BE CORRECTED WITHIN 30 DAYS. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.

Inspected By: _____ (Sign Name) Received By: CERTIFIED MAIL (Sign Name) Title: N/A

GHEORGHE MAN (Print Name) N/A (Print Name) Report Date: 9.19.2011

Form Revised 1/16/2007

CUPA
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SUPPLEMENTAL INSPECTION REPORT

INSPECTION DATE: 9.14.2011		
FACILITY ID 9441	FACILITY NAME: FULL – CIRCLE, INC.	FACILITY LOCATION: 4831 NEWTON RD., YUCCA VALLEY
Consent Granted by: XInspect Photograph	NAME MR. NORMAN BAYSINGER	TITLE LEAD

136. Failure to maintain used oil uncontaminated with hazardous waste – CHSC 25250.7. Waste must be properly managed and not be contaminated with other hazardous waste. The operator stated that rust inhibiting liquid waste associated with the parts testing dip tank is disposed of as hazardous waste by pouring in the waste oil tank.

Compliance Requirement: Hazardous waste streams must be stored, managed and disposed of separately. Submit a signed statement indicating that dip tank hazardous waste will not be mixed with used oil, it will be tracked separately and properly managed through a hazardous waste hauler.

Comments:

The operator stated that a release of machine fluids has not occurred. However, a stain was observed in the driveway near the north side of the facility. The stain continued onto a small area of dirt. The operator stated this area is used for rinsing the mop buckets and the stain is caused by rusting of residual metal chips. Operator was advised to maintain all areas of the facility clean. Some facilities containerize and manage mop water through a hazardous waste hauler/disposal facility. Runoff onto dirt from mop bucket rinsing activities may have storm water runoff/NPDES consequences. Contact your storm water regulatory agency for additional details and compliance requirements.

Submit the completed Certificate of Compliance (CofC) provided, to this Division within 30 days of receipt of this report.

Contact Gheorghe Man if necessary at gman@sbcfire.org or 909.386.8401 regarding this report.

☒ NOTICE OF VIOLATION: THE VIOLATIONS NOTED ABOVE MUST BE CORRECTED WITHIN 30 DAYS. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.

Inspected By: _____ (Sign Name) GHEORGHE MAN (Print Name)

Received By: CERTIFIED MAIL (Sign Name) N/A (Print Name)

Title: N/A

Report Date: 9.19.2011

Form Revised 1/16/2007

PHOTO NARRATIVE

PHOTO 1

Facility/Case Name: **Full-Circle, Inc.** Facility ID #: **FA-9441**

Address: **4831 Newton Rd., Redlands**

1) Description: **Front of facility. Photo taken from public road. No other photographs were taken during the inspection.**

Date Taken: **9.14.2011**

Taken By: **Gheorghe Man** Signature:

Revised 10/12/2000

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PRELIMINARY FIELD INSPECTION REPORT

INSPECTION DATE: 9.14.2011

FACILITY ID	FACILITY NAME:	FACILITY LOCATION:
9441	FULL-CIRCLE, INC.	4831 NEWTON RD, YUCCA VALLEY
Consent Granted by: ☑ Inspect ☐ Photograph	NAME NORMAN BAYSINGER	TITLE MANAGER

The following is a preliminary list of violations observed at the time of inspection. The final report may list additional violations. Violations must be corrected within 30 days of receipt of the final report unless otherwise specified below.

AN INSPECTION WAS CONDUCTED ON 9.14.2011 TO DETERMINE COMPLIANCE WITH HAZARDOUS MATERIALS AND HAZARDOUS WASTE LAWS AND REGULATIONS.

NO PHOTOGRAPHS WERE TAKEN EXCEPT FOR FRONT OF FACILITY FROM PUBLIC ROAD.

CORRECT THE FOLLOWING VIOLATION WITHIN 30 DAYS OF RECEIPT OF FINAL REPORT:

① FAILURE TO UPDATE BUSINESS EMERGENCY/CONTINGENCY PLAN - CHSC 25505. THE MOST RECENT BUSINESS PLAN ON FILE IS DATED 2005. THE BUSINESS PLAN MUST BE UPDATED AS REQUIRED AND/OR RECERTIFIED ANNUALLY BY MARCH 1.
*COMPLIANCE REQUIREMENT: SUBMIT A FULL BUSINESS PLAN TO THIS DEPT. WITHIN 30 DAYS OF RECEIPT OF FINAL REPORT.

A FINAL REPORT WILL BE PROVIDED WITHIN 65 DAYS. THE FINAL REPORT MAY CONTAIN ADDITIONAL VIOLATIONS.

CONTACT GEORGE MAN IF NECESSARY @ 9093868401 REGARDING THIS REPORT.

Inspected By: _____ Sign Name
GEORGE MAN Print Name

Received By: X Norman Baysinger Sign Name
X NORMAN BAYSINGER Print Name

Title: X LEAD

Report Date: 9.14.2011

HAZARDOUS MATERIAL FIELD SERVICES
COMPUTER DATABASE UPDATE AUTHORIZATION (5050 Form)

UPDATE

☐ Quick Submit-Correct minor information without full verification.

UPDATE INVOICE MAILING CODE: (CIRCLE ONE) (O) F A

CURRENT INVOICE MAILING CODE: O

OWNER INFORMATION

OWNER ID: OW0007952

Legal Owner

*NAME: SMITH CONNECTORS, INC.

*ADDRESS 1: 1299 LAWRENCE DR ADDRESS 2:

*CITY: NEWBURY PARK *STATE: CA *ZIP CODE: 91320 *COUNTRY: USA

*PHONE: 805-498-2589 EXT: FAX:

ALT PHONE: EXT: FYI LAST UPDATED: 06/10/2010

OWNER MAILING ADDRESS

☐ Same as Owner

CARE OF: ~~WALTER SMITH~~ KARIN BOLYARD DBA: FULL CIRCLE, INC.

ADDRESS1: ~~1299 LAWRENCE DRIVE~~ P.O. BOX 276 ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: ~~91320~~ 91319 COUNTRY: USA

FACILITY INFORMATION

FACILITY ID: FA0009441

*NAME: FULL-CIRCLE, INC. CERS ID: 10049953

*ADDRESS 1: 4831 NEWTON RD ADDRESS 2:

*CITY: YUCCA VALLEY *STATE: CA *ZIP CODE: 92284 *CITY CODE: YUCCA VALLEY

*PHONE: 760-369-1234 EXT: ALT PHONE: EXT: FAX: 805-499-2867

CENSUS: MILITARY SCHOOL MEDICAL *SUPERVISORIAL DISTRICT: 003 *INSPECTION DISTRICT: 12 NUMBER OF EMP.: 6

FIRE JURISDICTION: SAN BDNO CO. FIRE SIC CODE:

*BUSINESS CODE: *BUSINESS TYPE: FYI LAST UPDATED: 08/10/2011

FACILITY MAILING ADDRESS

☐ Same as Facility ☐ Same as Owner Mailing Address

BUSINESS NAME: FULL-CIRCLE INC.

CARE OF: WALTER SMITH

ADDRESS 1: PO BOX 276 ADDRESS 2:

CITY: NEWBURY PARK STATE: ZIP CODE: 91319 COUNTRY: USA

*EMAIL: FULLCIRC@AOL.COM ☐ NO EMAIL (insert comment 3899 with "NO EMAIL-Inspector Name)

A/R INFORMATION

ACCOUNT ID: AR0010050

☐ Same as Owner Mailing Address ☐ Same as Facility Mailing Address

RESPONSIBLE PARTY: WALTER SMITH

CARE OF: SMITH CONNECTORS, INC.

ADDRESS 1: 1299 LAWRENCE DR ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91320 COUNTRY: USA

PHONE: 805-498-2589 EXT: ALT PHONE: EXT:

ALT PHONE 2: EXT: FYI EXEMPT FROM BILLING: NO FYI LAST UPDATED: 09/06/2011

FYI ANNIVERSARY DATE: 01/31/2005 FYI ACCOUNT STATUS: ACTIVE ACCOUNT FYI TOTAL DUE: 0.00

Business Code= 01-Corporation, 02-Individual, 03-Partnership, 04-Local Agency/District, 05-County Agency, 06-State Agency, 07-Federal Agency
Business Type=01-Gas Station, 02-Distributor, 03-Farm, 04-Processor, 05-Commercial, 06-Other

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected to complete all fields on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

PERMIT INFORMATION (CIRCLE THOSE THAT APPLY)

☒ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016132	~~ACTIVE~~	~~4210~~-SPECIAL HANDLER	02/01/2011	01/31/2012
	PERMIT NUMBER	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE
			PR0014567	ACTIVE, BILLABLE	4221
			GHP OR UST ID	CURRENT STATUS(BILLING)	UPDATED P.E.
☐ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016131	ACTIVE	4420-SPECIAL GENERATOR(B)	02/01/2011	01/31/2012
	PERMIT NUMBER	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE
			PR0014566	ACTIVE, BILLABLE	
			GHP OR UST ID	CURRENT STATUS(BILLING)	UPDATED P.E.

ADD NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.
	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.

NUMBER OF ACTIVE UST'S 0

Is this an operating facility that does not require permits (keep AR active and add 0202 GHP record)? Yes (No)
Should this facility be inactivated upon verification that there is no balance due? Yes (No)
s this a new owner (a blue book comment is required if Q is yes and there is not a request for demand bill)? Yes (No)
Does this 5050 have attached documents? Yes (No)

*DATE SUBMITTED: 9.19.2011 DATE ENTERED: _____ FISCAL ENTRY DATE/ INITIAL: _____

*SUBMITTED BY: G.MAN ENTERED BY: _____ ***Demand bill for updated PEs**: Yes (No)

SPECIAL INSTRUCTIONS: Information in this location will not be entered into Envision.

COMMENTS/REMARKS: Only text in this area will be entered as a blue book comment. Please attach and label additional sheets needed for comments.

PER INSPECTION OF 9.14.2011, THIS FACILITY DOES NOT QUALIFY FOR A SPECIAL HANDLER PERMIT. 499-GAL PROPANE ON SITE, COMPRESSED GASES OVER 500-FT^3 AND OTHER NON-AUTOMOTIVE MATERIALS ON SITE. PLEASE UPDATE PE 4210 → 4221.

THANKS,

(JM) 9.19.2011.

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected to complete all fields on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

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CERTIFICATE OF COMPLIANCE

Return Certification within 30 **Days of Receipt to Inspector** GHEORGHE MAN

In the Matter of Respondent: **MR. NORMAN BAYSINGER**

Violation(s) cited on: **9.14.2011** *FA #:* **9441**

Facility Name: **FULL-CIRCLE, INC.**

Site Address: **4831 NEWTON RD., YUCCA VALLEY**

Certificate of Compliance Date: **9.19.2011**

I certify under penalty of law that:

- *Respondent has corrected the violations specified in the above-entitled action.*
- *I have personally examined any documentation attached to this certification to establish that the violations have been corrected.*
- *Based on my examination of the attached documentation and inquiry of the individuals, who prepared or obtained them, I believe the information to be true, accurate and complete.*
- *I am authorized to file this certification on behalf of the Respondent.*
- *I am aware there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.*

X _____ *Signature*

X _____ *Date*

X _____ *Printed or Typed Name*

X _____ *Title*

Attach the following documentation when returning the Certificate of Compliance:

1. **Original AND one copy of Business Emergency/Contingency Plan (203).**
2. **Signed statement as required by violation 136.**

Form Revised 1/16/2007

DISTRIBUTION: White – CUPA File Yellow – Facility Pink – CUPA Inspector

SAN BERNARDINO COUNTY FIRE DEPARTMENT

Facility File

SOURCE - FACILITY RELEASE REPORT

SITE LOCATION: **4831 NEWTON RD YUCCA VALLEY**
RELATED ID:

RECORD ID: **CO0028683**
ACCOUNT ID: **AR0010050**

FACILITY INFO

FACILITY: **FA0009441**
FACILITY NAME: **FULL-CIRCLE, INC.**
FACILITY ADDRESS: **4831 NEWTON RD**
CITY: **YUCCA VALLEY** STATE: **CA** ZIP: **92284**

CONTACT

COMPLAINT

COMPLAINANT: **ANONYMOUS**
ADDRESS:
CITY:
COUNTRY: **USA** STATE: ZIP:
WORK PHONE: [redacted] EXT:
HOME PHONE: EXT:
FAX:
EMAIL ADDRESS:

DISPOSITION

RECEIVED BY: **CARLEEN WILEY**
RECEIVED DATE: **08/10/2011** RECEIVED TIME: **13:41:00**
ASSIGNED TO: **GHEORGHE MAN**
ASSIGNED DATE: **08/10/2011** ASSIGNED TIME: **16:02:34**
STATUS: **CLOSED**
PROGRAM ELEMENT:

INFORMATION

PROPERTY INFO

PROP NAME: **FULL-CIRCLE, INC.**
BUS NAME: **FULL-CIRCLE INC.**
ADDRESS: **4831 NEWTON RD**
2nd ADDRESS:
CITY: **YUCCA VALLEY** STATE: **CA** ZIP: **92284**
COUNTRY:
PHONE 1: **760-369-1234** EXT:

OWNER'S INFO

OWNER NAME: **SMITH CONNECTORS, INC.**
BUSINESS NAME:
ADDRESS: **1299 LAWRENCE DR**
2ND ADDRESS:
CITY: **NEWBURY PARK** STATE: **CA** ZIP: **91320**
HOME PHONE: **805-498-2589** EXT:
WORK PHONE: EXT:

LOCATION

LOCATION

CENSUS: JURISDICTION:
DISTRICT: PROPERTY TYPE:
LOCATION: INSPECTION CODE:
CITY CODE: APN:

ER INFO (UDF)

OES NUMBER: **11-4756** HOURS:
INCIDENT TYPE: **DISPOSAL HAZ WASTE/RELEASED**
ENVIRONMENT TYPE: **FACILITY SITE**
REFERRAL AGENCY: REFERRAL DATE:
HAULER'S NAME:
NUMBER HOSPITALIZED:
CHEMICAL INFO 1: **MACHINE COOLANT - UNKNOWN AMOUNT**
AGENCY NOTIFICATION: **Y**
DRUG LAB:
E/R TEAM RESPONDED:
SUSPECT

RESPONDING AGENCY 1:
RESPONDING AGENCY 2:
RESPONDER 1:
RESPONDER 2:
RESPONDER 3:
RESPONDER 4:
CHEMICAL INFO:
RELEASED ☐ CONTAINED ☐ REMOVED ☐
COST RECOVERY:

PARTY NAME: DOB:
COMPANY NAME: PHONE: EXT:
ADDRESS: LICENSE NUMBER:

INSPECTED/RESOLVED

EMPLOYEE: RESOLVE DATE: **08/10/2011** REQUIRES FURTHER ACTION ☑

PERMIT INFORMATION

PERMITS CURRENT? YES or NO

RECORD ID	PE	PERMIT STATUS	INCE STATUS	FROM DATE	TO DATE
PT0016131	SPECIAL GENERATOR(B)	ACTIVE			
PT0016132	SPECIAL HANDLER	ACTIVE			

COMPLAINT DESCRIPTION: CALLER STATES THAT THERE WAS A RELEASE OF AN UNKNOWN AMOUNT OF MACHINE COOLANT FROM SEVERAL MACHINES THAT HAD BEEN CLEANED OUT ONTO LAND.

PER INSPECTION OF 9.14.2011, MACHINE FLUID ARE DISPOSED OF THROUGH LICENSED HAULER - RECEIPT WERE AVAILABLE. NO EVIDENCE OF A RELEASE. A STAIN/WET SPOT OBSERVED ON PAVEMENT SLOPING TO DIRT AREA. OPERATOR STATED THAT ~~THAT IS~~ THIS AREA IS USED FOR MOP BUCKET RINSING AND THE STAINING IS RUST FROM THE METAL CHIPS. OPERATOR ADVISED OF POSSIBLE ISSUES ASSOCIATED WITH STORMWATER RUNOFF/NPDES. NO VIOLATIONS CITED. PLEASE CLOSE OUT THIS COMPLAINT.

D. Mc

9.19.2011

FA 9441
CI0028283

California Emergency Management Agency
Hazardous Materials Spill Report

DATE: 08/10/2011 TIME: 1341	RECEIVED BY: Cal EMA - Patti Tran OSPR -	CONTROL#: Cal EMA - 11-4756 NRC - 985553

1.a. PERSON NOTIFYING Cal EMA:

1. NAME:	2. AGENCY:	3. PHONE#:	4. Ext:	5. PAG/CELL:
XXX	NRC	[redacted]		

1.b. PERSON REPORTING SPILL (If different from above):

1. NAME:	2. AGENCY:	3. PHONE#:	4. Ext:	5. PAG/CELL:
Anonymous	XXX	XXX-XXX-XXXX		

2. SUBSTANCE TYPE:

2. a. SUBSTANCE:	b.QTY: >=<	Amount	Measure	c. TYPE:	d. OTHER:	e. VESSEL >= 300 Tons
1. Machine Coolant	=	Unknown	Unknown	CHEMICAL		○ Yes ● No
2.	=					○ Yes ● No
3.	=					○ Yes ● No

c. DESCRIPTION: Per NRC report, caller stated that there was a release of an unknown amount of machine coolant from several machines that had been cleaned out onto land

f. CONTAINED:	g. WATER INVOLVED:	h. WATERWAY:	i.DRINKING WATER IMPACTED
Unknown	No		

j. KNOWN IMPACT Unknown

3. a. INCIDENT LOCATION: 4831 Newton Rd

b. CITY:	c. COUNTY:	d. ZIP:
Yucca Valley	San Bernardino County	

4. INCIDENT DESCRIPTION:

a. DATE:	b. TIME (Military):	c. SITE:	d. CAUSE
08/09/2011	0800	Industrial Plant	Unknown
e. INJURIES	f. FATALITY	g. EVACUATION	h. CLEANUP BY:
○ Yes ● No	○ Yes ● No	○ Yes ● No	Unknown

5. SUSPECTED RESPONSIBLE PARTY:

a. NAME:	b. AGENCY:	c. PHONE#:	d. EXT.:
Norman	Full Circle	760-369-1234	
e. MAIL ADDRESS:	f. CITY:	g. STATE:	h. ZIP:
4831 Newton Rd	Yucca Valley	CA	

6. NOTIFICATION INFORMATION:

a. ON SCENE: b. OTHER ON SCENE: c. OTHER NOTIFIED:

d. ADMIN. AGENCY: San Bernardino County Health Department e. SEC. AGENCY:

f. ADDITIONAL COUNTY: g. ADMIN. AGENCY:

h. NOTIFICATION LIST:

DOG Unit: RWQCB Unit:

☒ [illegible]	☐ AIR RESOURCES BD	☐ EPA	☐ CAL EMA HAZMAT UNIT	☐ SFM	☐ OTHER
☒ [illegible]	☐ CALTRANS	☐ [illegible]	☐ CAL EMA FLARE UNIT	☐ USFWS	☐ [illegible]
☒ [illegible]	☐ DOF	☐ [illegible]	☐ CAL EMA REG	☐ USCG	
☒ [illegible]	☐ [illegible]	☐ [illegible]	☐ [illegible]	☐ [illegible]	
☒ [illegible]	☐ [illegible]	☐ [illegible]	☐ [illegible]	☐ [illegible]	
☒ [illegible]	☐ [illegible]	☐ [illegible]	☐ [illegible]	☐ [illegible]	

CONFIDENTIAL REMARKS:	

Warning.center@ops.calema.ca.gov; R9_RRC@EPA.GOV; DTSC.ER@gmail.com

dwylie@waterboards.ca.gov; HVasquez@waterboards.ca.gov; JAngel@waterboards.ca.gov; kdunn@waterboards.ca.gov; RJones@waterboards.ca.gov; RPerdue@waterboards.ca.gov

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GENERATOR AND HANDLER INSPECTION REPORT

Facility Name: Full Circle | Inspection Date: 16 Dec. '04

Street Address: 4831 Newton Road | Facility ID No: new 9441

City: Yucca Valley, CA | Zip Code: 92284 | EPA ID No: CAL000212349

Facility Contact: Don Allen Chuck Joslin | Phone: 760 369-1234 | # of Employees: 10 | Packet left on site? (Yes)/No

Refer to Title 19 and Title 22 of the California Code of Regulations (CCR), Chapter 6.5 and 6.95 of the California Health and Safety Code (CHSC) and Division 3 of Title 2 of the San Bernardino County Code (CC)

THE FOLLOWING SECTIONS ARE IN VIOLATION IF THEY ARE CHECKED

General Requirements:

☑ (101)/(201) Hazardous Waste and/or Materials Permits not current. (CC 23.0602(a)) paid 2/15/05
Compliance requirement: Submit fees within 30 days of billing.

☐ 104. EPA ID Number not obtained for waste generation. (CCR 66262.12(a))
Compliance Requirement: Obtain permanent EPA ID Number by submitting Form 1358 to DTSC. Submit your EPA ID Number to this Division.

☐ 106. Facility not operated to prevent a spill or release. (CCR 66265.31)
Compliance Requirement: Facility must conduct housekeeping and operate to prevent all spills. Signature on certification denotes compliance.

☑ (107) A Contingency Plan has not been established. (CCR 66265.51(a)) 1/10/05

☑ (202) A Business Plan has not been established. (CHSC 25503.5)

☑ (203) A Business Plan has not been submitted / updated. (CHSC 25505)

INVENTORY: 1 282 cuft cylinder oxygen
One 116 cuft. cylinder acetylene
Eight 250 cuft. cylinders CO_2
2 55 gal drums lapping oil (vegtable)
1 55 gal drum trimsol. 5 55 gal drums lub oil.

Compliance Requirement: Submit the original and one copy of the Business Emergency/Contingency Plan to this Division. NOTE: You must keep a current copy of your Business Emergency/Contingency Plan onsite and available at all times.

☐ 131. Training documentation not complete or available. (CCR 66262.34(d)(2))
Compliance Requirement: Submit training documentation as required.

Container Storage and Labeling Requirements:

OK ☑ (110) Hazardous waste containers are not labeled. (CCR 66262.34(f)(3)) Corrected during inspection

OK ☑ (111) Hazardous waste label is incomplete. (CCR 66262.34(f)(3))

OK ☑ (112) Accumulation start date is missing from label. (CCR 66262.34(f)(2))
Compliance Requirement: Hazardous waste label is to be applied to the container. All fields and lines are to be correctly completed.

☑ (113) Accumulation time exceeded. (CCR 66262.34)
Compliance Requirement: Dispose of waste using a licensed waste hauler within 30 days. Submit copies of disposal documents to this Division.

☐ 114. Hazardous waste container not sound. (CCR 66265.171)

☐ 115. Hazardous waste container leaking. (CCR 66265.173(b))

☐ 116. Hazardous waste container open when not in use. (CCR 66265.173(a))
Compliance Requirement: Waste containers must be sound, not leaking and closed when not in use.

Waste Management:

Waste oil picked up 5/16/04 by Golden West - 250 gal.

☐ 119. Hazardous waste managed unlawfully. (CHSC 25154)
Compliance Requirement: Hazardous waste containers and aboveground tanks must be labeled, closed, and inspected (weekly or daily, as appropriate). Waste is to be removed by a licensed waste hauler within the allowed time periods.

☐ 127. Failure to retain **manifested** waste disposal records for 3 years. (CCR 66262.40(a))

☐ 137. Failure to retain **consolidated** waste disposal records for 3 years. (CHSC 25160.2(b)(3))
Compliance Requirement: Submit copies of waste disposal records for the past

☐ 138. Unlawful management of used oil filters. (CCR 66266.130)
Compliance Requirement: Label all used oil filter containers with "DRAINED USED OIL FILTERS" and the accumulation start date.

Comments: Machine shop that manufactures swivel connectors for propane + oil trucks.

Inspector: Glen T. Fleming Received by: Chuck Joslin Title: PM I

Sign and submit the yellow copy of ~~this form~~ within 30 days with the required documents listed in each "Compliance requirement" section.

I certify that I have met the compliance requirements of this Notice of Violation: _____ Name _____ Date

15-21060-638 Rev. 8/03

PHOTO NARRATIVE

PHOTO 1

PHOTO 2

Facility/Case Name:	Full Circle	Facility ID#: FA0009441
Address: 4831 Newton Road, Yucca Valley, CA 92284		
Description #1: Machine shop		
Description #2: Office		
Date Taken: 12/16/2004	Taken By: Glenn Fleming , REHS	

Signature: Glenn J. Fleming

Revised 02/27/03

PHOTO NARRATIVE

PHOTO 1

PHOTO 2

Facility/Case Name:	Full Circle	Facility ID#: FA0009441
Address: 4831 Newton Road, Yucca Valley, CA 92284		
Description #1: Inside machine shop		
Description #2: Machines		
Date Taken: 12/16/2004	Taken By: Glenn Fleming , REHS	

Signature: Glenn T. Fleming

Revised 02/27/03

PHOTO NARRATIVE

PHOTO 1

PHOTO 2

Facility/Case Name:	Full Circle	Facility ID#: FA0009441
Address: 4831 Newton Road, Yucca Valley, CA 92284		
Description #1: Drums of lubricating oils		
Description #2: Empty drums		
Date Taken: 12/16/2004	Taken By: Glenn Fleming , REHS	

Signature:

Revised 02/27/03

PHOTO NARRATIVE

PHOTO 1

PHOTO 2

Facility/Case Name:	Full Circle	Facility ID#: FA0009441
Address: 4831 Newton Road, Yucca Valley, CA 92284		
Description #1: Drums of waste vegetable lapping oil		
Description #2: Waste soluble oil AST (label applied following inspection). Drums are waste lapping oil.		
Date Taken: 12/16/2004	Taken By: Glenn Fleming , REHS	

Signature: Glenn Fleming

Revised 02/27/03

SAN BERNARDINO COUNTY CUPA
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

EP: AP:2 AR:0.00

KARIN BOLYARD
KARIN BOLYARD
P.O. BOX 276
NEWBURY PARK, CA 91319

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2015 **Expiration Date: 1/31/2016**

CUPA Facility Type: 5012-CUPA ANNUAL ADMIN PERMIT PROGRAM FEE-LEVEL 2

Permit Number	Program Element	Related ID
PT0016132	4243 HAZARDOUS MATERIALS 4-10 CHEMICALS	PR0014567
PT0016131	4453 SMALL QUANTITY GENERATOR	PR0014566

Permitted by:
San Bernardino County CUPA
620 South "E" Street
San Bernardino, CA 92415-0153
(909) 386-8401

Mike Horton, Fire Marshal

THIS PERMIT IS NOT TRANSFERABLE AND IS ISSUED CONDITIONALLY
UPON ADHERENCE TO THE REQUIREMENTS LISTED ON THE BACK OF THIS PERMIT.
THIS FORM MUST BE DISPLAYED CONSPICUOUSLY ON THE PREMISES.

T #:PERM Printed on: 9:26:05AM 1/6/2015

CUPA PERMIT CONDITIONS

As a condition of the Certified Unified Program Agency (CUPA) permit to operate, the owner, operator, and permit holder shall comply with the following:

a. **Hazardous Materials Release Response Plans and Inventories Program (HMRRP):** California Health and Safety Code (CHSC) Division 20, Chapter 6.95, Article 1 and Title 19 California Code of Regulations (CCR).

b. **California Accidental Release Prevention Program (CalARP):** CHSC Division 20, Chapter 6.95, Article 2 and Title 19 CCR.

c. **Underground Storage Tanks (USTs):** CHSC Division 20, Chapters 6.5, 6.7 and Title 23 CCR, Chapter 16.

   (1) Monitoring, Response and Plot Plans shall be approved by the San Bernardino County CUPA.

   (2) The owner and operator are subject to all applicable requirements of Chapter 6.7 of the CHSC and the applicable regulations.

   (3) This permit and permit conditions including the Monitoring, Response and Plot Plans shall be maintained on site.

   (4) Monitoring or programming for monitoring shall be conducted at the locations of the following UST equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas (e.g. double-walled piping); mechanical or electronic line leak detectors; and in-tank liquid level probes used for leak detection.
   Note: The UST ID Number is listed on the front of the permit for each UST

d. **Aboveground Petroleum Storage Act SPCC Plans:** CHSC Division 20, Chapter 6.67 and 40 CFR 112.

e. **Hazardous Waste Generator and Hazardous Waste Onsite Treatment:** CHSC Division 20, Chapter 6.5 and Title 22 CCR, Division 4.5, Chapters 10, 11, 12, 20 and 31.

f. **San Bernardino County Fire Protection District Fire Code (SBCFPD FC), Hazardous Materials Management Plans and Inventories:** CHSC Division 12, Part2, Chapter 1,Article 2, Section 13143.9, CHSC Division 20, Chapter 6.95, Article 1, Section 25504, **SBCFPD FC** Chapter 4 Section 407.5, Section 407.6, Chapter 50, Section 5001.5.1 and Section 5001.5.2.

g. **Unified Program Forms and Electronic Reporting:** CHSC Division 20, Chapter 6.11, Section 25404(e)(4) and Title 27 CCR.

SAN BERNARDINO COUNTY CUPA
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

EP: AP:3 AR:0.00

SMITH CONNECTORS, INC.
FULL-CIRCLE, INC.
1299 LAWRENCE DR
NEWBURY PARK, CA 91320

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2014 **Expiration Date: 1/31/2015**

Permit Number	Program Element	Related ID
PT0016132	4243 HAZARDOUS MATERIALS 4-10 CHEMICALS	PR0014567
PT0016131	4454 LARGE QUANTITY GENERATOR	PR0014566
PT0031236	5012 CUPA ANNUAL ADMIN PERMIT PROGRAM FEE-LEVEL 2	PR0040122

Permitted by:
San Bernardino County CUPA
620 South "E" Street
San Bernardino, CA 92415-0153
(909) 386-8401

Mike Horton, Fire Marshal

THIS PERMIT IS NOT TRANSFERABLE AND IS ISSUED CONDITIONALLY UPON ADHERENCE TO THE REQUIREMENTS LISTED ON THE BACK OF THIS PERMIT. THIS FORM MUST BE DISPLAYED CONSPICUOUSLY ON THE PREMISES.

CUPA PERMIT CONDITIONS

As a condition of the Certified Unified Program Agency (CUPA) permit to operate, the owner, operator, and permit holder shall comply with the following:

a. **Hazardous Materials Release Response Plans and Inventories Program (HMRRP):** California Health and Safety Code (CHSC) Division 20, Chapter 6.95, Article 1 and Title 19 California Code of Regulations (CCR).

b. **California Accidental Release Prevention Program (CalARP):** CHSC Division 20, Chapter 6.95, Article 2 and Title 19 CCR.

c. **Underground Storage Tanks (USTs):** CHSC Division 20, Chapters 6.5, 6.7 and Title 23 CCR, Chapter 16.

   (1) Monitoring, Response and Plot Plans shall be approved by the San Bernardino County CUPA.

   (2) The owner and operator are subject to all applicable requirements of Chapter 6.7 of the CHSC and the applicable regulations.

   (3) This permit and permit conditions including the Monitoring, Response and Plot Plans shall be maintained on site.

   (4) Monitoring or programming for monitoring shall be conducted at the locations of the following UST equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas (e.g. double-walled piping); mechanical or electronic line leak detectors; and in-tank liquid level probes used for leak detection.
   Note: The UST ID Number is listed on the front of the permit for each UST.

d. **Aboveground Petroleum Storage Act SPCC Plans:** CHSC Division 20, Chapter 6.67 and 40 CFR 112.

e. **Hazardous Waste Generator and Hazardous Waste Onsite Treatment:** CHSC Division 20, Chapter 6.5 and Title 22 CCR, Division 4.5, Chapters 10, 11, 12, 20 and 31.

f. **San Bernardino County Fire Protection District Code (SBCFPD FC), Hazardous Materials Management Plans and Inventories:** CHSC Division 12, Part 2, Chapter 1, Article 2, Section 13143.9, CHSC Division 20, Chapter 6.95, Article 1, Section 25504, **SBCFPD FC** Chapter 4, Section 407.5, Section 407.6, Chapter 50, Section 5001.5.1 and Section 5001.5.2.

g. **Unified Program Forms and Electronic Reporting:** CHSC Division 20, Chapter 6.11, Section 25404(e)(4) and Title 27 CCR.

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

EP: AP:2 AR:0.00

ATTN : KARIN BOLYARD
SMITH, WALTER
PO BOX 276
NEWBURY PARK, CA 91319

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2013 **Expiration Date: 1/31/2014**

Permit Number	Program Element	Related ID
PT0016132	4221 HAZMAT HANDLER 0-10 EMPLOYEES	PR0014567
PT0016131	4420 SPECIAL GENERATOR	PR0014566

Permitted by:
San Bernardino County Fire Protection District
Hazardous Materials Division
620 South "E" Street
San Bernardino, CA 92415-0153
(909) 386-8401

Mark A. Hartwig, Fire Chief

THIS PERMIT IS NOT TRANSFERABLE AND IS ISSUED CONDITIONALLY UPON ADHERENCE TO THE REQUIREMENTS LISTED ON THE BACK OF THIS PERMIT. THIS FORM MUST BE DISPLAYED CONSPICUOUSLY ON THE PREMISES.

PERMIT CONDITIONS

As a condition of the permit to operate, the owner, operator, and permit holder shall comply with the following:

a. **Hazardous Materials Release Response Plans and Inventories Program (HMRRP):** California Health and Safety Code (CHSC) Division 20, Chapter 6.95, Article 1 and Title 19 California Code of Regulations (CCR).

b. **California Accidental Release Prevention Program (CalARP):** CHSC Division 20, Chapter 6.95, Article 2 and Title 19 CCR.

c. **Underground Storage Tanks (USTs):** CHSC Division 20, Chapters 6.5, 6.7, 6.75, and Title 23 CCR, Chapters 16 & 18.

   (1) Monitoring, Response and Plot Plans shall be approved by the San Bernardino County CUPA.

   (2) The owner and operator are subject to all applicable requirements of Chapter 6.7 and 6.75 of the CHSC and the applicable regulations.

   (3) This permit and permit conditions including the Monitoring, Response and Plot Plans shall be maintained on site.

   (4) Monitoring or programming for monitoring shall be conducted at the locations of the following UST equipment, if installed: monitoring system control panels; sensors monitoring tank annular spaces, sumps, dispenser pans, spill containers, or other secondary containment areas (e.g. double-walled piping); mechanical or electronic line leak detectors; and in-tank liquid level probes used for leak detection.
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d. **Aboveground Petroleum Storage Act SPCC Plans:** CHSC Division 20, Chapter 6.67 and 40 CFR 112.

e. **Hazardous Waste Generator and Hazardous Waste Onsite Treatment:** CHSC Division 20, Chapter 6.5 and Title 22 CCR, Division 4.5, Chapters 10, 11, 12, 20 and 31.

f. **Uniform Fire Code, Hazardous Materials Management Plans and Inventories:** CHSC Division 12, Part 2, Chapter 1, Article 2, Section 13143.9, CHSC Division 20, Chapter 6.95, Article 1, Section 25509.2, California Fire Code Chapter 27, Section 2701.5.1 and Section 2701.5.2, formerly referred to as UFC Section 80.103.

g. **Unified Program Forms and Electronic Reporting:** CHSC Division 20, Chapter 6.11, Section 25404(e)(4) and Title 27 CCR.

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

AP:2 AR:0.00

ATTN : KARIN BOLYARD
SMITH, WALTER
PO BOX 276
NEWBURY PARK, CA 91319

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2012 **Expiration Date: 1/31/2013**

Permit Number	Program Element	Related ID
PT0016132	4221 HAZMAT HANDLER 0-10 EMPLOYEES	PR0014567
PT0016131	4420 SPECIAL GENERATOR	PR0014566

Mark A. Hartwig, Fire Chief

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PERMIT CONDITIONS

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e. **Hazardous Waste Generator and Hazardous Waste Onsite Treatment:** CHSC Division 20, Chapter 6.5 and Title 22 CCR, Division 4.5, Chapters 10, 11, 12, 20 and 31.

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g. **Unified Program Forms and Electronic Reporting:** CHSC Division 20, Chapter 6.11, Section 25404(e)(4) and Title 27 CCR.

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

AP:2 AR:0.00

ATTN : WALTER SMITH
FULL-CIRCLE, INC.
PO BOX 276

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2011 **Expiration Date: 1/31/2012**

Permit Number	Program Element	Related ID
PT0016131	4420 SPECIAL GENERATOR(B)	PR0014566
PT0016132	4210 SPECIAL HANDLER	PR0014567

Danny R. Wurl

Dan Wurl, Fire Chief

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PERMIT CONDITIONS

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   (1) Monitoring, Response and Plot Plans shall be approved by the San Bernardino County CUPA.

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e. **Hazardous Waste Generator and Hazardous Waste Onsite Treatment:** CHSC Division 20, Chapter 6.5 and Title 22 CCR, Division 4.5, Chapters 10, 11, 12, 20 and 31.

f. **Uniform Fire Code, Hazardous Materials Management Plans and Inventories:** CHSC Division 12, Part 2, Chapter 1, Article 2, Section 13143.9, CHSC Division 20, Chapter 6.95, Article 1, Section 25509.2, California Fire Code Chapter 27, Section 2701.5.1 and Section 2701.5.2, formerly referred to as UFC Section 80.103.

g. **Unified Program Forms and Electronic Reporting:** CHSC Division 20, Chapter 6.11, Section 25404(e)(4) and Title 27 CCR.

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

AP:2 AR:0.00

ATTN : WALTER SMITH
FULL-CIRCLE, INC.
PO BOX 276

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2010 **Expiration Date: 1/31/2011**

Permit Number	Program Element	Related ID
PT0016132	4210 SPECIAL HANDLER	PR0014567
PT0016131	4420 SPECIAL GENERATOR(B)	PR0014566

Pat A. Dennen, Fire Chief/Fire Warden

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UPON ADHERENCE TO THE REQUIREMENTS LISTED ON THE BACK OF THIS PERMIT.
THIS FORM MUST BE DISPLAYED CONSPICUOUSLY ON THE PREMISES.

0153

SAN BERNARDINO COUNTY FIRE PROTECTION DISTRICT
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

AP:2 AR:0.00

ATTN : WALTER SMITH
FULL-CIRCLE, INC.
PO BOX 276

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2010 **Expiration Date: 1/31/2011**

Permit Number	Program Element	Related ID
PT0016132	4210 SPECIAL HANDLER	PR0014567
PT0016131	4420 SPECIAL GENERATOR(B)	PR0014566

Pat A. Dennen, Fire Chief/Fire Warden

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THIS FORM MUST BE DISPLAYED CONSPICUOUSLY ON THE PREMISES.

PERMIT CONDITIONS

In order to maintain the operating permit, the permit holder must comply with the following:

a. **Hazardous Materials Release Response Plans and Inventories Program (HMRRP)**: California Health and Safety Code (CHSC) Division 20, Chapter 6.95, Article 1 and Title 19 California Code of Regulations (CCR).

b. **California Accidental Release Prevention Program (CalARP):** CHSC Division 20, Chapter 6.95, Article 2 and Title 19 CCR.

c. **Underground Storage Tanks (USTs):** CHSC Division 20, Chapters 6.5 & 6.7 and Title 23 CCR, Chapters 16 & 18.

   (1) Monitoring, Response and Plot Plans shall be approved by the San Bernardino County CUPA.
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   (4) The UST ID Number (is listed on the front of the permit) for each UST.

d. **Aboveground Petroleum Storage Act SPCC Plans**: CHSC Division 20, Chapter 6.67 and 40 CFR 112.

e. **Hazardous Waste Generator and Hazardous Waste Onsite Treatment**: CHSC Division 20, Chapter 6.5 and Title 22 CCR, Division 4.5, Chapters 10, 11, 12, 20 and 31.

f. **Uniform Fire Code, Hazardous Materials Management Plans and Inventories**: CHSC Division 12, Part 2, Chapter 1, Article 2, §13143.9 and UFC §80.103.

COUNTY OF SAN BERNARDINO
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

AP:2 AR:0.00

ATTN : WALTER SMITH
FULL-CIRCLE, INC.
PO BOX 276
NEWBERRY PARK, CA 91319

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2009 **Expiration Date: 1/31/2010**

Permit Number	Program Element	Related ID
PT0016131	4420 SPECIAL GENERATOR(B)	PR0014566
PT0016132	4210 SPECIAL HANDLER	PR0014567

Pat A. Dennen, Fire Chief/Fire Warden

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COUNTY OF SAN BERNARDINO
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

ATTN : WALTER SMITH
FULL-CIRCLE, INC.
PO BOX 276
NEWBERRY PARK, CA 91319

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2007 Expiration Date: 1/31/2008

Permit Number	Program Element	Related ID
PT0016132	4210 SPECIAL HANDLER	PR0014567
PT0016131	4420 SPECIAL GENERATOR(B)	PR0014566

Pat A. Dennen, Fire Chief/Fire Warden

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COUNTY OF SAN BERNARDINO
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

ATTN : WALTER SMITH
FULL-CIRCLE, INC.
PO BOX 276
NEWBERRY PARK, CA 91319

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2006 **Expiration Date: 1/31/2007**

Permit Number	Program Element	Related ID
PT0016132	4210 SPECIAL HANDLER	PR0014567
PT0016131	4420 SPECIAL GENERATOR(B)	PR0014566

Peter R. Hills

Peter R. Hills, Fire Chief/Fire Warden

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UPON ADHERENCE TO THE REQUIREMENTS LISTED ON THE BACK OF THIS PERMIT.
THIS FORM MUST BE DISPLAYED CONSPICUOUSLY ON THE PREMISES.

12-20962-638 Rev. 8/02

COUNTY OF SAN BERNARDINO
CERTIFIED UNIFIED PROGRAM AGENCY
ANNUAL PERMIT

ATTN : CHUCK JOSLIN
FULL-CIRCLE, INC.
PO BOX 276
NEWBERRY SPRINGS, CA 91319

This Unified Permit is hereby issued to:
FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Permit is issued to Facility: FA0009441 for a period not to exceed one year from effective date.

Effective Date: 2/1/2005 Expiration Date: 1/31/2006

Permit Number	Program Element	Related ID
PT0016131	4420 SPECIAL GENERATOR(B)	PR0014566
PT0016132	4210 SPECIAL HANDLER	PR0014567

Peter R. Hills

Peter R. Hills, Fire Chief/Fire Warden

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PERMIT CONDITIONS

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a. **Hazardous Materials Release Response Plans and Inventories Program (HMRRP)**: California Health and Safety Code (CHSC) Division 20, Chapter 6.95, Article 1 and Title 19 California Code of Regulations (CCR).

b. **California Accidental Release Prevention Program (CalARP):** CHSC Division 20, Chapter 6.95, Article 2 and Title 19 CCR.

c. **Underground Storage Tanks (USTs):** CHSC Division 20, Chapters 6.5 & 6.7 and Title 23 CCR, Chapters 16 & 18.

   (1) Monitoring, Response and Plot Plans shall be approved by the San Bernardino County CUPA.
   (2) The owner and operator are subject to all applicable requirements of Chapter 6.7 and 6.75 of the CHSC and the applicable regulations.
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d. **Aboveground Petroleum Storage Act SPCC Plans**: CHSC Division 20, Chapter 6.67 and 40 CFR 112.

e. **Hazardous Waste Generator and Hazardous Waste Onsite Treatment**: CHSC Division 20, Chapter 6.5 and Title 22 CCR, Division 4.5, Chapters 10, 11, 12, 20 and 31.

f. **Uniform Fire Code Hazardous Materials Management Plans and Inventories**: CHSC Division 13, Chapter 4 and Title 24 CCR §80.103

Fiscal

HAZARDOUS MATERIAL FIELD SERVICES
COMPUTER DATABASE UPDATE AUTHORIZATION (5050 Form)

☐ Quick Submit-Correct minor information without full verification.

PE update Completed

CURRENT INVOICE MAILING CODE: A

O- OWNER INFORMATION — OWNER ID: OW0007952

Legal Owner

*NAME: SMITH, WALTER

*ADDRESS 1: PO BOX 276 ADDRESS 2:

*CITY: NEWBURY PARK *STATE: CA *ZIP CODE: 91319 *COUNTRY: USA

*PHONE: 805-498-2589 EXT: FAX:

ALT PHONE: EXT: FYI LAST UPDATED: 10/21/2011

OWNER MAILING ADDRESS

☐ Same as Owner

CARE OF: KARIN BOLYARD DBA: FULL CIRCLE, INC.

ADDRESS1: PO BOX 276 ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91319 COUNTRY: USA

F- FACILITY INFORMATION — FACILITY ID: FA0009441

*NAME: FULL-CIRCLE, INC. CERS ID: 10049953

*ADDRESS 1: 4831 NEWTON RD ADDRESS 2:

*CITY: YUCCA VALLEY *STATE: CA *ZIP CODE: 92284 *CITY CODE: YUCCA VALLEY

*PHONE: 760-369-1234 EXT: ALT PHONE: 805-498-2589 EXT: FAX: 805-499-2867

CENSUS: MILITARY SCHOOL MEDICAL *SUPERVISORIAL DISTRICT: 003 *INSPECTION DISTRICT: 12 NUMBER OF EMP.: 7

FIRE JURISDICTION: SAN BDNO CO. FIRE SIC CODE:

*BUSINESS CODE: INDIVIDUAL *BUSINESS TYPE: OTHER FYI LAST UPDATED: 09/19/2014

FACILITY MAILING ADDRESS

☐ Same as Owner Mailing Address ☐ Same as Facility

BUSINESS NAME: FULL-CIRCLE INC.

CARE OF: WALTER SMITH

ADDRESS 1: PO BOX 276 ADDRESS 2:

CITY: NEWBURY PARK STATE: ZIP CODE: 91319 COUNTRY: USA

*EMAIL: FULLCIRC@AOL.COM; RUSSELL@SMITHPUMPS.COM

☐ NO EMAIL (insert comment 3899 with "NO EMAIL-Inspector Name")

A- A/R INFORMATION — ACCOUNT ID: AR0010050

☐ Same as Owner Mailing Address ☐ Same as Facility Mailing Address

RESPONSIBLE PARTY: KARIN BOLYARD

CARE OF: KARIN BOLYARD

ADDRESS 1: P.O. BOX 276 ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91319 COUNTRY: USA

PHONE: 805-498-2589 EXT: ALT PHONE: EXT:

ALT PHONE 2: EXT: FYI EXEMPT FROM BILLING: NO FYI Last Billing: 12/15/2014

FYI ANNIVERSARY DATE: 01/31/2005 FYI ACCOUNT STATUS: ACTIVE ACCOUNT FYI TOTAL DUE: 975.00

ENVIRONMENTAL CONTACT NAME: RUSSELL SMITH EMAIL: RUSSELL@SMITHPUMPS.COM

Business Code= 01-Corporation, 02-Individual, 03-Partnership, 04-Local Agency/District, 05-County Agency, 06-State Agency, 07-Federal Agency
Business Type=01-Gas Station, 02-Distributor, 03-Farm, 04-Processor, 05-Commercial, 06-Other

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected **to complete all fields** on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

PERMIT INFORMATION (CIRCLE THOSE THAT APPLY)

5012-CUPA ANNUAL ADMIN PERMIT PROGRAM FEE-LEVEL 2

	PERMIT NUMBER	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE
☐ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016132	ACTIVE	4243-HAZARDOUS MATERIALS	02/01/2014	01/31/2015
	GHP OR UST ID	CURRENT STATUS(BILLING)	UPDATED P.E.		
	PR0014567	ACTIVE, BILLABLE			
☑ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016131	ACTIVE	4454-LARGE QUANTITY GENER.	02/01/2014	01/31/2015
	GHP OR UST ID	CURRENT STATUS(BILLING)	UPDATED P.E.		
	PR0014566	ACTIVE, BILLABLE	4453		

ADD NEW P.E.

NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.
NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.

☐ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE

*NEW CUPA Admin P.E.

NUMBER OF ACTIVE UST'S 0

*Is this an operating facility that does not require permits (keep AR active and add 0202 GHP record)? Yes (No)

*Should this facility be inactivated upon verification that there is no balance due? Yes (No)

*Is this a new owner (a blue book comment is required if Q is yes and there is not a request for demand bill)? Yes (No)

*Does this 5050 have attached documents? Yes (No)

ENTERED DEC 29 2014

*DATE SUBMITTED: 12/22/2014 DATE ENTERED: FISCAL ENTRY DATE/ INITIAL: DG 12/30/14

*SUBMITTED BY: Y. Melgarejo ENTERED BY: JG *Demand bill for updated PEs: (Yes) No

SPECIAL INSTRUCTIONS: Information in this location will not be entered into Envision.

COMMENTS/REMARKS: Only text in this area will be entered as a blue book comment. Please attach and label additional sheets needed for comments.

Per inspection conducted on 12/19/2014, this facility is a small quantity generator.

- Please update PE from 4454 to 4453
- Please reverse IN0102460 and rebill for updated PE.

Completed 1/9/15 by Cheri T. & Donna Friday

Thanks!

5050 scanned and emailed to Cheri Twomey at Fiscal to reverse invoice on 12/30/14.

* Resulted in credit balance of $114.00 I emailed Yanet. She said Customer did not request refund check. Asked us to use credit to be applied to customer's next invoice.

DG

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected to complete all fields on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

PERMIT INFORMATION (CIRCLE THOSE THAT APPLY)

5012-CUPA ANNUAL ADMIN PERMIT PROGRAM FEE-LEVEL 2

	PERMIT NUMBER	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE
☐ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016132	ACTIVE	4243-HAZARDOUS MATERIALS	02/01/2014	01/31/2015
	GHP OR UST ID	CURRENT STATUS(BILLING)	UPDATED P.E.		
	PR0014567	ACTIVE, BILLABLE			
☑ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016131	ACTIVE	4454-LARGE QUANTITY GENER	02/01/2014	01/31/2015
	GHP OR UST ID	CURRENT STATUS(BILLING)	UPDATED P.E.		
	PR0014566	ACTIVE, BILLABLE	4453		

ADD NEW P.E. — NEW P.E. | NEW P.E. | NEW P.E. | NEW P.E. | NEW P.E. | NEW P.E.

NEW P.E. | NEW P.E. | NEW P.E. | NEW P.E. | NEW P.E. | NEW P.E.

☐ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE

*NEW CUPA Admin P.E.

NUMBER OF ACTIVE UST'S 0

*Is this an operating facility that does not require permits (keep AR active and add 0202 GHP record)? Yes (No)

*Should this facility be inactivated upon verification that there is no balance due? Yes (No)

*Is this a new owner (a blue book comment is required if Q15 entered and there is not a request for demand bill)? Yes (No)

*Does this 5050 have attached documents? Yes (No)

ENTERED DEC 29 2014

1-9-15 CA

*DATE SUBMITTED: 12/22/2014 DATE ENTERED: FISCAL ENTRY DATE/ INITIAL: DJ 12/30/14

*SUBMITTED BY: Y. Melgarejo ENTERED BY: JG *Demand bill for updated PEs: (Yes) No

SPECIAL INSTRUCTIONS: Information in this location will not be entered into Envision.

COMMENTS/REMARKS: Only text in this area will be entered as a blue book comment. Please attach and label additional sheets needed for comments.

Per inspection conducted on 12/19/2014, this facility is a small quantity generator.

- Please update PE from 4454 to 4453
- Please reverse IN0102460 and rebill for updated PE.

Thanks!

COMPLETED IR QC

5050 scanned and emailed to Cheri Twomey at Fiscal to reverse invoice on 12/30/14.

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected to complete all fields on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

INTEROFFICE MEMO

DATE: 1/5/2015 **PHONE:** 909-387-5902

FROM: **Cheri Twomey**
Collections Officer, Fiscal Services Division
MAIL CODE: 0451

TO: **Michael Sadsad, Fiscal Services and Collections Supervisor**

SUBJECT: **Request to APPROVE/DENY financial adjustments**

The facility listed below was incorrectly billed and/or penalized due to the following reason/s:

FA0009441 – Full-Circle, Inc.

- ☑ Incorrect permits billed prior to update to facility permit records based on inspection.
- ☐ Facility moved to another location within the County of San Bernardino prior to permit expiration.
- ☐ There was an address error in the system.
- ☐ Admin fee assessed after payment for permit fees and delinquent fees remitted.
- ☐ Business ceased operations prior to permit billing and/or permit requirement.
- ☐ Ownership change occurred prior to permit renewal.
- ☐ Other:

Michael Sadsad

Michael Sadsad

Chief Hartwig

CAO Analyst Approval _____

HAZMATERIAL FIELD SERVICES
COMPUTER DATABASE UPDATE AUTHORIZATION (5050 Form)

File

Quick Submit-Correct minor information without full verification.

OWNERSHIP UPDATE

*UPDATE INVOICE MAILING CODE: (CIRCLE ONE) O F A

CURRENT INVOICE MAILING CODE: O

O- OWNER INFORMATION

OWNER ID: OW0007952

Legal Owner

*NAME: ~~SMITH CONNECTORS, INC.~~ WALTER SMITH

*ADDRESS 1: ~~1299 LAWRENCE DR~~ P.O. Box #276 ADDRESS 2:

*CITY: NEWBURY PARK *STATE: CA *ZIP CODE: ~~91320~~ 91319 *COUNTRY: USA

*PHONE: 805-498-2589 EXT: FAX:

ALT PHONE: EXT: FYI LAST UPDATED: 09/21/2011

OWNER MAILING ADDRESS

Same as Owner

CARE OF: KARIN BOLYARD DBA: FULL CIRCLE, INC.

ADDRESS1: PO BOX 276 ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91319 COUNTRY: USA

F- FACILITY INFORMATION

FACILITY ID: FA0009441

*NAME: FULL-CIRCLE, INC. CERS ID: 10049953

*ADDRESS 1: 4831 NEWTON RD ADDRESS 2:

*CITY: YUCCA VALLEY *STATE: CA *ZIP CODE: 92284 *CITY CODE: YUCCA VALLEY

*PHONE: 760-369-1234 EXT: ALT PHONE: 805-498-2589 EXT: FAX: 805-499-2867

CENSUS: MILITARY SCHOOL MEDICAL *SUPERVISORIAL DISTRICT: 003 *INSPECTION DISTRICT: 12 NUMBER OF EMP.: 7

FIRE JURISDICTION: SAN BDNO CO. FIRE SIC CODE:

*BUSINESS CODE: 02 *BUSINESS TYPE: 06 FYI LAST UPDATED: 10/07/2011

FACILITY MAILING ADDRESS

Same as Facility

Same as Owner Mailing Address

BUSINESS NAME: FULL-CIRCLE INC.

CARE OF: WALTER SMITH

ADDRESS 1: PO BOX 276 ADDRESS 2:

CITY: NEWBURY PARK STATE: ZIP CODE: 91319 COUNTRY: USA

*EMAIL: FULLCIRC@AOL.COM; RUSSELL@SMITHPUMPS.COM NO EMAIL (insert comment 3899 with "NO EMAIL-Inspector Name)

A- A/R INFORMATION

ACCOUNT ID: AR0010050

Same as Owner Mailing Address Same as Facility Mailing Address

RESPONSIBLE PARTY: WALTER SMITH

CARE OF: SMITH CONNECTORS, INC.

ADDRESS 1: 1299 LAWRENCE DR ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91320 COUNTRY:

PHONE: 805-498-2589 EXT: ALT PHONE: EXT:

ALT PHONE 2: EXT: FYI EXEMPT FROM BILLING: NO FYI Last Billing: 12/17/2010

FYI ANNIVERSARY DATE: 01/31/2005 FYI ACCOUNT STATUS: ACTIVE ACCOUNT FYI TOTAL DUE: 0.00

Business Code= 01-Corporation, 02-Individual, 03-Partnership, 04-Local Agency/District, 05-County Agency, 06-State Agency, 07-Federal Agency
Business Type=01-Gas Station, 02-Distributor, 03-Farm, 04-Processor, 05-Commercial, 06-Other

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected **to complete all fields** on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

PERMIT INFORMATION (CIRCLE THOSE THAT APPLY)

☐ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016132	[redacted]CTIVE	4221-HAZMAT HANDLER 0-1[redacted]	02/01/2011	01/31/2012
	PERMIT NUMBER	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE
			PR0014567	ACTIVE, BILLABLE	
			GHP OR UST ID	CURRENT STATUS(BILLING)	UPDATED P.E.
☐ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016131	ACTIVE	4420-SPECIAL GENERATOR(B)	02/01/2011	01/31/2012
	PERMIT NUMBER	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE
			PR0014566	ACTIVE, BILLABLE	
			GHP OR UST ID	CURRENT STATUS(BILLING)	UPDATED P.E.

ADD NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.
	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.

NUMBER OF ACTIVE UST'S 0

*Is this an operating facility that does not require permits (keep AR active and add 0202 GHP record)? Yes (No)

*Should this facility be inactivated upon verification that there is no balance due? Yes (No)

*Is this a new owner (a blue book comment is required if Q is yes and there is not a request for demand bill)? Yes (No)

*Does this 5050 have attached documents? Yes (No)

*DATE SUBMITTED: 10.12.2011 DATE ENTERED: ENTERED OCT 21 2011 FISCAL ENTRY DATE/ INITIAL:

*SUBMITTED BY: G. MAN ENTERED BY: *Demand bill for updated PEs: Yes No

SPECIAL INSTRUCTIONS: Information in this location will not be entered into Envision.

COMMENTS/REMARKS: Only text in this area will be entered as a blue book comment. Please attach and label additional sheets needed for comments.

PER BP SUBMITTED 10.5.2011 AND TELEPHONE CONFIRMATION (RUSSELL SMITH), WALTER SMITH IS THE LEGAL OWNER

THANKS,

10.12.2011

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected to **complete all fields** on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

Update pe 4210-4221

HAZARDOUS MATERIAL FIELD SERVICES
COMPUTER DATABASE UPDATE AUTHORIZATION (5050 Form)

UPDATE

☐ Quick Submit-Correct minor information without full verification.

*UPDATE INVOICE MAILING CODE: (CIRCLE ONE) (O) F A

CURRENT INVOICE MAILING CODE: (F)

O- OWNER INFORMATION

OWNER ID: OW0007952

Legal Owner

COMPLETED

*NAME: SMITH CONNECTORS, INC.

*ADDRESS 1: 1299 LAWRENCE DR ADDRESS 2:

*CITY: NEWBURY PARK *STATE: CA *ZIP CODE: 91320 *COUNTRY: USA

*PHONE: 805-498-2589 EXT: FAX:

ALT PHONE: EXT: FYI LAST UPDATED: 06/10/2010

OWNER MAILING ADDRESS

☐ Same as Owner

CARE OF: ~~WALTER SMITH~~ KARIN BOLYARD DBA: FULL CIRCLE, INC.

ADDRESS1: ~~4299 LAWRENCE DRIVE~~ P.O. BOX 276 ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: ~~91320~~ 91319 COUNTRY: USA

F- FACILITY INFORMATION

FACILITY ID: FA0009441

*NAME: FULL-CIRCLE, INC. CERS ID: 10049953

*ADDRESS 1: 4831 NEWTON RD ADDRESS 2:

*CITY: YUCCA VALLEY *STATE: CA *ZIP CODE: 92284 *CITY CODE: YUCCA VALLEY

*PHONE: 760-369-1234 EXT: ALT PHONE: EXT: FAX: 805-499-2867

CENSUS: MILITARY SCHOOL MEDICAL *SUPERVISORIAL DISTRICT: 003 *INSPECTION DISTRICT: 12 NUMBER OF EMP.: 6

FIRE JURISDICTION: SAN BDNO CO. FIRE SIC CODE:

*BUSINESS CODE: *BUSINESS TYPE: FYI LAST UPDATED: 08/10/2011

FACILITY MAILING ADDRESS

☐ Same as Facility

☐ Same as Owner Mailing Address

BUSINESS NAME: FULL-CIRCLE INC.

CARE OF: WALTER SMITH

ADDRESS 1: PO BOX 276 ADDRESS 2:

CITY: NEWBURY PARK STATE: ZIP CODE: 91319 COUNTRY: USA

*EMAIL: FULLCIRC@AOL.COM ☐ NO EMAIL (insert comment 3899 with "NO EMAIL-Inspector Name)

A- A/R INFORMATION

ACCOUNT ID: AR0010050

RESPONSIBLE PARTY: WALTER SMITH ☐ Same as Owner Mailing Address ☐ Same as Facility Mailing Address

CARE OF: SMITH CONNECTORS, INC.

ADDRESS 1: 1299 LAWRENCE DR ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91320 COUNTRY: USA

PHONE: 805-498-2589 EXT: ALT PHONE: EXT:

ALT PHONE 2: EXT: FYI EXEMPT FROM BILLING: NO FYI LAST UPDATED: 09/06/2011

FYI ANNIVERSARY DATE: 01/31/2005 FYI ACCOUNT STATUS: ACTIVE ACCOUNT FYI TOTAL DUE: 0.00

Business Code= 01-Corporation, 02-Individual, 03-Partnership, 04-Local Agency/District, 05-County Agency, 06-State Agency, 07-Federal Agency
Business Type=01-Gas Station, 02-Distributor, 03-Farm, 04-Processor, 05-Commercial, 06-Other

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected to complete all fields on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

PERMIT INFORMATION (CIRCLE THOSE THAT APPLY)

☒ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016132 PERMIT NUMBER	CTIVE PERMIT STATUS	4210-SPECIAL HANDLER ORIGINAL P.E.		02/01/2011 EFFECTIVE DATE	01/31/2012 EXPIRATION DATE
			PR0014567 GHP OR UST ID	ACTIVE, BILLABLE CURRENT STATUS(BILLING)	4221 UPDATED P.E.	
☐ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0016131 PERMIT NUMBER	ACTIVE PERMIT STATUS	4420-SPECIAL GENERATOR(B) ORIGINAL P.E.		02/01/2011 EFFECTIVE DATE	01/31/2012 EXPIRATION DATE
			PR0014566 GHP OR UST ID	ACTIVE, BILLABLE CURRENT STATUS(BILLING)	UPDATED P.E.	
ADD NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.
	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.

NUMBER OF ACTIVE UST'S 0

*Is this an operating facility that does not require permits (keep AR active and add 0202 GHP record)? Yes (No)

*Should this facility be inactivated upon verification that there is no balance due? Yes (No)

*Is this a new owner (a blue book comment is required if Q is yes and there is not a request for demand bill)? Yes (No)

*Does this 5050 have attached documents? Yes (No)

*DATE SUBMITTED: 9.19.2011 DATE ENTERED: 9/21/11 FISCAL ENTRY DATE/ INITIAL: VLL, 10/7/11

*SUBMITTED BY: G MAN ENTERED BY: *Demand bill for updated PEs: Yes (No)

SPECIAL INSTRUCTIONS: Information in this location will not be entered into Envision.

COMMENTS/REMARKS: Only text in this area will be entered as a blue book comment. Please attach and label additional sheets needed for comments.

PER INSPECTION OF 9.14.2011, THIS FACILITY DOES NOT QUALIFY FOR A SPECIAL HANDLER PERMIT. 499-GAL PROPANE ON SITE, COMPRESSED GASES OVER 500-FT^3 AND OTHER NON-AUTOMOTIVE MATERIALS ON SITE. PLEASE UPDATE PE 4210 → 4221.

THANKS,

9.19.2011

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected to complete all fields on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

HAZARDOUS MATERIAL FIELD SERVICES
COMPUTER DATABASE UPDATE AUTHORIZATION

UPDATE INVOICE MAILING CODE: (CIRCLE ONE) O F A

CURRENT INVOICE MAILING CODE: F

O- OWNER INFORMATION

OWNER ID: OW0007952

NAME: SMITH CONNECTORS, INC.

ADDRESS 1: 1299 LAWRENCE DR ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91320-1320 COUNTRY: USA

PHONE: 805-498-2589 EXT: FAX:

ALT PHONE: EXT: DRIVER LICENSE:

TAX ID: 77-0301643 OWNER SWITCH DATE: LAST UPDATED:

OWNER MAILING ADDRESS

CARE OF: WALTER SMITH DBA: FULL CIRCLE, INC.

ADDRESS1: 1299 LAWRENCE DRIVE ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91320 COUNTRY: USA

F- FACILITY INFORMATION

FACILITY ID: FA0009441

NAME: FULL-CIRCLE, INC.

ADDRESS 1: 4831 NEWTON RD ADDRESS 2:

CITY: YUCCA VALLEY STATE: CA ZIP CODE: 92284-2284 CITY CODE: YUCCA VALLEY

SIC CODE: BUSINESS CODE: BUSINESS TYPE:

CENSUS: SUPERVISORIAL DISTRICT: 003 INSPECTION DISTRICT: 12

PHONE: 760-369-1234 EXT: FIRE JURISDICTION: SAN BDNO CO. FIRE

ALT PHONE: EXT: FAX: 805-499-2867 LAST UPDATED: 1/11/2005

FACILITY MAILING ADDRESS

BUSINESS NAME: FULL-CIRCLE INC.

CARE OF: ~~CHUCK JOSLIN~~ Walter Smith

ADDRESS 1: PO BOX 276 ADDRESS 2:

CITY: NEWBERRY ~~SPRINGS~~ PARK STATE: CA ZIP CODE: 91319-1319 COUNTRY: USA

EMAIL: fullcir92@aol.com fullcirc@aol.com

A- A/R INFORMATION

ACCOUNT ID: AR0010050

RESPONSIBLE PARTY: WALTER SMITH

CARE OF: SMITH CONNECTORS, INC.

ADDRESS 1: 1299 LAWRENCE DR ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91320-1320 COUNTRY:

PHONE: 805-498-2589 EXT: DRIVER LICENSE:

ALT PHONE: EXT: LAST UPDATED: 6/3/2005

ALT PHONE: EXT: TAX ID:

ANNIVERSARY DATE: 1/31/2005 TOTAL DUE: 0.00 ACCOUNT STATUS: ACTIVE ACCOUNT

PERMIT INFORMATION (CIRCLE THOSE THAT APPLY)

UPDATE/CLOSE/Z.O.B.	PT00[redacted]	ACTIVE	4420	2/1/2005	1/31/2006
	PERMIT NUMBER.	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE

PR0014566	ACTIVE, BILLABLE	NA	NA	
GHP OR UST ID	CURRENT STATUS(BILLING)	GHP FOR UST(PH)	CURRENT STATUS FOR UST(PH)	UPDATED P.E.

UPDATE/CLOSE/Z.O.B.	PT0016132	ACTIVE	4210	2/1/2005	1/31/2006
	PERMIT NUMBER.	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE

PR0014567	ACTIVE, BILLABLE	NA	NA	
GHP OR UST ID	CURRENT STATUS(BILLING)	GHP FOR UST(PH)	CURRENT STATUS FOR UST(PH)	UPDATED P.E.

ADD NEW P.E.

NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.
NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.

NUMBER OF EMP. _____ NUMBER OF UST'S 0 MFR # _____

DATE SUBMITTED: 7-19-05 DATE ENTERED: 7/19 FISCAL DATE: _____

SUBMITTED BY: [signature] ENTERED BY: [signature]

COMMENTS/REMARKS:

Please change FMA to Newberry Park. Also change all Newberry Springs addresses to Newberry Park. Thanks. GF

HAZARDOUS MATERIAL FIELD SERVICES
COMPUTER DATABASE UPDATE AUTHORIZATION

UPDATE INVOICE MAILING CODE: (CIRCLE ONE) O F A CURRENT INVOICE MAILING CODE: F

O- OWNER INFORMATION

OWNER ID: OW0007952

NAME: SMITH CONNECTORS, INC.

ADDRESS 1: 1299 LAWRENCE DR ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91320-1320 COUNTRY: USA

PHONE: 805-498-2589 EXT: FAX:

ALT PHONE: EXT: DRIVER LICENSE:

TAX ID: 77-0301643 OWNER SWITCH DATE: LAST UPDATED:

OWNER MAILING ADDRESS

CARE OF: WALTER SMITH DBA: FULL CIRCLE, INC.

ADDRESS1: 1299 LAWRENCE DRIVE ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91320 COUNTRY: USA

F- FACILITY INFORMATION

FACILITY ID: FA0009441

NAME: FULL-CIRCLE, INC.

ADDRESS 1: 4831 NEWTON RD ADDRESS 2:

CITY: YUCCA VALLEY STATE: CA ZIP CODE: 92284-2284 CITY CODE: YUCCA VALLEY

SIC CODE: BUSINESS CODE: BUSINESS TYPE:

CENSUS: SUPERVISORIAL DISTRICT: 003 INSPECTION DISTRICT: 12

PHONE: 760-369-1234 EXT: FIRE JURISDICTION: SAN BDNO CO. FIRE

ALT PHONE: EXT: FAX: 805-499-2867 LAST UPDATED: 1/11/2005

FACILITY MAILING ADDRESS

BUSINESS NAME: FULL-CIRCLE INC.

CARE OF: CHUCK JOSLIN

ADDRESS 1: PO BOX 276 ADDRESS 2:

CITY: NEWBERRY SPRINGS STATE: CA ZIP CODE: 91319-1319 COUNTRY: USA

EMAIL: fullcir92@aol.com

A- A/R INFORMATION

ACCOUNT ID: AR0010050

RESPONSIBLE PARTY: WALTER SMITH

CARE OF: SMITH CONNECTORS, INC.

ADDRESS 1: 1299 LAWRENCE DR ADDRESS 2:

CITY: NEWBURY PARK STATE: CA ZIP CODE: 91320-1320 COUNTRY:

PHONE: 805-498-2589 EXT: DRIVER LICENSE:

ALT PHONE: EXT: LAST UPDATED: 1/11/2005

ALT PHONE: EXT: TAX ID:

ANNIVERSARY DATE: 1/31/2005 TOTAL DUE: 0.00 ACCOUNT STATUS: ACTIVE ACCOUNT

PERMIT INFORMATION (CIRCLE THOSE THAT APPLY)

UPDATE/CLOSE/Z.O.B.	PT00[redacted]1	ACTIVE	4420	2/1/2004	1/31/2005
	PERMIT NUMBER.	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE

PR0014566	ACTIVE, BILLABLE	NA	NA	
GHP OR UST ID	CURRENT STATUS(BILLING)	GHP FOR UST(PH)	CURRENT STATUS FOR UST(PH)	UPDATED P.E.

UPDATE/CLOSE/Z.O.B.	PT0016132	ACTIVE	4210	2/1/2004	1/31/2005
	PERMIT NUMBER.	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE

PR0014567	ACTIVE, BILLABLE	NA	NA	
GHP OR UST ID	CURRENT STATUS(BILLING)	GHP FOR UST(PH)	CURRENT STATUS FOR UST(PH)	UPDATED P.E.

ADD NEW P.E.

NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.
NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.

NUMBER OF EMP. _____ NUMBER OF UST'S 0 MFR # _____

DATE SUBMITTED: _____ DATE ENTERED: _____ FISCAL DATE: _____

SUBMITTED BY: _____ ENTERED BY: _____

COMMENTS/REMARKS:

HAZARDOUS MATERIAL FIELD SERVICES
COMPUTER DATABASE UPDATE AUTHORIZATION

UPDATE INVOICE MAILING CODE: (CIRCLE ONE) (O) F A

CURRENT INVOICE MAILING CODE:

O- OWNER INFORMATION

OWNER ID:

NAME: Smith Connectors, Inc.

ADDRESS 1: 1299 Lawrence Dr. ADDRESS 2:

CITY: Newbury Park STATE: CA ZIP CODE: 91320 COUNTRY:

PHONE: 805 498-2589 EXT: FAX:

ALT PHONE: 805 499-2867 Fax EXT: DRIVER LICENSE:

TAX ID: 77-0301643 OWNER SWITCH DATE: LAST UPDATED:

OWNER MAILING ADDRESS

CARE OF: Walter Smith DBA: Full Circle

ADDRESS1: 1299 Lawrence Dr. ADDRESS 2:

CITY: Newbury Park STATE: CA ZIP CODE: 91320 COUNTRY:

F- FACILITY INFORMATION

FACILITY ID: 9441

NAME: Full-Circle, Inc.

ADDRESS 1: 4831 Newton Road ADDRESS 2:

CITY: Yucca Valley STATE: CA ZIP CODE: 92284 CITY CODE:

SIC CODE: BUSINESS CODE: BUSINESS TYPE:

CENSUS: SUPERVISORIAL DISTRICT: INSPECTION DISTRICT:

PHONE: 760 369-1234 EXT: FIRE JURISDICTION:

ALT PHONE: EXT: FAX: 760 369-2323 LAST UPDATED:

FACILITY MAILING ADDRESS

BUSINESS NAME: Full-Circle, Inc.

CARE OF: Chuck Joslin

ADDRESS 1: 4831 Newton Road ADDRESS 2:

CITY: Yucca Valley STATE: CA ZIP CODE: 92284 COUNTRY:

EMAIL: fullcirc92@aol.com

A- A/R INFORMATION

ACCOUNT ID:

RESPONSIBLE PARTY: Walter Smith

CARE OF: Smith Connectors, Inc.

ADDRESS 1: 1299 Lawrence Dr. ADDRESS 2:

CITY: Newbury Park STATE: CA ZIP CODE: 91320 COUNTRY:

PHONE: 805 498-2589 EXT: DRIVER LICENSE:

ALT PHONE: EXT: LAST UPDATED:

ALT PHONE: EXT: TAX ID:

ANNIVERSARY DATE: TOTAL DUE: ACCOUNT STATUS:

PERMIT INFORMATION (CIRCLE THOSE THAT APPLY)

UPDATE/CLOSE/Z.O.B.	N/A PERMIT NUMBER	PERMIT STATUS	N/A ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE
GHP OR UST ID	CURRENT STATUS(BILLING)	NA GHP FOR UST(PH)	NA CURRENT STATUS FOR UST(PH)		UPDATED P.E.
ADD NEW P.E.	4420 NEW P.E.	4210 NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.
	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.

NUMBER OF EMP. 10 NUMBER OF UST'S 0 MFR # _____

DATE SUBMITTED: 12-17-04 DATE ENTERED: _____ FISCAL DATE: _____

SUBMITTED BY: Glenn T. Fleming ENTERED BY: _____

COMMENTS/REMARKS:

Per 11/16/04 Inspection.

18890 2/2
Pd 2/15/05

HAZ[redacted]OUS MATERIAL FIELD SERV[redacted]
COMPUTER DATABASE UPDATE AUTHORIZATION

UPDATE INVOICE MAILING CODE: (CIRCLE ONE) (O) F A

CURRENT INVOICE MAILING CODE:

O- OWNER INFORMATION

OWNER ID: 7952

NAME: Smith Connectors, Inc.

ADDRESS 1: 1299 Lawrence Dr. ADDRESS 2:

CITY: Newbury Park STATE: CA ZIP CODE: 91320 COUNTRY:

PHONE: 805 498-2589 EXT: FAX:

ALT PHONE: 805 499-2867 Fax EXT: DRIVER LICENSE:

TAX ID: 77-0301643 OWNER SWITCH DATE: LAST UPDATED:

OWNER MAILING ADDRESS

CARE OF: Walter Smith DBA: Full Circle

ADDRESS1: 1299 Lawrence Dr. ADDRESS 2:

CITY: Newbury Park STATE: CA ZIP CODE: 91320 COUNTRY:

F- FACILITY INFORMATION

FACILITY ID: 9441

NAME: Full-Circle, Inc.

ADDRESS 1: 4831 Newton Road ADDRESS 2:

CITY: Yucca Valley STATE: CA ZIP CODE: 92284 CITY CODE:

SIC CODE: BUSINESS CODE: BUSINESS TYPE:

CENSUS: SUPERVISORIAL DISTRICT: INSPECTION DISTRICT:

PHONE: 760 369-1234 EXT: FIRE JURISDICTION:

ALT PHONE: EXT: FAX: 760 369-2323 LAST UPDATED:

FACILITY MAILING ADDRESS

BUSINESS NAME: Full-Circle, Inc.

CARE OF: Chuck Joslin

ADDRESS 1: 4831 Newton Road ADDRESS 2:

CITY: Yucca Valley STATE: CA ZIP CODE: 92284 COUNTRY:

EMAIL: fullcirc92@aol.com

A- A/R INFORMATION

ACCOUNT ID:

RESPONSIBLE PARTY: Walter Smith

CARE OF: Smith Connectors, Inc.

ADDRESS 1: 1299 Lawrence Dr. ADDRESS 2:

CITY: Newbury Park STATE: CA ZIP CODE: 91320 COUNTRY:

PHONE: 805 498-2589 EXT: DRIVER LICENSE:

ALT PHONE: EXT: LAST UPDATED:

ALT PHONE: EXT: TAX ID:

ANNIVERSARY DATE: TOTAL DUE: ACCOUNT STATUS:

PERMIT INFORMATION (CIRCLE THOSE THAT APPLY)

UPDATE/CLOSE/Z.O.B.	N/A [redacted]		N/A [redacted]		
	PERMIT NUMBER	PERMIT STATUS	ORIGINAL P.E.	EFFECTIVE DATE	EXPIRATION DATE

GHP OR UST ID	CURRENT STATUS(BILLING)	NA GHP FOR UST(PH)	NA CURRENT STATUS FOR UST(PH)	UPDATED P.E.

ADD NEW P.E.	4420	4210					
	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.
	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.

NUMBER OF EMP. 10 NUMBER OF UST'S 0 MFR # _____

DATE SUBMITTED: 12-17-04 DATE ENTERED: 12/28/04 LLD FISCAL DATE: _____

SUBMITTED BY: Adam T Flemming ENTERED BY: _____

COMMENTS/REMARKS:

Per 11/16/04 inspection.

RECEIVED
FEB 21 2005
COUNTY FIRE DEPARTMENT
HAZARDOUS MATERIALS

TRACKING SHEET FOR BUSINESS PLANS

Establishment #

Facility Name:

Facility site address:

City:

Fire Agency:

		Sent to FD
_____ (# of copies)		
Business Plan Received	__/__/__	__/__/__
Result of Review(s)		
Deficiency		__/__/__
Conditional Approval		__/__/__
Approval		__/__/__
		Sent to FD
Revised Plan(s) Received	__/__/__	__/__/__
	__/__/__	__/__/__

Other

Date	Action/documentation (update, new plan, etc.)	Staff Hours
9/19/2011	BP PROCESSED.	
10/05/11	BP received; FD sent 10/07/11	YM
03/08/12	BP update received; FD sent 03/12/12	YM
12/23/14	BP processed	YM
__/__/__		
__/__/__		
__/__/__		
__/__/__		
__/__/__		
__/__/__		
__/__/__		

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BUSINESS OWNER/OPERATOR IDENTIFICATION

I. IDENTIFICATION

FACILITY ID# FA (1)	BEGINNING DATE (100): 3-5-12	ENDING DATE (101): 3-1-13	
BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) (3): Full-Circle		BUSINESS PHONE (102): 805-498-2589	
BUSINESS SITE ADDRESS (103): 4831 Newton Road		BUSINESS FAX (102a): 805-499-2867	
BUSINESS SITE CITY (104): Yucca Valley	CA	ZIP CODE (105): 92284	COUNTY (108): San Bernardino
DUN & BRADSTREET (106): 05-479-7498		PRIMARY SIC (107): 3561	PRIMARY NAICS (107): 333996
BUSINESS MAILING ADDRESS (108a): PO Box# 276			
BUSINESS MAILING CITY (108b): Newbury Park		STATE (108c): CA	ZIP CODE (108d): 91319
BUSINESS OPERATOR NAME (109): Norm Baysinger		BUSINESS OPERATOR PHONE (110):	

II. BUSINESS OWNER

OWNER NAME (111): Walter Smith	OWNER PHONE (112): 805-498-2589
OWNER MAILING ADDRESS (113): P.O. Box# 276	
OWNER MAILING CITY (114): Newbury Park	STATE (115): CA ZIP CODE (116): 91319

III. ENVIRONMENTAL CONTACT

CONTACT NAME (117): Russell Smith	CONTACT PHONE (118): 805-498-6616
CONTACT MAILING ADDRESS (119): PO Box # 276	CONTACT EMAIL (119a): russell@smithpumps.com
CONTACT MAILING CITY (120): Newbury Park	STATE (121): CA ZIP CODE (122): 91319

IV. EMERGENCY CONTACTS

-PRIMARY-	-SECONDARY-
NAME (123): Norm Baysinger	NAME (128): Russell Smith
TITLE (124): Lead	TITLE (129): Quality Coordinator
BUSINESS PHONE (125): 805-498-2589	BUSINESS PHONE (130): 805-498-2589
24-HOUR PHONE (126):	24-HOUR PHONE (131):
PAGER # (127):	PAGER # (132):

ADDITIONAL LOCALLY COLLECTED INFORMATION: (133)

Number of Employees: 7 **Number of Underground Storage Tanks:** 0

SIGNATURE OF OWNER/OPERATOR OR DESIGNATED REPRESENTATIVE	DATE (134): 9-28-11	NAME OF DOCUMENT PREPARER (135): Russell Smith
NAME OF SIGNER (print) (136): Russell Smith	TITLE OF SIGNER (137): Quality Coordinator	

EMERGENCY RESPONSE PLANS & PROCEDURES – AGENCY NOTIFICATION

BUSINESS NAME (Same as FACILITY NAME or DBA) Full-Circle 3

POST BY TELEPHONE

Agency Notification: **If a situation is an emergency, call 911 first.** Additionally, a handler of hazardous materials is required to immediately report any release or threatened release of a hazardous material to San Bernardino County Fire Department, Hazardous Materials Division and the Governor's Office of Emergency Services. Spills exceeding Federal reportable quantities require additional notification to the National Response Center. However, California statute does not limit the requirement to report to any specific quantity. **Also note that calling 911 does not meet the requirement for the handler to report a release and that the local fire department cannot make required notifications on behalf of the handler.** This CUPA requires a written report within 15 days after any reportable release or threatened release. Contact the CUPA for further guidance.

Agency (* Indicates mandatory notification)	Phone Number
1. *Local Emergency Response Agency (if an emergency)	**911**
2. *San Bernardino County Fire Department Hazardous Materials Division	**(800) 33-TOXIC** or **(909) 386-8425**
*Note: (800) 33-TOXIC does not work nationwide; non-local callers must use (909) 386-8425 to report **any** release or threatened release.*	
3. *Cal E·M·A (Formerly known as OES)	**(800) 852-7550** or **(916) 845-8911**
4. National Response Center	**(800) 424-8802**
5. Other Agencies *(Cal OSHA, Regional Board, Air Quality, as applicable)*	

Agency Name	*Phone Number*
Agency Name	*Phone Number*
Agency Name	*Phone Number*

EMERGENCY INFORMATION REQUIRED: BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION

- Name & phone number of person reporting
- Name and street address of the business
- Location of the incident or threatened release
- Type of incident or threatened release
- Hazardous materials involved & physical state
- Hazards to human health and/or environment
- Actions taken or planned
- Contractor or cleanup company name
- Estimate of the quantity released
- Media (soil, water, air) into which release occurred
- Precautions to take (if known)
- Time and duration of the release
- Is the chemical an extremely hazardous substance?
- Extent of injuries, if any
- Is any assistance required?

Release reporting citations (California Health and Safety Code):

§ 25501. Definitions:
(r) "Release" means any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment, unless permitted or authorized by a regulatory agency.
(u) "Threatened release," means a condition creating a substantial probability of harm, when the probability and potential extent of harm make it reasonably necessary to take immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment.

§ 25507(a) ... the handler or any employee, authorized representative, agent, or designee of a handler shall, upon discovery, immediately report any release or threatened release of a hazardous material to the administering agency, and to the office, in accordance with the regulations adopted pursuant to Section 25503. Each handler and any employee, authorized representative, agent, or designee of a handler shall provide all state, city, or county fire or public health or safety personnel and emergency rescue personnel with access to the handler's facilities.

See Appendix G for further citations and explanation.

Date: 9-28-11

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EMERGENCY RESPONSE PLANS AND PROCEDURES

BUSINESS NAME (Same as FACILITY NAME or DBA)
Full-Circle

State Law requires your business to complete all sections of the Emergency Response Procedure listed below:
For each of the following, **briefly** describe your business's standard operating procedures relating to the release or threatened release of hazardous materials located at your facility. You may attach additional pages if necessary, but do not include copies of facility manuals unless requested to do so by this Department. You may reference manuals that are used by your facility for these procedures, but you must still give a brief description here.

EVACUATION/NOTIFICATION: Indicate location(s) where employees, customers, visitors or others on site are to evacuate in an emergency. Describe how your business will immediately notify people and evacuate the facility in the event of a release or threatened release of hazardous materials. Include the route and meeting place.

In case of an emergency all employees, customers, visitors or other personnel in the building will be told to evacuate and will meet in the evacuation staging area in front of the building by Newton Road.

PREVENTION/MITIGATION/ABATEMENT: Describe what policies and procedures your business will follow to prevent, reduce and/or remove the hazard to persons, property or the environment caused by a release or threatened release of hazardous materials and/or hazardous wastes. (√ Check those items that apply and write additional information in the space provided).

- [x] Reduction of containers on site if not used or needed
- [x] Containers are properly labeled and closed when not in use
- [x] Compressed gas cylinders are properly secured
- [ ] Use of monitoring system Type: _____
- [ ] Other:

Date: 9-28-11

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EMERGENCY RESPONSE PLANS AND PROCEDURES

BUSINESS NAME (Same as FACILITY NAME or DBA) Full-Circle

FACILITY TRAINING PLAN: Describe employee and operator training including local emergency response coordination, use of facility emergency equipment, and provisions for initial and refresher training. In addition, describe training for hazardous materials/waste handling as required by OSHA. (√ Check those items that apply and write additional information in the space provided)

- [x] New employee training
- [x] Annual training & periodic refresher courses
- [x] Familiarization with the Emergency Response Plans and Procedures of this Business Plan
- [x] Spill control equipment
- [ ] Monitoring system
- [ ] Personal Protective Equipment
- [ ] On the job training (Described below)
- [ ] Other:

EMERGENCY PROCEDURES: Describe duties of the Emergency Coordinator and how implementation of Facility Emergency Response will be accomplished. (e.g. Notification, evacuation, emergency coordination) (√ Check those items that apply and write additional information in the space provided)

Emergency Coordinator will:

- [x] Identify potential hazards and determine whether a release has occurred
- [x] Activate local emergency systems (e.g. manual shutoff devices) and take appropriate immediate actions based on level of training and the ability to act safely
- [x] Coordinate the notification and evacuation of employees, customers, and other visitors from the facility
- [x] Make required agency notifications and request needed assistance
- [x] Assist responding agencies by providing access to the facility and information about the facility
- [ ] Other:

Date: 9-28-11

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EMERGENCY RESPONSE PLANS AND PROCEDURES

BUSINESS NAME (Same as FACILITY NAME or DBA) 3

Full - Circle

FACILITY EMERGENCY EQUIPMENT: List facility emergency equipment on site (e.g. fire extinguisher, fire alarms, spill control equipment, SCBA, first aid kits, etc.). Include test/maintenance plan. (√ Check those items that apply and write additional information in the space provided)

Equipment	Quantity/Type	Maintenance Schedule/Frequency
☒ Fire extinguisher(s)	5 - ABC Type	yearly
☒ First aid kit(s)	2	yearly
☐ Fire alarm(s)		
☒ Spill control equipment	Absorbent	As needed
☐ Monitoring system		
☐ Personal Protective Equipment		
☐		
☐		
☐		
☐		

FACILITY EARTHQUAKE RESPONSE: Identify areas of the facility as well as mechanical or other systems that require immediate inspection due to their vulnerability to earthquake related ground motion. (e.g. Hazardous materials or waste storage locations, vessels, piping, pipe and tank supports, valves, gauges, etc.) (√ Check those items that apply and write additional information in the space provided)

- ☒ Chemical Storage Locations – Product and Waste
- ☐ Process vessels
- ☒ Aboveground storage tanks
- ☐ Emergency shut-off systems
- ☐ Piping and pipe supports
- ☒ Utility connections
- ☐ _____
- ☐ _____
- ☐ _____
- ☐ _____

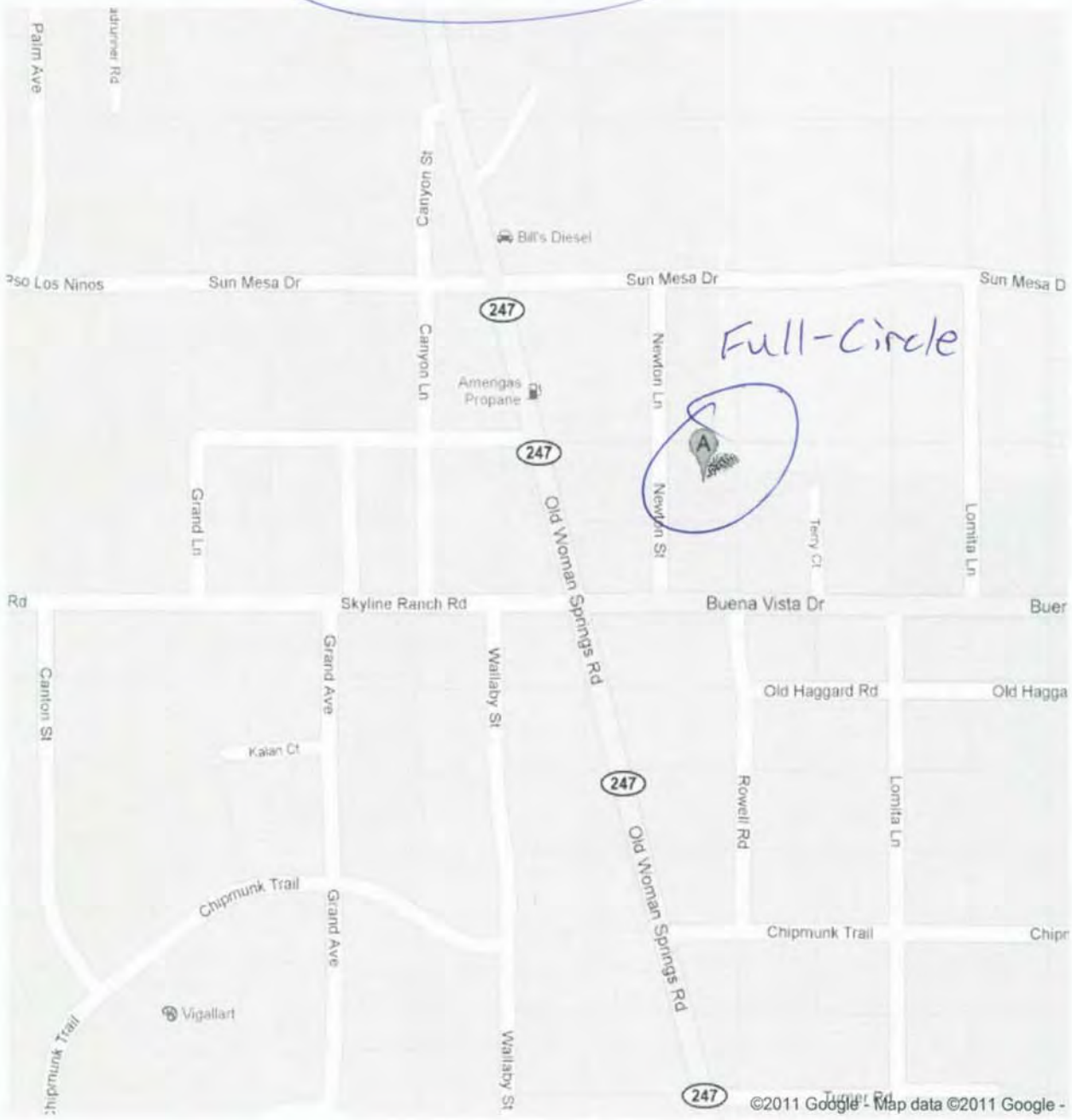
ARRANGEMENTS/AGREEMENTS: Describe any arrangements or agreements that you have with private emergency response teams, waste haulers, disposal companies, recyclers, local hospitals, police and/or fire. If you have no arrangements or agreements, state that fact in the space provided. (√ Check those items that apply and write additional information in the space provided)

- ☒ Hazardous waste hauler Recycle It Environmental Services, Safety-Kleen
- ☐ Emergency response team _____
- ☐ Local hospitals _____
- ☐ Other: _____
- ☐ No arrangements or agreements at this time

Date: 9-28-11

Google maps

Full-Circle
4831 Newton Road
Yucca Valley, CA 92286



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INVENTORY SUMMARY FORM

I. FACILITY IDENTIFICATION

FACILITY ID # F A 9 4 4 1 — 1 (This number is on your CUPA permit.)

BUSINESS NAME (Same as FACILITY NAME or DBA) — 3

Full-Circle

Item #	Name of Hazardous Material or Waste	Maximum Quantity	Size of Largest Container	Unit of Measure
3.	*Lubricating Oil (Example Only)*	*555*	*500*	*Gallon*
1	Waste-Water Soluble oil (coolant)	480	480	gal.
2	Waste-Oils	110	55	gal.
3	Mineral Spirits Odorless	110	55	gal.
4	Oil-base lapping vehicle	110	55	gal.
5	Mobil-Vactra Oil No. 2	110	55	gal.
6	Mobil-DTE 24	110	55	gal.
7	Simple Green Industrial cleaner/degreaser	110	55	gal.
8	Trimsol (coolant)	110	55	gal.
9	Oxygen (O_2)	250	250	$ft.^3$
10	Carbon Dioxide (CO_2)	500	50	Lbs.
11	Acetylene	145	145	$ft.^3$
12	Propane	500	500	gal.

Summarize the Business Plan inventory on this page. Place this summary in front of the inventory section of the Business Plan. Make copies of this sheet as necessary. Reminder: You need not report hazardous materials with a maximum quantity of less than 55 gallons, 500 pounds, 200 cubic feet, or the threshold planning quantity of an extremely hazardous substance. However, hazardous wastes, Category 1 and 2 pesticides, and explosives are reportable at any quantity.

III. SIGNATURE- EPCRA Facilities MUST sign the bottom of each individual attached inventory form.

SIGNATURE OF OWNER/OPERATOR	NAME OF SIGNER (*print*) 136	DATE 134
W. Smith	WALTER SMITH	9-30-11

Inventory Summary Page 1 of 1

San Bernardino County Fire Department • Hazardous Materials Division

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☐ MATERIAL ☒ WASTE | Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# A1 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 | TRADE SECRET ☒ Yes ☐ No 206 (If Subject to EPCRA, refer to instructions)

COMMON NAME Coolant Waste (Trimsol) 207 | EHS* ☐ Yes ☒ No 208

CAS# 209 | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☒ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 | LARGEST CONTAINER 480 gal. tank 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
240 gal	480 gal	480 gal.	134

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 (* If EHS, amount must be in pounds.) | DAYS ON SITE: 365 222

STORAGE CONTAINER (Check one item only) 223
- ☒ a. ABOVE GROUND TANK
- ☐ b. UNDERGROUND TANK
- ☐ c. TANK INSIDE BUILDING
- ☐ d. STEEL DRUM
- ☐ e. PLASTIC/NONMETALLIC DRUM
- ☐ f. CAN
- ☐ g. CARBOY
- ☐ h. SILO
- ☐ i. FIBER DRUM
- ☐ j. BAG
- ☐ k. BOX
- ☐ l. CYLINDER
- ☐ m. GLASS BOTTLE
- ☐ n. PLASTIC BOTTLE
- ☐ o. TOTE BIN
- ☐ p. TANK WAGON
- ☐ q. RAIL CAR
- ☐ r. OTHER

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

B. Sutton
If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☐ MATERIAL ☒ WASTE — Page 1 of 2

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) 3: Full-Circle

FACILITY ID # 1: F A

MAP# 203:

GRID# 204: A1

II. CHEMICAL INFORMATION

CHEMICAL NAME 205:

TRADE SECRET 206: ☐ Yes ☒ No (If Subject to EPCRA, refer to instructions)

COMMON NAME 207: Waste Oils

EHS* 208: ☐ Yes ☒ No

CAS# 209:

*If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) 211: ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE

RADIOACTIVE 212: ☐ Yes ☒ No

CURIES 213:

PHYSICAL STATE (Check one item only) 214: ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS

LARGEST CONTAINER 215: 55 gal. drum

FED HAZARD CATEGORIES (Check all that apply) 216: ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
55 gal.	110 gal.	165 gal.	221

UNITS* (Check one item only) 221: ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS (* If EHS, amount must be in pounds.)

DAYS ON SITE: 222: 365

STORAGE CONTAINER 223:
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☒ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE 224: ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE 225: ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	226	Mineral Spirits Odorless 227	☐ Yes ☒ No 228	64742-48-9 229
2	230	Light Petroleum Distillate 231	☐ Yes ☒ No 232	64742-47-8 233
3	234	Paraffinic Distillates light 235	☐ Yes ☒ No 236	64741-44-2 237
4	238	Paraffinic Distillates heavy 239	☐ Yes ☒ No 240	64742-54-7 241
5	242	Mobil Vactra Oil No. 2 243	☐ Yes ☒ No 244	None 245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

C. Sutton

If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☐ MATERIAL ☒ WASTE — Page 2 of 2

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle (3)

FACILITY ID # F A (1) | MAP# (203) | GRID# (204)

II. CHEMICAL INFORMATION

CHEMICAL NAME (205) | TRADE SECRET ☐ Yes ☒ No (206) — If Subject to EPCRA, refer to instructions

COMMON NAME (207): Waste Oils | EHS* ☐ Yes ☒ No (208)

CAS# (209) | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE (211) | RADIOACTIVE ☐ Yes ☒ No (212) | CURIES (213)

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS (214) | LARGEST CONTAINER: 55 gal. drum (215)

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH (216)

AVERAGE DAILY AMOUNT (217)	MAXIMUM DAILY AMOUNT (218)	ANNUAL WASTE AMOUNT (219)	STATE WASTE CODE (220)
55 gal.	110 gal.		

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS (221) — * If EHS, amount must be in pounds. | DAYS ON SITE: 365 (222)

STORAGE CONTAINER (223)

☐ a. ABOVE GROUND TANK	☐ e. PLASTIC/NONMETALLIC DRUM	☐ i. FIBER DRUM	☐ m. GLASS BOTTLE	☐ q. RAIL CAR
☐ b. UNDERGROUND TANK	☐ f. CAN	☐ j. BAG	☐ n. PLASTIC BOTTLE	☐ r. OTHER
☐ c. TANK INSIDE BUILDING	☐ g. CARBOY	☐ k. BOX	☐ o. TOTE BIN	
☒ d. STEEL DRUM	☐ h. SILO	☐ l. CYLINDER	☐ p. TANK WAGON	

STORAGE PRESSURE (224): ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT

STORAGE TEMPERATURE (225): ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 (226)	Mobil DTE 24 (227)	☐ Yes ☒ No (228)	None (229)
2 (230)	(231)	☐ Yes ☐ No (232)	(233)
3 (234)	(235)	☐ Yes ☐ No (236)	(237)
4 (238)	(239)	☐ Yes ☐ No (240)	(241)
5 (242)	(243)	☐ Yes ☐ No (244)	(245)

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION (246)

If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

San Bernardino County Fire Department • Hazardous Materials Division

620 South "E" Street, San Bernardino, CA 92415-0153 • PHONE (909) 386-8401 FAX (909) 386-8460 www.sbcfire.org

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# D4, F2 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205: Synthetic Isoparaffinic Hydrocarbon

TRADE SECRET ☐ Yes ☒ No 206 (If Subject to EPCRA, refer to instructions)

COMMON NAME 207: Mineral Spirits Odorless

EHS* ☐ Yes ☒ No 208

CAS# 209: 64742-48-9

*If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211

RADIOACTIVE ☐ Yes ☒ No 212

CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214

LARGEST CONTAINER 215: 55 gal. drum

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
55 gal	110 gal		

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.

DAYS ON SITE: 365 222

STORAGE CONTAINER 223
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☒ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

005 01/07/03 MINERAL SPIRITS ODORLESS

****
PRODUCT IDENTIFICATION
****

PRODUCT NAME: MINERAL SPIRITS ODORLESS

MSDS#: EX849691

DATE ISSUED: 10/18/2002

SUPERSEDES: 2/20/2002

ISSUED BY: 008505

MATERIAL SAFETY DATA SHEET

SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MINERAL SPIRITS ODORLESS

CHEMICAL NAME:
SYNTHETIC ISOPARAFFINIC HYDROCARBON 64742-48-9

CHEMICAL FAMILY:
ALIPHATIC HYDROCARBON

PRODUCT DESCRIPTION:
CLEAR COLORLESS LIQUID.

DISTRIBUTED BY:
Univar USA Inc.
6100 Carillon Point
Kirkland, WA 98033
425-889-3400

EMERGENCY TELEPHONE NUMBERS: (24 hrs)
CHEMTREC 800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

THIS PRODUCT IS HAZARDOUS AS DEFINED IN 29 CFR1910.1200.
OSHA HAZARD
COMBUSTIBLE

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS
EYE CONTACT:
SLIGHTLY IRRITATING BUT DOES NOT INJURE EYE TISSUE.
SKIN CONTACT:
FREQUENT OR PROLONGED CONTACT MAY IRRITATE AND CAUSE DERMATITIS.
LOW ORDER OF TOXICITY.
SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS CONDITION.
INHALATION:
HIGH VAPOR/AEROSOL CONCENTRATIONS (GREATER THAN APPROXIMATELY 1000 PPM) ARE IRRITATING TO THE EYES AND THE RESPIRATORY TRACT, MAY CAUSE HEADACHES, DIZZINESS, ANESTHESIA, DROWSINESS, UNCONSCIOUSNESS, AND OTHER CENTRAL NERVOUS SYSTEM EFFECTS, INCLUDING DEATH.
INGESTION:
SMALL AMOUNTS OF THIS PRODUCT ASPIRATED INTO THE RESPIRATORY SYSTEM DURING

INGESTION OR VOMITING MAY CAUSE MILD TO SEVERE PULMONARY INJURY, POSSIBLY PROGRESSING TO DEATH.
MINIMAL TOXICITY.

SECTION 4 FIRST AID MEASURES

EYE CONTACT:
FLUSH EYES WITH LARGE AMOUNTS OF WATER UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
SKIN CONTACT:
FLUSH WITH LARGE AMOUNTS OF WATER; USE SOAP IF AVAILABLE.
REMOVE GROSSLY CONTAMINATED CLOTHING, INCLUDING SHOES, AND LAUNDER BEFORE REUSE.
INHALATION:
USING PROPER RESPIRATORY PROTECTION, IMMEDIATELY REMOVE THE AFFECTED VICTIM FROM EXPOSURE. ADMINISTER ARTIFICIAL RESPIRATION IF BREATHING IS STOPPED. KEEP AT REST. CALL FOR PROMPT MEDICAL ATTENTION.
INGESTION:
IF SWALLOWED, DO NOT INDUCE VOMITING. KEEP AT REST. GET PROMPT MEDICAL ATTENTION.

SECTION 5 FIRE-FIGHTING MEASURES

FLASH POINT: 120 DEG F.
FLAMMABLE LIMITS: LEL: 1.3 UEL: 9.8 @ 77 DEG F. NOTE: APPROXIMA
AUTOIGNITION TEMPERATURE: 660 DEG F. NOTE: APPROXIMATE
GENERAL HAZARD
COMBUSTIBLE LIQUID, CAN FORM COMBUSTIBLE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASHPOINT.
STATIC DISCHARGE, MATERIAL CAN ACCUMULATE STATIC CHARGES WHICH CAN CAUSE AN INCENDIARY ELECTRICAL DISCHARGE .
"EMPTY" CONTAINERS RETAIN PRODUCT RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. EMPTY DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY RETURNED TO A DRUM RECONDITIONER, OR PROPERLY DISPOSED OF.

FIRE FIGHTING
USE WATER SPRAY TO COOL FIRE EXPOSED SURFACES AND TO PROTECT PERSONNEL.
ISOLATE "FUEL" SUPPLY FROM FIRE.
USE FOAM, DRY CHEMICAL, OR WATER SPRAY TO EXTINGUISH FIRE.
AVOID SPRAYING WATER DIRECTLY INTO STORAGE CONTAINERS DUE TO DANGER OF BOILOVER.
THIS LIQUID IS VOLATILE AND GIVES OFF INVISIBLE VAPORS. EITHER THE LIQUID OR VAPOR MAY SETTLE IN LOW AREAS OR TRAVEL SOME DISTANCE ALONG THE GROUND OR SURFACE TO IGNITION SOURCES WHERE THEY MAY IGNITE OR EXPLODE.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL
ELIMINATE SOURCES OF IGNITION. PREVENT ADDITIONAL DISCHARGE OF MATERIAL, IF POSSIBLE TO DO SO WITHOUT HAZARD. FOR SMALL SPILLS IMPLEMENT CLEANUP PROCEDURES; FOR LARGE SPILLS IMPLEMENT CLEANUP PROCEDURES AND, IF IN PUBLIC AREA, KEEP PUBLIC AWAY AND ADVISE AUTHORITIES. ALSO, IF THIS PRODUCT IS SUBJECT TO CERCLA REPORTING (SEE SECTION 15 REGULATORY INFORMATION) NOTIFY THE NATIONAL RESPONSE CENTER.
PREVENT LIQUID FROM ENTERING SEWERS, WATERCOURSES, OR LOW AREAS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST.
RECOVER BY PUMPING (USE AN EXPLOSION PROOF OR HAND PUMP) OR WITH A

SUITABLE ABSORBENT.
CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

WATER SPILL
ELIMINATE SOURCES OF IGNITION. WARN OCCUPANTS AND SHIPPING IN SURROUNDING AND DOWNWIND AREAS OF FIRE AND EXPLOSION HAZARD AND REQUEST ALL TO STAY CLEAR.
REMOVE FROM SURFACE WITH SUITABLE ADSORBENTS. IF ALLOWED BY LOCAL AUTHORITIES AND ENVIRONMENTAL AGENCIES, SINKING AND/OR SUITABLE DISPERSANTS MAY BE USED IN NON-CONFINED WATERS.
CONSULT AN EXPERT ON DISPOSAL OF RECOVERED MATERIAL AND ENSURE CONFORMITY TO LOCAL DISPOSAL REGULATIONS.

SECTION 7 STORAGE AND HANDLING

ELECTROSTATIC ACCUMULATION HAZARD:
YES, USE PROPER BONDING AND/OR GROUNDING PROCEDURE.
ADDITIONAL INFORMATION REGARDING SAFE HANDLING OF PRODUCTS WITH STATIC ACCUMULATION POTENTIAL CAN BE ORDERED BY CONTACTING THE AMERICAN PETROLEUM INSTITUTE (API) FOR API RECOMMENDED PRACTICE 2003, ENTITLED "PROTECTION AGAINST IGNITIONS ARISING OUT OF STATIC, LIGHTING, AND STRAY CURRENTS" (AMERICAN PETROLEUM INSTITUTE, 1220 L STREET NORTHWEST, WASHINGTON, DC 20005), OR THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) FOR NFPA 77 ENTITLED "STATIC ELECTRICITY" (NATIONAL FIRE PROTECTION ASSOCIATION, 1 BATTERYMARCH PARK, P.O. BOX 9101, QUINCY, MA 02269-9101).
STORAGE TEMPERATURE, DEG F:
AMBIENT
LOADING/UNLOADING TEMPERATURE, DEG F:
AMBIENT
STORAGE/TRANSPORT PRESSURE, MMHG:
ATMOSPHERIC
LOADING/UNLOADING VISCOSITY, CST:
2.1
STORAGE AND HANDLING:
KEEP CONTAINER CLOSED. HANDLE AND OPEN CONTAINERS WITH CARE. STORE IN A COOL, WELL VENTILATED PLACE AWAY FROM INCOMPATIBLE MATERIALS.
DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. PROTECT MATERIAL FROM DIRECT SUNLIGHT.
MATERIAL WILL ACCUMULATE STATIC CHARGES WHICH MAY CAUSE AN ELECTRICAL SPARK (IGNITION SOURCE). USE PROPER BONDING AND/OR GROUNDING PROCEDURES.
DO NOT PRESSURIZE, CUT, HEAT, OR WELD CONTAINERS. EMPTY PRODUCT CONTAINERS MAY CONTAIN PRODUCT RESIDUE. DO NOT REUSE EMPTY CONTAINERS WITHOUT COMMERCIAL CLEANING OR RECONDITIONING.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS
THE USE OF LOCAL EXHAUST VENTILATION IS RECOMMENDED TO CONTROL PROCESS EMISSIONS NEAR THE SOURCE. LABORATORY SAMPLES SHOULD BE HANDLED IN A LAB HOOD. PROVIDE MECHANICAL VENTILATION OF CONFINED SPACES. SEE RESPIRATORY PROTECTION RECOMMENDATIONS.

PERSONAL PROTECTION
FOR OPEN SYSTEMS WHERE CONTACT IS LIKELY, WEAR SAFETY GLASSES WITH SIDE SHIELDS, LONG SLEEVES, AND CHEMICAL RESISTANT GLOVES.
WHERE CONTACT MAY OCCUR, WEAR SAFETY GLASSES WITH SIDE SHIELDS.
WHERE CONCENTRATIONS IN AIR MAY EXCEED THE LIMITS GIVEN IN THIS SECTION AND ENGINEERING, WORK PRACTICE OR OTHER MEANS OF EXPOSURE REDUCTION ARE NOT ADEQUATE, NIOSH/MSHA APPROVED RESPIRATORS MAY BE NECESSARY TO PREVENT OVEREXPOSURE BY INHALATION.

WORKPLACE EXPOSURE GUIDELINES

VENDOR RECOMMENDS THE FOLLOWING OCCUPATIONAL EXPOSURE LIMITS:
A TWA OF 1200 MG/M3 (177 PPM) BASED ON TOTAL HYDROCARBON.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY, AT DEG F:	0.76 AT 60
VAPOR PRESSURE, MMHG AT DEG F:	1 AT 68 3 AT 100
SOLUBILITY IN WATER, WT. % AT DEG F:	LESS THAN 0.01 AT 77
VISCOSITY OF LIQUID, CST AT DEG F:	1.7 AT 77 APPROXIMATE
SP. GRAV. OF VAPOR, AT 1 ATM (AIR=1):	5.40 CALCULATED
FREEZING/MELTING POINT, DEG F:	LESS THAN -76
EVAPORATION RATE, N-BU ACETATE=1:	LESS THAN 0.1
BOILING POINT, DEG F:	354 TO 372

SECTION 10 STABILITY AND REACTIVITY

STABILITY:
STABLE
CONDITIONS TO AVOID INSTABILITY:
NOT APPLICABLE
HAZARDOUS POLYMERIZATION:
WILL NOT OCCUR
CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION:
NOT APPLICABLE
MATERIALS AND CONDITIONS TO AVOID INCOMPATIBILITY:
HAZARDOUS DECOMPOSITION PRODUCTS:
NONE

SECTION 11 TOXICOLOGICAL INFORMATION

PLEASE REFER TO SECTION 3 FOR AVAILABLE INFORMATION ON POTENTIAL HELATH EFFECTS.

SECTION 12 ECOLOGICAL INFORMATION

NO SPECIFIC ECOLOGICAL DATA ARE AVAILABLE FOR THIS PRODUCT. PLEASE REFE TO SECTION 6 FOR INFORMATION REGARDING ACCIDENTAL RELEASES AND SECTION 1 FOR REGULATORY REPORTING INFORMATION.

SECTION 13 DISPOSAL CONSIDERATIONS

PLEASE REFER TO SECTIONS 5, 6 AND 15 FOR DISPOSAL AND REGULATORY INFORMATION.

SECTION 14 TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):
DOT SHIPPING DESCRIPTION: PETROLEUM DISTILLATE, N.O.S., COMBUSTIBLE LIQUID UN 1268, III
NOTE: IN CONTAINERS OF 119 GALLONS CAPACITY OR LESS THIS PRODUCT IS NOT REGULATED BY DOT.

SECTION 15 REGULATORY INFORMATION

TSCA:

THIS PRODUCT IS LISTED ON THE TSCA INVENTORY AT CAS REGISTRY NUMBER 64742-48-9

CLEAN WATER ACT/OIL POLLUTION ACT:
THIS PRODUCT IS CLASSIFIED AS AN OIL UNDER SECTION 311 OF THE CLEAN WATER ACT (40 CFR 110) AND THE OIL POLLUTION ACT OF 1990. DISCHARGE OR SPILLS WHICH PRODUCE A VISIBLE SHEEN ON EITHER SURFACE WATER, OR IN WATERWAYS/SEWERS WHICH LEAD TO SURFACE WATER, MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER AT 800-424-8802.

CERCLA:
IF THIS PRODUCT IS ACCIDENTALLY SPILLED, IT IS NOT SUBJECT TO ANY SPECIAL REPORTING UNDER THE REQUIREMENTS OF THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT. WE RECOMMEND YOU CONTACT LOCAL AUTHORITIES TO DETERMINE IF THERE MAY BE OTHER LOCAL REPORTING REQUIREMENTS.

SARA TITLE III:
UNDER THE PROVISIONS OF TITLE III, SECTIONS 311/312 OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT, THIS PRODUCT IS CLASSIFIED INTO THE FOLLOWING HAZARD CATEGORIES:
FIRE.
THIS INFORMATION MAY BE SUBJECT TO THE PROVISIONS OF THE COMMUNITY RIGHT-TO-KNOW REPORTING REQUIREMENTS (40 CFR 370) IF THRESHOLD QUANTITY CRITERIA ARE MET.

SECTION 16 OTHER INFORMATION

HAZARD RATING SYSTEMS:
THIS INFORMATION IS FOR PEOPLE TRAINED IN:
NATIONAL PAINT & COATINGS ASSOCIATION'S (NPCA)
HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 704)
IDENTIFICATION OF THE FIRE HAZARDS OF MATERIALS

	NPCA-HMIS	NFPA 704
HEALTH	1	1
FLAMMABILITY	2	2
REACTIVITY	0	0

KEY
4 = SEVERE
3 = SERIOUS
2 = MODERATE
1 = SLIGHT
0 = MINIMAL

CAUTION: HMIS ratings are based on a 0-4 rating scale with 1 representing minimal hazards or risks, and f representing significant hazards or risks. Recommended HMIS ratings should not be used in the absence of a fully implemented HMIS hazard communication program.

---------- FOR ADDITIONAL INFORMATION ----------
CONTACT: MSDS COORDINATOR UNIVAR USA INC.
DURING BUSINESS HOURS, PACIFIC TIME (425)889-3400
---------- NOTICE ----------

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PARTICULAR PURPOSE, WITH RESPECT TO THE PRODUCT OR INFORMATION PROVIDED HEREIN,

AND SHALL UNDER NO CIRCUMSTANCES BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

DO NOT USE INGREDIENT INFORMATION AND/OR INGREDIENT PERCENTAGES IN THIS MSDS AS A PRODUCT SPECIFICATION. FOR PRODUCT SPECIFICATION INFORMATION REFER TO A PRODUCT SPECIFICATION SHEET AND/OR A CERTIFICATE OF ANALYSIS. THESE CAN BE OBTAINED FROM YOUR LOCAL UNIVAR SALES OFFICE.

ALL INFORMATION APPEARING HEREIN IS BASED UPON DATA OBTAINED FROM THE MANUFACTURER AND/OR RECOGNIZED TECHNICAL SOURCES. WHILE THE INFORMATION IS BELIEVED TO BE ACCURATE, UNIVAR MAKES NO REPRESENTATIONS AS TO ITS ACCURACY OR SUFFICIENCY. CONDITIONS OF USE ARE BEYOND UNIVARS CONTROL AND THEREFORE USERS ARE RESPONSIBLE TO VERIFY THIS DATA UNDER THEIR OWN OPERATING CONDITIONS TO DETERMINE WHETHER THE PRODUCT IS SUITABLE FOR THEIR PARTICULAR PURPOSES AND THEY ASSUME ALL RISKS OF THEIR USE, HANDLING, AND DISPOSAL OF THE PRODUCT, OR FROM THE PUBLICATION OR USE OF, OR RELIANCE UPON , INFORMATION CONTAINED HEREIN. THIS INFORMATION RELATES ONLY TO THE PRODUCT DESIGNATED HEREIN, AND DOES NOT RELATE TO ITS USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY OTHER PROCESS.

* * * E N D O F M S D S * * *

San Bernardino County Fire Department • Hazardous Materials Division
620 South "E" Street, San Bernardino, CA 92415-0153 • PHONE (909) 386-8401 FAX (909) 386-8460 www.sbcfire.org

HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# F2, D4 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 | TRADE SECRET ☐ Yes ☒ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME 207: Oil-base lapping vehicle | EHS* ☐ Yes ☒ No 208

CAS# 209 | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☒ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 | LARGEST CONTAINER 55 gal. drum 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
55 gal.	110 gal.		

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221
* If EHS, amount must be in pounds.
DAYS ON SITE: 365 222

STORAGE CONTAINER 223
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☒ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	10.0 226	Paraffinic Distillates Light 227	☐ Yes ☒ No 228	64741-44-2 229
2	75.0 230	Light Petroleum Distillate 231	☐ Yes ☒ No 232	64742-47-8 233
3	15.0 234	Paraffinic Distillates Heavy 235	☐ Yes ☒ No 236	64742-54-7 237
4	238	239	☐ Yes ☐ No 240	241
5	242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

J. Smith
If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

501 W. Algonquin Road
Mt. Prospect, IL 60056 USA
1-224-659-7101 (phone)
1-224-659-7103 (fax)
www.lapmaster.com

Lapmaster International

LAPMASTER®

MATERIAL SAFETY DATA SHEET

Date: April 2010

Section #1: PRODUCT AND COMPANY IDENTIFICATION

Lapmaster International, LLC
501 W. Algonquin Road
Mt. Prospect, IL 60056

Telephone: (224) 659-7101 (Office Hours 8:00 a.m. to 5:30 p.m. CST)
Emergency Phone: 24 Hours/Chemtrec – 1-800-424-9300

Product Identification: Oil-Base Lapping Vehicle
Product Name: Oil-Base Vehicle #3

Section #2: COMPOSITION INFORMATION ON INGREDIENTS

Ingredient Information: Oil Distillates

Component Name	Percentage %	CAS Number	OSHA PEL	ACGIH TWA
Paraffinic Distillates Light	< 10%	64741-44-2	5mg/m3	5mg/m3
Light Petroleum Distillate	< 75%	64742-47-8	Not Established	Not Established
Paraffinic Distillates Heavy	< 15%	64742-54-7	5mg/m3	5mg/m3

Section #3: HAZARDS INFORMATION

EMERGENCY OVERVIEW: Spill may cause slipping hazard

POTENTIAL HEALTH EFFECTS:

EYE: May cause irritation
SKIN: May cause irritation
INGESTION: May cause irritation or loose bowels
INHALATION: No hazard in normal use

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
None Known

HEALTH HAZARDS (ACUTE AND CHRONIC):

Health – 2
Flammability - 2

SIGNS AND SYMPTOMS OF EXPOSURE:

No Data Available

CHRONIC / CARCINOGENICITY:

N/A
NTP: N/A
OSHA: N/A
IARC: N/A

Section #4: FIRST AID MEASURES

EYES: Remove Contacts – Flush eyes with saline – Seek Medical Attention
SKIN: Wash with Soap and water for 15 minutes – If irritated, Seek Medical Attention
INGESTION: DO NOT Induce Vomiting, Provide water or milk– Seek Medical Attention
INHALATION: Remove to fresh air, seek medical attention

Section #5: FIRE FIGHTING MEASURES

FIRE FIGHTING: Wear self-contained breathing apparatus. Avoid fume inhalation.
EXTINGUISHING MEDIA: CO2; Dry Chemical; Foam
HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide and Carbon Dioxide
CONDITIONS OF FLAMMABILITY: 180 Degrees F Flashpoint or ignition source
Lower Explosive Limit: 0.9% Upper Explosive Limit: 7.0%
EXPLOSION DATA:
IMPACT SENSITIVITY: N/A
STATIC DISCHARGE: N/A
AUTOIGNITION: 660 degrees F

Section #6: ACCIDENTAL RELEASE MEASURES

GENERAL: Confine spill, use local and/or federal regulations in the collecting and disposal of material.

Section #7: HANDLING AND STORAGE

HANDLING: Wear Safety Goggles, Use Protective Gloves
STORAGE: Store between 60 & 90 degrees F. Keep containers sealed until ready for use. Avoid (keep away) from sources of ignition.

Section #8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: N/A
PERSONAL PROTECTION:
EYE/FACE: Wear Chemical Safety Goggles
SKIN: Use Oil-Resistant Gloves
RESPIRATORY: N/A

Section #9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
ODOR AND APPEARANCE:	Mild Oil Odor
BOILING POINT:	367-450 degrees F
Viscosity:	40 SUS
PH:	N/A
VAPOR PRESSURE (mmHg):	<1.0mm Hg @ 75 degrees F
SPECIFIC GRAVITY:	0.8085
WATER SOLUBILITY:	No
% VOLATILES:	> 75%
EVAPORATION RATE:	Slower than Butyl Acetate
COEFFICIENT WATER/OIL:	0% Water

Section #10: STABILITY AND REACTIVITY

STABILITY: Stable
STABILITY CONDITIONS TO AVOID: Strong Oxidizers
REACTIVITY: N/A
REACTIVITY CONDITIONS TO AVOID: Exposure to heat or flame

Section #11: TOXICOLOGICAL INFORMATION

ACUTE HEALTH HAZARDS:
ACUTE ORAL: N/A
COMPONENTS: N/A

Section #12: ECOLOGICAL INFORMATION

GENERAL: Product is classified as an oil under EPA-CWA Section 311. Spills leading to surface waters must be reported to National Response Center.

Section #13: DISPOSAL INFORMATION

WASTE DISPOSAL: Comply with State and/or Federal regulations
RCRA HAZARDOUS WASTE: Not RCRA hazardous waste

Section #14: TRANSPORTATION INFORMATION

DOT HAZARD CLASS:	Flammable Liquid, Hazard Class 3
PROPER SHIPPING NAME:	Petroleum Distillates, N.O.S.
IDENTIFICATION NUMBER:	UN1268
TDGA:	Not Listed
Packing Group:	III

Section #15: REGULATORY INFORMATION

TSCA STATUS: All ingredients in this product are on the TSCA inventory
WHMIS CLASSIFICATION: N/A
SARA Title III: No SARA section 313 components exist in this product

Section #16: OTHER INFORMATION

HMIS Code: Health 1, Flammability 2, Reactivity 0, Personal Protection B

Volatile Organic Compounds (VOCS): 4.98 lbs/gal, 597 grams/liter

The information contained in this Material Safety Data Sheet (MSDS) document is believed to be accurate and reliable. Because it is impossible to anticipate all conditions of use, some additional safety precautions may be required. ***LAPMASTER INTERNATIONAL, LLC, MAKES NO REPRESENTATION OR WARRANTY, EITHER EXPRESS OR IMPLIED, AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.*** Each user should read and understand the information provided and incorporate it into their individual site safety programs as required by applicable hazard communication standards and regulations.

ABBREVIATIONS:

ACGIG	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstracts Service
EPA	Environmental Protection Agency
PEL	Permissible Exposure Limit
PPE	Personal Protective Equipment
EPRCA 313	Emergency Planning & Community Right-to-Know Act, Section 313
WHIMIS	Canadian Workplace Hazardous Material Information System
OSHA	Occupational Health and Safety Administration

San Bernardino County Fire Department • Hazardous Materials Division

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# F2, E4 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 | TRADE SECRET ☐ Yes ☒ No 206 (If Subject to EPCRA, refer to instructions)

COMMON NAME 207: Mobil Vactra Oil No. 2 | EHS* ☐ Yes ☒ No 208

CAS# 209: No Reportable Hazardous Substances | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☒ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 | LARGEST CONTAINER 55 gal. drum 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
55 gal.	110 gal.		

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 (* If EHS, amount must be in pounds.) | DAYS ON SITE: 365 222

STORAGE CONTAINER 223
- ☐ a. ABOVE GROUND TANK
- ☐ b. UNDERGROUND TANK
- ☐ c. TANK INSIDE BUILDING
- ☒ d. STEEL DRUM
- ☐ e. PLASTIC/NONMETALLIC DRUM
- ☐ f. CAN
- ☐ g. CARBOY
- ☐ h. SILO
- ☐ i. FIBER DRUM
- ☐ j. BAG
- ☐ k. BOX
- ☐ l. CYLINDER
- ☐ m. GLASS BOTTLE
- ☐ n. PLASTIC BOTTLE
- ☐ o. TOTE BIN
- ☐ p. TANK WAGON
- ☐ q. RAIL CAR
- ☐ r. OTHER

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: **MOBIL VACTRA OIL NO. 2**
Product Description: Base Oil and Additives
Product Code: 600494-00, 970716
Intended Use: Lubricant

COMPANY IDENTIFICATION

Supplier: **EXXON MOBIL CORPORATION**
3225 GALLOWS RD.
FAIRFAX, VA. 22037 USA

24 Hour Health Emergency	609-737-4411
Transportation Emergency Phone	800-424-9300
ExxonMobil Transportation No.	281-834-3296
Product Technical Information	800-662-4525, 800-947-9147
MSDS Internet Address	http://www.exxon.com, http://www.mobil.com

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 3 HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0
HMIS Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use

mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Smoke, Fume, Aldehydes, Sulfur oxides, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES

Flash Point [Method]: >205C (401F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 HANDLING AND STORAGE

HANDLING

Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is a static accumulator.

STORAGE

Do not store in open or unlabelled containers. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator

selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid
Color: Brown
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 C): 0.883
Flash Point [Method]: >205C (401F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: N/D
Vapor Density (Air = 1): > 2 at 101 kPa
Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A

Log Pow (n-Octanol/Water Partition Coefficient): > 3.5
Solubility in Water: Negligible
Viscosity: 68 cSt (68 mm2/sec) at 40 C | 8.6 cSt (8.6 mm2/sec) at 100C
Oxidizing Properties: See Sections 3, 15, 16.

OTHER INFORMATION

Freezing Point: N/D
Melting Point: N/A
Pour Point: -6°C (21°F)
DMSO Extract (mineral oil only), IP-346: < 3 %wt

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
Toxicity (Rat): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

CHRONIC/OTHER EFFECTS

Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be

completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT) : Not Regulated for Land Transport

LAND (TDG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, DSL, EINECS, ENCS, KECI, PICCS, TSCA

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The Following Ingredients are Cited on the Lists Below: None.

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

No revision information is available.

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# E4, F2 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 | TRADE SECRET ☐ Yes ☒ No 206 (If Subject to EPCRA, refer to instructions)

COMMON NAME 207: Mobil DTE 24 | EHS* ☐ Yes ☒ No 208

CAS# 209: No Reportable Hazardous Substances | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☒ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 | LARGEST CONTAINER 55 gal. drum 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
55 gal.	110 gal.		

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 (* If EHS, amount must be in pounds.) | DAYS ON SITE: 365 222

STORAGE CONTAINER 223
- ☐ a. ABOVE GROUND TANK
- ☐ b. UNDERGROUND TANK
- ☐ c. TANK INSIDE BUILDING
- ☒ d. STEEL DRUM
- ☐ e. PLASTIC/NONMETALLIC DRUM
- ☐ f. CAN
- ☐ g. CARBOY
- ☐ h. SILO
- ☐ i. FIBER DRUM
- ☐ j. BAG
- ☐ k. BOX
- ☐ l. CYLINDER
- ☐ m. GLASS BOTTLE
- ☐ n. PLASTIC BOTTLE
- ☐ o. TOTE BIN
- ☐ p. TANK WAGON
- ☐ q. RAIL CAR
- ☐ r. OTHER

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: **MOBIL DTE 24**
Product Description: Base Oil and Additives
Product Code: 201560102010, 602623-00, 970972
Intended Use: Hydraulic fluid

COMPANY IDENTIFICATION

Supplier: **EXXON MOBIL CORPORATION**
3225 GALLOWS RD.
FAIRFAX, VA. 22037 USA

24 Hour Health Emergency	609-737-4411
Transportation Emergency Phone	800-424-9300
ExxonMobil Transportation No.	281-834-3296
Product Technical Information	800-662-4525, 800-947-9147
MSDS Internet Address	http://www.exxon.com, http://www.mobil.com

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 3 HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0
HMIS Hazard ID:	Health:	0	Flammability:	1	Reactivity:	0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use

adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Pressurized mists may form a flammable mixture.

Hazardous Combustion Products: Smoke, Fume, Aldehydes, Sulfur oxides, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES

Flash Point [Method]: >200C (392F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The

National Response Center can be reached at (800)424-8802.

PROTECTIVE MEASURES

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders. For emergency responders: Respiratory protection: respiratory protection will be necessary only in special cases, e.g., formation of mists. Half-face or full-face respirator with filter(s) for dust/organic vapor or Self Contained Breathing Apparatus (SCBA) can be used depending on the size of spill and potential level of exposure. If the exposure cannot be completely characterized or an oxygen deficient atmosphere is possible or anticipated, SCBA is recommended. Work gloves that are resistant to hydrocarbons are recommended. Gloves made of polyvinyl acetate (PVA) are not water-resistant and are not suitable for emergency use. Chemical goggles are recommended if splashes or contact with eyes is possible. Small spills: normal antistatic work clothes are usually adequate. Large spills: full body suit of chemical resistant, antistatic material is recommended.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 HANDLING AND STORAGE

HANDLING

Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). When the material is handled in bulk, an electrical spark could ignite any flammable vapors from liquids or residues that may be present (e.g., during switch-loading operations). Use proper bonding and/or ground procedures. However, bonding and grounds may not eliminate the hazard from static accumulation. Consult local applicable standards for guidance. Additional references include American Petroleum Institute 2003 (Protection Against Ignitions Arising out of Static, Lightning and Stray Currents) or National Fire Protection Agency 77 (Recommended Practice on Static Electricity) or CENELEC CLC/TR 50404 (Electrostatics - Code of practice for the avoidance of hazards due to static electricity).

Static Accumulator: This material is a static accumulator.

STORAGE

The container choice, for example storage vessel, may effect static accumulation and dissipation. Do not store in open or unlabelled containers. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product: When mists/aerosols can occur the following are recommended: 5 mg/m³ - ACGIH TLV (inhalable fraction), 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

GENERAL INFORMATION

Physical State: Liquid
Color: Brown
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15.6 C): 0.871
Flash Point [Method]: >200C (392F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: > 316C (600F)
Vapor Density (Air = 1): > 2 at 101 kPa
Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): > 3.5
Solubility in Water: Negligible
Viscosity: 32 cSt (32 mm2/sec) at 40 C | 5.3 cSt (5.3 mm2/sec) at 100C
Oxidizing Properties: See Hazards Identification Section.

OTHER INFORMATION

Freezing Point: N/D
Melting Point: N/A
Pour Point: -18°C (0°F)
DMSO Extract (mineral oil only), IP-346: < 3 %wt

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
Toxicity (Rat): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 5000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

CHRONIC/OTHER EFFECTS

Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products. Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT): Not Regulated for Land Transport

LAND (TDG): Not Regulated for Land Transport

SEA (IMDG): Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not

classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

Complies with the following national/regional chemical inventory requirements:: ENCS, AICS, TSCA, DSL, IECSC, PICCS, KECI, EINECS

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
SOLVENT REFINED LIGHT NAPHTHENIC DISTILLATE (PETROLEUM)	64741-97-5	16, 17
ZINC ALKYL DITHIOPHOSPHATE	68649-42-3	15

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Changes:
Section 13: Disposal Considerations - Disposal Recommendations was modified.
Section 01: Product Code was modified.
Section 10 Stability and Reactivity - Header was modified.
Section 13: Disposal Recommendations - Note was modified.
Section 09: Phys/Chem Properties Note was modified.
Section 09: Color was modified.
Section 08: Personal Protection was modified.
Section 07: Handling and Storage - Handling was modified.
Section 07: Handling and Storage - Storage Phrases was modified.
Section 11: Inhalation Lethality Test Comment was modified.
Section 11: Dermal Irritation Test Comment was modified.

Section 11: Eye Irritation Test Comment was modified.
Section 05: Hazardous Combustion Products was modified.
Section 06: Accidental Release - Spill Management - Water was modified.
Section 09: Relative Density - Header was modified.
Section 09: Flash Point C(F) was modified.
Section 09: Viscosity was modified.
Section 09: Viscosity was modified.
Section 14: Sea (IMDG) - Header was modified.
Section 14: Air (IATA) - Header was modified.
Section 14: LAND (TDG) - Header was modified.
Section 14: LAND (DOT) - Header was modified.
Section 15: List Citation Table - Header was modified.
Section 14: LAND (DOT) - Default was modified.
Section 14: LAND (TDG) Default was modified.
Section 14: Sea (IMDG) - Default was modified.
Section 14: Air (IATA) - Default was modified.
Section 15: National Chemical Inventory Listing - Header was modified.
Section 15: National Chemical Inventory Listing was modified.
Section 08: Exposure limits/standards was modified.
Hazard Identification: OSHA - May be Hazardous Statement was modified.
Section 09: Oxidizing Properties was modified.
Section 06: Protective Measures was added.
Section 06: Accidental Release - Protective Measures - Header was added.
Section 15: Chemical Name - Header was added.
Section 15: CAS Number - Header was added.
Section 15: List Citations - Header was added.
Section 15: List Citations Table was added.

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# E4, G2 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 | TRADE SECRET ☐ Yes ☒ No 206 (If Subject to EPCRA, refer to instructions)

COMMON NAME 207: Crystal Simple Green | EHS* ☐ Yes ☒ No 208

CAS# 209 | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☒ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 | LARGEST CONTAINER 55 gal. drum 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
55 gal.	110 gal.		

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 (* If EHS, amount must be in pounds.) | DAYS ON SITE: 365 222

STORAGE CONTAINER 223
- ☐ a. ABOVE GROUND TANK
- ☐ b. UNDERGROUND TANK
- ☐ c. TANK INSIDE BUILDING
- ☒ d. STEEL DRUM
- ☐ e. PLASTIC/NONMETALLIC DRUM
- ☐ f. CAN
- ☐ g. CARBOY
- ☐ h. SILO
- ☐ i. FIBER DRUM
- ☐ j. BAG
- ☐ k. BOX
- ☐ l. CYLINDER
- ☐ m. GLASS BOTTLE
- ☐ n. PLASTIC BOTTLE
- ☐ o. TOTE BIN
- ☐ p. TANK WAGON
- ☐ q. RAIL CAR
- ☐ r. OTHER

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	78.0 226	Water 227	☐ Yes ☒ No 228	7732-18-5 229
2	6.0 230	2-butoxyethanol 231	☐ Yes ☒ No 232	111-76-2 233
3	5.0 234	Ethoxylated Alcohol Mixture 235	☐ Yes ☒ No 236	Proprietary 237
4	5.0 238	Tetrapotassium Pyrophosphate 239	☐ Yes ☒ No 240	7320-34-5 241
5	5.0 242	Sodium Citrate 243	☐ Yes ☒ No 244	68-04-2 245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

B. Sutton
If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

Material Safety Data Sheet: **Crystal Simple Green® Industrial Cleaner/Degreaser**
Simple Green® Safety Towels

Version No. 19128-11B Date of Issue: September 2011 *ANSI-Z400.1-2003 Format*

Section 1: PRODUCT & COMPANY IDENTIFICATION

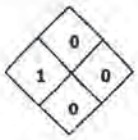
Product Name: Crystal Simple Green® Industrial Cleaner and Degreaser
Additional Names: Simple Green® Safety Towels (fluid only)

Manufacturer's Part Number: **Please refer to page 4*

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Beach, CA 92649 USA
Telephone: 800-228-0709 • 562-795-6000 Fax: 562-592-3830
Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Section 2: HAZARDS IDENTIFICATION

Emergency Overview: **CAUTION. Irritant. This is a clear colored liquid with a chemical/detergent odor. Safety towels are infused with a diluted version of mixture.**



NFPA/HMIS Rating:
Health = 1 = slight
Fire, Reactivity, and Special = 0 = minimal

Potential Health Effects

Eye Contact: Mildly irritating.
Skin Contact: No adverse effects expected under typical use conditions. Prolonged exposure may cause dryness. Chemically sensitive individuals may experience mild irritation.
Ingestion: May cause stomach or intestinal irritation if swallowed.
Inhalation: No adverse effects expected under typical use conditions. Adequate ventilation should be present for prolonged usage in small enclosed areas.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Number	Percent Range
Water	7732-18-5	≥ 78%
2-butoxyethanol	111-76-2	≤ 6%
Ethoxylated Alcohol Mixture	Proprietary	≤ 5%
Tetrapotassium Pyrophosphate	7320-34-5	≤ 5%
Sodium Citrate	68-04-2	≤ 5%
Fragrance	Proprietary	≤ 1%

Section 4: FIRST AID MEASURES

If Inhaled: If adverse effect occurs, move to fresh air.
If on skin: If adverse effect occurs, rinse skin with water.
If in eyes: Flush with plenty of water. After 5 minutes of flushing, remove contact lenses, if present. Continue flushing for at least 10 more minutes. If irritation persists seek medical attention.
If ingested: Drink plenty of water to dilute.

Section 5: FIRE FIGHTING MEASURES

This formula is stable, non-flammable, and will not burn. No special procedures necessary

Flammability: Non-flammable
Flash Point: Non-flammable

Suitable Extinguishing Media: Use Dry chemical, CO2, water spray or "alcohol" foam.
Extinguishing Media to Avoid High volume jet water.
Special Exposure Hazards: In event of fire created carbon oxides, oxides of phosphorus may be formed.
Special Protective Equipment: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See section 8 – personal protection.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Method for Clean Up: Dilute with water and rinse into sanitary sewer system or soak up with inert absorbent material.

Section 7: HANDLING AND STORAGE

Handling: Keep container tightly closed. Ensure adequate ventilation. Keep out of reach of children.

Storage: Keep in cool dry area.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values:	OSHA PEL	ACGIH TLV
2-butoxyethanol	TWA 50 ppm (240 mg/m^3)	20 ppm (97 mg/m^3)
Tetrapotassium Pyrophosphate		5 mg/m^3

Exposure Controls:
Eye Contact: Use protective glasses if splashing or spray-back is likely.
Respiratory: Use in well ventilated areas.
Skin Contact: Prolonged exposure or dermal sensitive individuals should use protective gloves.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Liquid	**Vapor Pressure:**	18 mmHg @20°C; 23.5 mmHg @26°C	
Odor:	No added odor; chemical/detergent	**Density:**	8.5 lb/gal;	
Specific Gravity:	1.020 ± 0.010	**Water Solubility:**	100%	
pH:	9.0 – 9.9 (Crystal)	**VOC composite Partial Pressure:**	TBD	
	8.0 – 8.9 (Safety Towel)	**VOC:**	CARB Method 310	5.8%*
Boiling Point:	~212°F (100.6°C)		SCAQMD Method 313	6.6%*
Freezing Point:	~ 16°F (-9°C)		** product must be diluted to meet air quality regulations*	
Nutrient Content:	Phosphorous: 0.28% Chloride: ~110 ppm	Sulfur: ~180 ppm Fluorine: ~90 ppm		

Section 10: STABILITY AND REACTIVITY

Stability: Stable
Materials to Avoid: None known
Hazardous Decomposition Products: Normal products of combustion - CO, CO2; Oxides of Phosphorous may occur.

Section 11: TOXICOLOGICAL INFORMATION

Acute Toxicity: Oral LD_{50} (rat) > 5 g/kg body weight
Dermal LD_{50} (rabbit) > 5 g/kg body weight
Toxicity calculated from ingredients using OECD SERIES ON TESTING AND ASSESSMENT Number 33

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Section 12: ECOLOGICAL INFORMATION

Hazard to wild mammals: Low, based on toxicology profile

Hazard to avian species: Low, based on toxicology profile

Hazard to aquatic organisms: Low, based on toxicology profile

Chemical Fate Information: Readily Biodegradable based on biodegradability profile of ingredients

Section 13: DISPOSAL CONSIDERATIONS

Appropriate Method for Disposal:

Unused Product: *Dilute with water to use concentration and dispose by sanitary sewer.

Used Product: *This product can enter into clarifiers and oil/water separators. Used product may be hazardous depending on the cleaning application and resulting contaminants.

Empty Containers: *Triple-rinse with water and offer for recycling if available in your area. Otherwise, dispose as non-hazardous waste.

*Dispose of used or unused product, and empty containers in accordance with the local, State, Provincial, and Federal regulations for your location. Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) / Canadian TDG:	Not Regulated		
IMO / IDMG:	Not classified as Dangerous		
ICAO/ IATA:	Not classified as Dangerous		
ADR/RID:	Not classified as Dangerous		
U.N. Number	Not Required	Proper Shipping Name:	Detergent Solution
Hazard Class:	Non-Hazardous	Marine Pollutant:	No

Section 15: REGULATORY INFORMATION

All components are listed on: EINECS, TSCA, DSL and AICS Inventory.
No components listed under: Clean Air Act Section 112; Clean Water Act 307 & 311

SARA Title III: 2-butoxyethanol is subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 as Category N230 – Certain Glycol Ethers.

RCRA Status: Not a hazardous waste CERCLA Status : No components listed

State Right To Know Lists

2-butoxyethanol Illinois, Massachusetts, New Jersey, Pennsylvania, Rhode Island

WHMIS Classification – Category D, subcategory 2B, eye irritant

Name	Toxic Substances List – Schedule 1 – CEPA (Canadian Environmental Protection Act)	NPRI Inventory
2-butoxyethanol	Yes	No

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by Canada's Controlled Products Regulation.

Section 16: OTHER INFORMATION

Questions about the information found on this MSDS should be directed to:
SUNSHINE MAKERS, INC. – TECHNICAL DEPARTMENT
15922 Pacific Coast Hwy. Huntington Beach, CA 92649
Phone: 800/228-0709 [8am-5pm Pacific time, Mon-Fri] *Fax:* 562/592-3830 *Email:* infoweb@simplegreen.com

National Stock Numbers & Industrial Numbers:

Crystal

Part Number	NSN	Size
19024	7930-01-418-1151	24 oz. spray (12/cs)
19128	7930-01-418-1152	1 Gal. (6/cs)
19005	7930-01-418-1153	5 Gal.
19015		15 Gal.
19055	7930-01-418-1155	55 Gal.
19275		275 Gal.

Safety Towels

Part Number	Size
13353	5 count pouch (50/cs)
13351	75-count canister (6/cs)

****International Part Numbers May Differ.**

DISCLAIMER: The information provided with this MSDS is furnished in good faith and without warranty of any kind. Personnel handling this material must make independent determinations of the suitability and completeness of information from all sources to assure proper use and disposal of this material and the safety and health of employees and customers. Sunshine Makers, Inc. assumes no additional liability or responsibility resulting from the use of, or reliance on this information.

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 MAP# 203 GRID# E4, G2 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 TRADE SECRET ☒ Yes ☐ No 206
If Subject to EPCRA, refer to instructions

COMMON NAME Trim Sol 207 EHS* ☐ Yes ☒ No 208

CAS# 209 *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211 RADIOACTIVE ☐ Yes ☒ No 212 CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 LARGEST CONTAINER 55 gal. drum 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☐ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
55 gal. drum	110 gal.		

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 DAYS ON SITE: 365 222
* If EHS, amount must be in pounds.

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ e. PLASTIC/NONMETALLIC DRUM ☐ i. FIBER DRUM ☐ m. GLASS BOTTLE ☐ q. RAIL CAR
☐ b. UNDERGROUND TANK ☐ f. CAN ☐ j. BAG ☐ n. PLASTIC BOTTLE ☐ r. OTHER
☐ c. TANK INSIDE BUILDING ☐ g. CARBOY ☐ k. BOX ☐ o. TOTE BIN
☒ d. STEEL DRUM ☐ h. SILO ☐ l. CYLINDER ☐ p. TANK WAGON 223

STORAGE PRESSURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	65.0 226	Severely hydrotreated Petroleum 227	☐ Yes ☒ No 228	64742-52-5 229
2	230	231	☐ Yes ☐ No 232	233
3	234	235	☐ Yes ☐ No 236	237
4	238	239	☐ Yes ☐ No 240	241
5	242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

B. Sutton
If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

MATERIAL SAFETY DATA SHEET
TRIM SOL®

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name TRIM SOL®

Material type General-purpose Emulsion

Classification/synonym(s) Chemical emulsion/Soluble oil

Product use Coolant and lubricant in metal removal processes

Manufacturer address MASTER CHEMICAL CORPORATION
501 West Boundary
Perrysburg, OH 43551-1200
419-874-7902

Emergency telephone 800-424-9300 **Fax number** 419-874-0684

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOM.	CAS #	%RANGE
Severely hydrotreated petroleum oil	5mg/m^3 (mist)	5mg/m^3 (mist)	none	64742-52-5 64742-58-1 64742-54-0	55-65

The exact chemical identities and percentages of the raw materials used in TRIM SOL® are trade secrets. This information is being withheld as provided for in the Occupational Safety and Health Administration's Hazard Communication Rule (29 CFR 1910.1200).

3. HAZARDS IDENTIFICATION

Emergency overview Blue green liquid
No immediate hazard
Fire may produce oxides of carbon, nitrogen, sulfur, and acid chlorides

POTENTIAL HEALTH EFFECTS

Acute effects of overexposure

Eye Contact	Transient irritation
Skin Contact	Possible defatting, nonirritant, nonsensitizer
Inhalation	Nontoxic
Ingestion	Nontoxic
Skin Absorption	Nontoxic

Chronic effects of overexposure None currently known

Product/Ingredients listed as carcinogen or potential carcinogen? **NTP Annual Report** No **IARC Monographs** No **OSHA** No

Signs and symptoms of exposure None

Medical conditions generally aggravated by exposure	None known

4. FIRST AID MEASURES

Emergency and first aid procedures	Eyes	Flush immediately with cool, clean water for at least 15 minutes
	Skin	Wash with mild soap and warm water
	Inhalation	Move to fresh air
	Ingestion	If large quantities are ingested, contact a physician

In every case get medical attention as required

5. FIRE FIGHTING MEASURES

Flash point (test method) >230°F (>110°C) (COC) **Flammable limits** Not determined

Extinguishing media As appropriate for the surrounding fire: water (flood with water), dry chemical, CO_2, or "alcohol" foam

Special fire fighting procedures None **Unusual fire and explosion hazards** None

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled Mop up or use dry absorbent

7. HANDLING AND STORAGE

Precautions to be taken in handling and storing Avoid contact with eyes. Avoid prolonged or repeated skin contact with the concentrate. Wash thoroughly after handling. Do not swallow.

Other precautions Refer to container labels.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection (Specify type) None

Ventilation	Local exhaust	Not normally required
	Mechanical (General)	General room ventilation should be sufficient
	Special	None
	Other	None

Protective gloves	None
Other protective equipment	None
Eye protection	Safety glasses
Exposure limits	None established by ACGIH or OSHA for product as whole Refer to Section 2

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue-green liquid
Odor	Mild, sweet

pH of concentrate	9.0 – 9.1
Typical operating pH (as range)	8.0 – 9.0
Boiling point (ASTM D86)	>208°F (>98°C)
Freezing point	0°F (-18°C)
Solubility in water	Soluble
Specific gravity (H_2O=1)	1.002
V.O.C. Content (EPA Method 24)	1.945 lbs/gal
Evaporation rate (butyl acetate=1)	0.012

10. STABILITY AND REACTIVITY

Stability	Stable	**Conditions to avoid**	None
Incompatibility (materials to avoid)	Strong acids and oxidizers		
Hazardous combustion or decomposition products	Thermal decomposition (fire) may produce oxides of carbon, nitrogen, sulfur, and acid chlorides		
Hazardous polymerization	Will not occur	**Conditions to avoid**	None

11. TOXICOLOGICAL INFORMATION

		Results	
Study	**Test Animal**	**Concentrate**	**10% Solution**
Acute inhalation toxicity	Rat	---	nontoxic LC_{50}>225mg/l
Acute oral toxicity	Rat	nontoxic LD_{50}>5g/kg	nontoxic
Acute dermal toxicity	Rabbit	nontoxic LD_{50}>2g/kg	nontoxic
Primary skin irritation	Rabbit	irritant PDI index=6.75	nonirritant PDI index=0.00
Primary eye irritation	Rabbit	irritant	nonirritant
Repeated insult patch	Human volunteers	---	possible defatting nonirritant nonsensitizer

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Waste disposal method Must comply with local, state, and federal regulations. If pre-treatment is needed, chemical treatment or ultrafiltration may be used. Contact Master Chemical Tech Line (1-800-537-3365) for assistance.

14. TRANSPORT INFORMATION

Department of Transportation	**DOT Hazard Class:** None TRIM SOL® is not classified as a hazardous material by DOT.

15. REGULATORY INFORMATION

Resource Conservation and Recovery Act	**EPA Hazardous Waste Number(s):** None TRIM SOL® is not classified as a hazardous waste by EPA.
Toxic Substances Control Act	All TRIM SOL® ingredients are listed on the TSCA Inventory of Chemical Substances.
Superfund Amendments and Reauthorization Act of 1986	TRIM SOL® does not contain any Section 302/304 Extremely Hazardous Substances or Section 313 Toxic Chemicals.

16. OTHER INFORMATION

	HMIS Hazard Index	**NFPA Rating**
	Concentrate	
(Health)	H = 1	H = 1
(Fire)	F = 0	F = 0
(Reactivity)	R = 0	R = 0
(Personal Protection)	PP = A (safety glasses)	Special hazards = none
	Typical Working Solution	
	H = 1	H = 1
	F = 0	F = 0
	R = 0	R = 0
	PP = A (safety glasses)	Special hazards = none

Key 0 = minimal 1 = slight 2 = moderate 3 = serious 4 = severe
This information is intended solely for the use of individuals trained in the particular system.

TRIM SOL® is a registered trademark of Master Chemical Corporation.
(C) 1963 – 2009 Master Chemical Corporation.

The information herein is given in good faith and believed current as of the date of this MSDS. Because conditions of use are beyond our control, no guarantee, representation, or warranty expressed or implied is made. Consult Master Chemical Corporation for further information.

Date of preparation December 21, 2009

San Bernardino County Fire Department • Hazardous Materials Division

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# B3 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 | TRADE SECRET ☐ Yes ☒ No 206 (If Subject to EPCRA, refer to instructions)

COMMON NAME Oxygen 207 | EHS* ☐ Yes ☒ No 208

CAS# 7782-44-7 209 | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☒ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 214 | LARGEST CONTAINER 250 ft³ 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
250 ft³	250 ft³		

UNITS* (Check one item only) ☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 (* If EHS, amount must be in pounds.) | DAYS ON SITE: 365 222

STORAGE CONTAINER
- ☐ a. ABOVE GROUND TANK
- ☐ b. UNDERGROUND TANK
- ☐ c. TANK INSIDE BUILDING
- ☐ d. STEEL DRUM
- ☐ e. PLASTIC/NONMETALLIC DRUM
- ☐ f. CAN
- ☐ g. CARBOY
- ☐ h. SILO
- ☐ i. FIBER DRUM
- ☐ j. BAG
- ☐ k. BOX
- ☒ l. CYLINDER
- ☐ m. GLASS BOTTLE
- ☐ n. PLASTIC BOTTLE
- ☐ o. TOTE BIN
- ☐ p. TANK WAGON
- ☐ q. RAIL CAR
- ☐ r. OTHER

223

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

Material Safety Data Sheet

Oxygen

Airgas

Section 1. Chemical product and company identification

Product name	: Oxygen
Supplier	: AIRGAS INC., on behalf of its subsidiaries 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
Product use	: Synthetic/Analytical chemistry.
Synonym	: Molecular oxygen; Oxygen molecule; Pure oxygen; O2; Liquid-oxygen-; UN 1072; UN 1073; Dioxygen; Oxygen USP, Aviator's Breathing Oxygen (ABO)
MSDS #	: 001043
Date of Preparation/Revision	: **6/16/2011.**
In case of emergency	: 1-866-734-3438

Section 2. Hazards identification

Physical state	: Gas.
Emergency overview	: DANGER! GAS: OXIDIZER. CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE. CONTENTS UNDER PRESURE. Do not puncture or incinerate container. May cause severe frostbite. LIQUID: OXIDIZER. CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE. Extremely cold liquid and gas under pressure. May cause severe frostbite. Do not puncture or incinerate container. Store in tightly-closed container. Avoid contact with combustible materials. Contact with rapidly expanding gases or liquids can cause frostbite.
Routes of entry	: Inhalation

Potential acute health effects

Eyes	: May cause eye irritation. Contact with rapidly expanding gas may cause burns or frostbite. Contact with cryogenic liquid can cause frostbite and cryogenic burns.
Skin	: May cause skin irritation. Contact with rapidly expanding gas may cause burns or frostbite. Contact with cryogenic liquid can cause frostbite and cryogenic burns.
Inhalation	: Respiratory system irritation after overexposure to high oxygen concentrations.
Ingestion	: Ingestion is not a normal route of exposure for gases. Contact with cryogenic liquid can cause frostbite and cryogenic burns.
Medical conditions aggravated by over-exposure	: Acute or chronic respiratory conditions may be aggravated by overexposure to this gas.

See toxicological information (Section 11)

Section 3. Composition, Information on Ingredients

Name	CAS number	% Volume	Exposure limits
Oxygen	7782-44-7	100	

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training.If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : None expected.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention.

Ingestion : As this product is a gas, refer to the inhalation section.

Section 5. Fire-fighting measures

Flammability of the product : Non-flammable.

Products of combustion : No specific data.

Fire hazards in the presence of various substances : Extremely flammable in the presence of the following materials or conditions: reducing materials, combustible materials and organic materials.

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Apply water from a safe distance to cool container and protect surrounding area. If involved in fire, shut off flow immediately if it can be done without risk.

Contains gas under pressure. Contact with combustible material may cause fire. This material increases the risk of fire and may aid combustion. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Eliminate all ignition sources if safe to do so. Do not touch or walk through spilled material. Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Handling : High pressure gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Store in tightly-closed container. Avoid contact with combustible materials. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Never allow any unprotected part of the body to touch uninsulated pipes or vessels that contain cryogenic liquids. Prevent entrapment of liquid in closed systems or piping without pressure relief devices. Some materials may become brittle at low temperatures and will easily fracture.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).
For additional information concerning storage and handling refer to Compressed Gas Association pamphlets P-1 Safe Handling of Compressed Gases in Containers and P-12 Safe Handling of Cryogenic Liquids available from the Compressed Gas Association, Inc.

Section 8. Exposure controls/personal protection

Engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

When working with cryogenic liquids, wear a full face shield.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Insulated gloves suitable for low temperatures

Personal protection in case of a large spill : Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.

Product name

Oxygen

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Molecular weight : 32 g/mole

Molecular formula : O2

Boiling/condensation point : -183°C (-297.4°F)

Melting/freezing point : -218.4°C (-361.1°F)

Critical temperature : -118.6°C (-181.5°F)

Vapor density : 1.105 (Air = 1) Liquid Density@BP: 71.23 lb/ft3 (1141 kg/m3)

Specific Volume (ft^3/lb) : 12.0482

Gas Density (lb/ft^3) : 0.083

Section 10. Stability and reactivity

Stability and reactivity : The product is stable.

Incompatibility with various substances : Extremely reactive or incompatible with the following materials: oxidizing materials, reducing materials and combustible materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

Other toxic effects on humans : No specific information is available in our database regarding the other toxic effects of this material to humans.

Specific effects

Carcinogenic effects : No known significant effects or critical hazards.

Mutagenic effects : No known significant effects or critical hazards.

Reproduction toxicity : No known significant effects or critical hazards.

Section 12. Ecological information

Aquatic ecotoxicity

Not available.

Environmental fate : Not available.

Environmental hazards : This product shows a low bioaccumulation potential.

Toxicity to the environment : Not available.

Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation.Return cylinders with residual product to Airgas, Inc.Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1072 UN1073	OXYGEN, COMPRESSED Oxygen, refrigerated liquid	2.2	Not applicable (gas).	 	**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg **Special provisions** A52
TDG Classification	UN1072 UN1073	OXYGEN, COMPRESSED Oxygen, refrigerated liquid	2.2	Not applicable (gas).	 	**Explosive Limit and Limited Quantity Index** 0.125 **ERAP Index** 3000 **Passenger Carrying Ship**

Oxygen						
						Index 50 **Passenger Carrying Road or Rail Index** 75 **Special provisions** 42
Mexico Classification	UN1072 UN1073	OXYGEN, COMPRESSED Oxygen, refrigerated liquid	2.2	Not applicable (gas).	 	-

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Section 15. Regulatory information

United States

U.S. Federal regulations : **TSCA 8(a) IUR**: Partial exemption
United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Oxygen
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Oxygen: Fire hazard, Sudden release of pressure, Delayed (chronic) health hazard

State regulations : **Connecticut Carcinogen Reporting**: This material is not listed.
Connecticut Hazardous Material Survey: This material is not listed.
Florida substances: This material is not listed.
Illinois Chemical Safety Act: This material is not listed.
Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.
Louisiana Reporting: This material is not listed.
Louisiana Spill: This material is not listed.
Massachusetts Spill: This material is not listed.
Massachusetts Substances: This material is listed.
Michigan Critical Material: This material is not listed.
Minnesota Hazardous Substances: This material is not listed.
New Jersey Hazardous Substances: This material is listed.
New Jersey Spill: This material is not listed.
New Jersey Toxic Catastrophe Prevention Act: This material is not listed.
New York Acutely Hazardous Substances: This material is not listed.
New York Toxic Chemical Release Reporting: This material is not listed.
Pennsylvania RTK Hazardous Substances: This material is listed.
Rhode Island Hazardous Substances: This material is not listed.

Canada

WHMIS (Canada) : Class A: Compressed gas.
Class C: Oxidizing material.

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is not listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

United States

Label requirements : GAS:
OXIDIZER.
CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
CONTENTS UNDER PRESURE.
Do not puncture or incinerate container.
May cause severe frostbite.
LIQUID:
OXIDIZER.
CONTACT WITH COMBUSTIBLE MATERIAL MAY CAUSE FIRE.
Extremely cold liquid and gas under pressure.
May cause severe frostbite.

Canada

Label requirements : Class A: Compressed gas.
Class C: Oxidizing material.

Hazardous Material Information System (U.S.A.) :

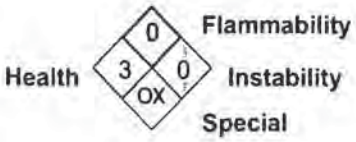
Health	0
Flammability	0
Physical hazards	0

liquid:

Health	3
Fire hazard	0
Reactivity	0
Personal protection	

National Fire Protection Association (U.S.A.) :

liquid:



Notice to reader

Oxygen

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

San Bernardino County Fire Department • Hazardous Materials Division

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# B3 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 | TRADE SECRET ☐ Yes ☒ No 206 (If Subject to EPCRA, refer to instructions)

COMMON NAME 207: Carbon Dioxide | EHS* ☐ Yes ☒ No 208

CAS# 209: 124-38-9 | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☒ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☒ b. LIQUID ☐ c. GAS 214 | LARGEST CONTAINER 200 ft³ 215

FED HAZARD CATEGORIES (Check all that apply) ☐ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
400 Lbs.	500 Lbs.		

UNITS* (Check one item only) ☐ a. GALLONS ☐ b. CUBIC FEET ☒ c. POUNDS ☐ d. TONS 221 (* If EHS, amount must be in pounds.) | DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM
☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO
☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☒ l. CYLINDER
☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON
☐ q. RAIL CAR ☐ r. OTHER 223

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

B. Sutton
If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

Material Safety Data Sheet

Carbon Dioxide

Airgas

Section 1. Chemical product and company identification

Product name	: Carbon Dioxide
Supplier	: AIRGAS INC., on behalf of its subsidiaries 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
Product use	: Synthetic/Analytical chemistry.
Synonym	: Carbonic Acid, Carbon Dioxide Liquid, Carbon Dioxide, Refrigerated Liquid, Carbonic Anhydride
MSDS #	: 001013
Date of Preparation/Revision	: **2/25/2009.**
In case of emergency	: 1-866-734-3438

Section 2. Hazards identification

Physical state	: Gas or Liquid.
Emergency overview	: WARNING! GAS: CONTENTS UNDER PRESURE. MAY CAUSE RESPIRATORY TRACT, EYE, AND SKIN IRRITATION. CAN CAUSE TARGET ORGAN DAMAGE. Do not puncture or incinerate container. Can cause rapid suffocation. LIQUID: MAY CAUSE RESPIRATORY TRACT, EYE, AND SKIN IRRITATION. CAN CAUSE TARGET ORGAN DAMAGE. Extremely cold liquid and gas under pressure. Can cause rapid suffocation. May cause severe frostbite. Do not puncture or incinerate container. Avoid contact with eyes, skin and clothing. May cause target organ damage, based on animal data. Wash thoroughly after handling. Keep container closed. Avoid breathing gas. Use with adequate ventilation. Contact with rapidly expanding gas, liquid, or solid can cause frostbite.
Target organs	: May cause damage to the following organs: lungs, cardiovascular system, skin, eyes, central nervous system (CNS).
Routes of entry	: Inhalation Dermal Eyes

Potential acute health effects

Eyes	: Moderately irritating to eyes. Contact with rapidly expanding gas may cause burns or frostbite. Contact with cryogenic liquid can cause frostbite and cryogenic burns.
Skin	: Moderately irritating to the skin. Contact with rapidly expanding gas may cause burns or frostbite. Contact with cryogenic liquid can cause frostbite and cryogenic burns.
Inhalation	: Moderately irritating to the respiratory system.
Ingestion	: Ingestion is not a normal route of exposure for gases. Contact with cryogenic liquid can cause frostbite and cryogenic burns.
Potential chronic health effects	: **CARCINOGENIC EFFECTS**: Not available. **MUTAGENIC EFFECTS**: Not available. **TERATOGENIC EFFECTS**: Not available.
Medical conditions aggravated by over-exposure	: Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (section 11)

Section 3. Composition, Information on Ingredients

Name	CAS number	% Volume	Exposure limits
Carbon Dioxide	124-38-9	100	**ACGIH TLV (United States, 1/2008).** STEL: 54000 mg/m³ 15 minute(s). STEL: 30000 ppm 15 minute(s). TWA: 9000 mg/m³ 8 hour(s). TWA: 5000 ppm 8 hour(s). **NIOSH REL (United States, 6/2008).** STEL: 54000 mg/m³ 15 minute(s). STEL: 30000 ppm 15 minute(s). TWA: 9000 mg/m³ 10 hour(s). TWA: 5000 ppm 10 hour(s). **OSHA PEL (United States, 11/2006).** TWA: 9000 mg/m³ 8 hour(s). TWA: 5000 ppm 8 hour(s). **OSHA PEL 1989 (United States, 3/1989).** STEL: 54000 mg/m³ 15 minute(s). STEL: 30000 ppm 15 minute(s). TWA: 18000 mg/m³ 8 hour(s). TWA: 10000 ppm 8 hour(s).

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training.If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion : As this product is a gas, refer to the inhalation section.

Section 5. Fire-fighting measures

Flammability of the product : Non-flammable.

Products of combustion : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Fire-fighting media and instructions : Use an extinguishing agent suitable for the surrounding fire.

Apply water from a safe distance to cool container and protect surrounding area. If involved in fire, shut off flow immediately if it can be done without risk.

Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : Immediately contact emergency personnel. Stop leak if without risk. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Handling : Wash thoroughly after handling. High pressure gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Keep container closed. Avoid contact with skin and clothing. Use with adequate ventilation. Avoid contact with eyes. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement. Never allow any unprotected part of the body to touch uninsulated pipes or vessels that contain cryogenic liquids. Prevent entrapment of liquid in closed systems or piping without pressure relief devices. Some materials may become brittle at low temperatures and will easily fracture.

Storage : Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).
For additional information concerning storage and handling refer to Compressed Gas Association pamphlets P-1 Safe Handling of Compressed Gases in Containers and P-12 Safe Handling of Cryogenic Liquids available from the Compressed Gas Association, Inc.

Section 8. Exposure controls/personal protection

Engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Personal protection

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

When working with cryogenic liquids, wear a full face shield.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Insulated gloves suitable for low temperatures

Personal protection in case of a large spill : Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product. Full chemical-resistant suit and self-contained breathing apparatus should be worn only by trained and authorized persons.

Product name

Carbon Dioxide

carbon dioxide

ACGIH TLV (United States, 1/2008).
STEL: 54000 mg/m³ 15 minute(s).
STEL: 30000 ppm 15 minute(s).
TWA: 9000 mg/m³ 8 hour(s).
TWA: 5000 ppm 8 hour(s).
NIOSH REL (United States, 6/2008).
STEL: 54000 mg/m³ 15 minute(s).
STEL: 30000 ppm 15 minute(s).
TWA: 9000 mg/m³ 10 hour(s).
TWA: 5000 ppm 10 hour(s).
OSHA PEL (United States, 11/2006).
TWA: 9000 mg/m³ 8 hour(s).
TWA: 5000 ppm 8 hour(s).
OSHA PEL 1989 (United States, 3/1989).
STEL: 54000 mg/m³ 15 minute(s).
STEL: 30000 ppm 15 minute(s).
TWA: 18000 mg/m³ 8 hour(s).
TWA: 10000 ppm 8 hour(s).

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Molecular weight : 44.01 g/mole
Molecular formula : C-O2
Boiling/condensation point : -78.6°C (-109.5°F)
Melting/freezing point : Sublimation temperature: -78.5°C (-109.3°F)
Critical temperature : 30.9°C (87.6°F)
Vapor pressure : 830 (psig)
Vapor density : 1.53 (Air = 1) Liquid Density@BP: Solid density = 97.5 lb/ft3 (1562 kg/m3)
Specific Volume (ft ³/lb) : 8.7719
Gas Density (lb/ft ³) : 0.114

Section 10. Stability and reactivity

Stability and reactivity : The product is stable.
Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure
carbon dioxide	LC50 Inhalation Gas.	Rat	470000 ppm	30 minutes

IDLH : 40000 ppm
Chronic effects on humans : May cause damage to the following organs: lungs, cardiovascular system, skin, eyes, central nervous system (CNS).
Other toxic effects on humans : No specific information is available in our database regarding the other toxic effects of this material to humans.

Specific effects

Carcinogenic effects : No known significant effects or critical hazards.
Mutagenic effects : No known significant effects or critical hazards.
Reproduction toxicity : No known significant effects or critical hazards.

Section 12. Ecological information

Aquatic ecotoxicity

Not available.

Toxicity of the products of biodegradation : not available

Environmental fate : Not available.

Environmental hazards : No known significant effects or critical hazards.

Toxicity to the environment : Not available.

Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation.Return cylinders with residual product to Airgas, Inc.Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1013 UN2187	CARBON DIOXIDE Carbon dioxide, refrigerated liquid	2.2	Not applicable (gas).		**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: 75 kg **Cargo aircraft** Quantity limitation: 150 kg
TDG Classification	UN1013 UN2187	CARBON DIOXIDE Carbon dioxide, refrigerated liquid	2.2	Not applicable (gas).		**Explosive Limit and Limited Quantity Index** 0.125 **Passenger Carrying Road or Rail Index** 75
Mexico Classification	UN1013 UN2187	CARBON DIOXIDE Carbon dioxide, refrigerated liquid	2.2	Not applicable (gas).		-

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Section 15. Regulatory information

United States

U.S. Federal regulations : **United States inventory (TSCA 8b):** This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: carbon dioxide
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: carbon dioxide: Sudden release of pressure, Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations : **Connecticut Carcinogen Reporting:** This material is not listed.
Connecticut Hazardous Material Survey: This material is not listed.
Florida substances: This material is not listed.
Illinois Chemical Safety Act: This material is not listed.
Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.
Louisiana Reporting: This material is not listed.
Louisiana Spill: This material is not listed.
Massachusetts Spill: This material is not listed.
Massachusetts Substances: This material is listed.
Michigan Critical Material: This material is not listed.
Minnesota Hazardous Substances: This material is not listed.
New Jersey Hazardous Substances: This material is listed.
New Jersey Spill: This material is not listed.
New Jersey Toxic Catastrophe Prevention Act: This material is not listed.
New York Acutely Hazardous Substances: This material is not listed.
New York Toxic Chemical Release Reporting: This material is not listed.
Pennsylvania RTK Hazardous Substances: This material is listed.
Rhode Island Hazardous Substances: This material is not listed.

Canada

WHMIS (Canada) : Class A: Compressed gas.

CEPA Toxic substances: This material is listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is not listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

United States

Label requirements : GAS:
CONTENTS UNDER PRESURE.
MAY CAUSE RESPIRATORY TRACT, EYE, AND SKIN IRRITATION.
CAN CAUSE TARGET ORGAN DAMAGE.
Do not puncture or incinerate container.
Can cause rapid suffocation.
LIQUID:
MAY CAUSE RESPIRATORY TRACT, EYE, AND SKIN IRRITATION.
CAN CAUSE TARGET ORGAN DAMAGE.
Extremely cold liquid and gas under pressure.
Can cause rapid suffocation.
May cause severe frostbite.

Canada

Carbon Dioxide

Label requirements : Class A: Compressed gas.

Hazardous Material Information System (U.S.A.) :

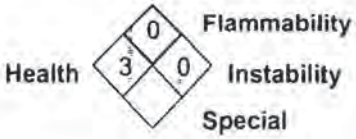
Health	*	1
Flammability		0
Physical hazards		0

liquid:

Health	3
Fire hazard	0
Reactivity	0
Personal protection	

National Fire Protection Association (U.S.A.) :

liquid:



Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

San Bernardino County Fire Department • Hazardous Materials Division

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# B3 204

II. CHEMICAL INFORMATION

CHEMICAL NAME 205 | TRADE SECRET ☐ Yes ☒ No 206 (If Subject to EPCRA, refer to instructions)

COMMON NAME Acetylene 207 | EHS* ☐ Yes ☒ No 208

CAS# 74-86-2 209 | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☒ a. PURE ☐ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☒ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 214 | LARGEST CONTAINER 145 ft³ 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☒ d. ACUTE HEALTH ☒ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
145 ft³	145 ft³		

UNITS* (Check one item only) ☐ a. GALLONS ☒ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 (If EHS, amount must be in pounds.) | DAYS ON SITE: 365 222

STORAGE CONTAINER
☐ a. ABOVE GROUND TANK ☐ b. UNDERGROUND TANK ☐ c. TANK INSIDE BUILDING ☐ d. STEEL DRUM
☐ e. PLASTIC/NONMETALLIC DRUM ☐ f. CAN ☐ g. CARBOY ☐ h. SILO
☐ i. FIBER DRUM ☐ j. BAG ☐ k. BOX ☒ l. CYLINDER
☐ m. GLASS BOTTLE ☐ n. PLASTIC BOTTLE ☐ o. TOTE BIN ☐ p. TANK WAGON
☐ q. RAIL CAR ☐ r. OTHER 223

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1 226	227	☐ Yes ☐ No 228	229
2 230	231	☐ Yes ☐ No 232	233
3 234	235	☐ Yes ☐ No 236	237
4 238	239	☐ Yes ☐ No 240	241
5 242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

Material Safety Data Sheet

Acetylene

Section 1. Chemical product and company identification

Product name	:	Acetylene
Supplier	:	AIRGAS INC., on behalf of its subsidiaries 259 North Radnor-Chester Road Suite 100 Radnor, PA 19087-5283 1-610-687-5253
Product use	:	Synthetic/Analytical chemistry.
Synonym	:	acetylen; acetylene ; ethine; ethyne; narcylen
MSDS #	:	001001
Date of Preparation/Revision	:	**5/11/2011.**
In case of emergency	:	1-866-734-3438

Section 2. Hazards identification

Physical state	:	Gas.
Emergency overview	:	WARNING! FLAMMABLE GAS. MAY CAUSE FLASH FIRE. MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. CONTENTS UNDER PRESSURE. Keep away from heat, sparks and flame. Do not puncture or incinerate container. May cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container closed. Contact with rapidly expanding gases can cause frostbite.
Target organs	:	May cause damage to the following organs: lungs, upper respiratory tract, central nervous system (CNS).
Routes of entry	:	Inhalation

Potential acute health effects

Eyes	:	Contact with rapidly expanding gas may cause burns or frostbite.
Skin	:	Contact with rapidly expanding gas may cause burns or frostbite.
Inhalation	:	Acts as a simple asphyxiant.
Ingestion	:	Ingestion is not a normal route of exposure for gases

Potential chronic health effects

Chronic effects	:	May cause target organ damage, based on animal data.
Target organs	:	May cause damage to the following organs: lungs, upper respiratory tract, central nervous system (CNS).
Medical conditions aggravated by over-exposure	:	Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See toxicological information (Section 11)

Section 3. Composition, Information on Ingredients

Name	CAS number	% Volume	Exposure limits
Acetylene	74-86-2	100	**NIOSH REL (United States, 6/2009).** CEIL: 2662 mg/m³ CEIL: 2500 ppm

Section 4. First aid measures

No action shall be taken involving any personal risk or without suitable training.If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Eye contact : Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

Inhalation : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Ingestion : As this product is a gas, refer to the inhalation section.

Section 5. Fire-fighting measures

Flammability of the product : Flammable.

Auto-ignition temperature : 305°C (581°F)

Flash point : Closed cup: -18.15°C (-0.7°F).

Flammable limits : Lower: 2.5% Upper: 100%

Products of combustion : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Fire hazards in the presence of various substances : Extremely flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and oxidizing materials.

Fire-fighting media and instructions : In case of fire, use water spray (fog), foam or dry chemical.

In case of fire, allow gas to burn if flow cannot be shut off immediately. Apply water from a safe distance to cool container and protect surrounding area. If involved in fire, shut off flow immediately if it can be done without risk.

Contains gas under pressure. Flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (section 8). Shut off gas supply if this can be done safely. Isolate area until gas has dispersed.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : Immediately contact emergency personnel. Stop leak if without risk. Use spark-proof tools and explosion-proof equipment. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Section 7. Handling and storage

Handling : Use only with adequate ventilation. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. High pressure gas. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Keep container closed. Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.

Storage : Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Segregate from oxidizing materials. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Personal protection

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

The applicable standards are (US) 29 CFR 1910.134 and (Canada) Z94.4-93

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Personal protection in case of a large spill : Self-contained breathing apparatus (SCBA) should be used to avoid inhalation of the product.

Product name

Ethyne

NIOSH REL (United States, 6/2009).
CEIL: 2662 mg/m³
CEIL: 2500 ppm

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

Molecular weight : 26.04 g/mole

Molecular formula : C2-H2

Melting/freezing point : Sublimation temperature: -81.8°C (-115.2 to °F)

Critical temperature : 35.3°C (95.5°F)

Vapor pressure : 635 (psig)

Vapor density : 0.907 (Air = 1)

Specific Volume (ft ³/lb) : 14.7058

Gas Density (lb/ft ³) : 0.0691 (-80°C / -112 to °F)

Section 10. Stability and reactivity

Stability and reactivity : The product is stable.

Incompatibility with various substances : Extremely reactive or incompatible with the following materials: oxidizing materials.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization : Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Toxicity data

Chronic effects on humans : May cause damage to the following organs: lungs, upper respiratory tract, central nervous system (CNS).

Other toxic effects on humans : No specific information is available in our database regarding the other toxic effects of this material to humans.

Specific effects

Carcinogenic effects : No known significant effects or critical hazards.

Mutagenic effects : No known significant effects or critical hazards.

Reproduction toxicity : No known significant effects or critical hazards.

Section 12. Ecological information

Aquatic ecotoxicity

Not available.

Products of degradation : Products of degradation: carbon oxides (CO, CO_2) and water.

Environmental fate : Not available.

Environmental hazards : This product shows a low bioaccumulation potential.

Toxicity to the environment : Not available.

Section 13. Disposal considerations

Product removed from the cylinder must be disposed of in accordance with appropriate Federal, State, local regulation.Return cylinders with residual product to Airgas, Inc.Do not dispose of locally.

Section 14. Transport information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN1001	ACETYLENE, DISSOLVED	2.1	Not applicable (gas).		**Limited quantity** Yes. **Packaging instruction** **Passenger aircraft** Quantity limitation: Forbidden. **Cargo aircraft** Quantity limitation: 15 kg

Acetylene						
TDG Classification	UN1001	ACETYLENE, DISSOLVED	2.1	Not applicable (gas).		**Explosive Limit and Limited Quantity Index** 0 **Passenger Carrying Ship Index** 75 **Passenger Carrying Road or Rail Index** Forbidden **Special provisions** 38, 42
Mexico Classification	UN1001	ACETYLENE, DISSOLVED	2.1	Not applicable (gas).		-

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

Section 15. Regulatory information

United States

U.S. Federal regulations : **TSCA 8(a) IUR**: Partial exemption
United States inventory (TSCA 8b): This material is listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Ethyne
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Ethyne: Fire hazard, reactive, Sudden release of pressure, Immediate (acute) health hazard

Clean Air Act (CAA) 112 accidental release prevention - Flammable Substances: Acetylene

Clean Air Act (CAA) 112 regulated flammable substances: Ethyne

State regulations : **Connecticut Carcinogen Reporting**: This material is not listed.
Connecticut Hazardous Material Survey: This material is not listed.
Florida substances: This material is not listed.
Illinois Chemical Safety Act: This material is not listed.
Illinois Toxic Substances Disclosure to Employee Act: This material is not listed.
Louisiana Reporting: This material is not listed.
Louisiana Spill: This material is not listed.
Massachusetts Spill: This material is not listed.
Massachusetts Substances: This material is listed.
Michigan Critical Material: This material is not listed.
Minnesota Hazardous Substances: This material is not listed.
New Jersey Hazardous Substances: This material is listed.
New Jersey Spill: This material is not listed.
New Jersey Toxic Catastrophe Prevention Act: This material is not listed.
New York Acutely Hazardous Substances: This material is not listed.
New York Toxic Chemical Release Reporting: This material is not listed.
Pennsylvania RTK Hazardous Substances: This material is listed.

Rhode Island Hazardous Substances: This material is not listed.

Canada

WHMIS (Canada) : Class A: Compressed gas.
Class B-1: Flammable gas.
Class F: Dangerously reactive material.

CEPA Toxic substances: This material is not listed.
Canadian ARET: This material is not listed.
Canadian NPRI: This material is listed.
Alberta Designated Substances: This material is not listed.
Ontario Designated Substances: This material is not listed.
Quebec Designated Substances: This material is not listed.

Section 16. Other information

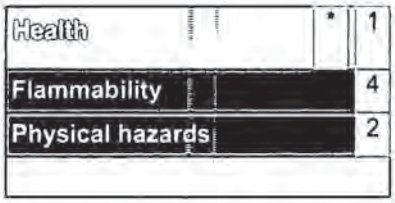
United States

Label requirements : FLAMMABLE GAS.
MAY CAUSE FLASH FIRE.
MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
CONTENTS UNDER PRESSURE.

Canada

Label requirements : Class A: Compressed gas.
Class B-1: Flammable gas.
Class F: Dangerously reactive material.

Hazardous Material Information System (U.S.A.) :



National Fire Protection Association (U.S.A.) :

Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION

☒ MATERIAL ☐ WASTE Page ___ of ___

I. FACILITY INFORMATION

BUSINESS NAME (Same as FACILITY NAME or DBA – Doing Business As) Full-Circle 3

FACILITY ID # F A 1 | MAP# 203 | GRID# H3 204

II. CHEMICAL INFORMATION

CHEMICAL NAME Propane 205 | TRADE SECRET ☐ Yes ☒ No 206 (If Subject to EPCRA, refer to instructions)

COMMON NAME Odorized Commercial Propane 207 | EHS* ☐ Yes ☒ No 208

CAS# 74-98-6 209 | *If EHS is "Yes", all amounts below must be in lbs.

HAZARDOUS MATERIAL TYPE (Check one item only) ☐ a. PURE ☒ b. MIXTURE ☐ c. WASTE 211 | RADIOACTIVE ☐ Yes ☒ No 212 | CURIES 213

PHYSICAL STATE (Check one item only) ☐ a. SOLID ☐ b. LIQUID ☒ c. GAS 214 | LARGEST CONTAINER 500 gal. tank 215

FED HAZARD CATEGORIES (Check all that apply) ☒ a. FIRE ☐ b. REACTIVE ☒ c. PRESSURE RELEASE ☐ d. ACUTE HEALTH ☐ e. CHRONIC HEALTH 216

AVERAGE DAILY AMOUNT 217	MAXIMUM DAILY AMOUNT 218	ANNUAL WASTE AMOUNT 219	STATE WASTE CODE 220
500 gal.	500 gal.		

UNITS* (Check one item only) ☒ a. GALLONS ☐ b. CUBIC FEET ☐ c. POUNDS ☐ d. TONS 221 (* If EHS, amount must be in pounds.) | DAYS ON SITE: 365 222

STORAGE CONTAINER (Check one item only) 223
- ☒ a. ABOVE GROUND TANK
- ☐ b. UNDERGROUND TANK
- ☐ c. TANK INSIDE BUILDING
- ☐ d. STEEL DRUM
- ☐ e. PLASTIC/NONMETALLIC DRUM
- ☐ f. CAN
- ☐ g. CARBOY
- ☐ h. SILO
- ☐ i. FIBER DRUM
- ☐ j. BAG
- ☐ k. BOX
- ☐ l. CYLINDER
- ☐ m. GLASS BOTTLE
- ☐ n. PLASTIC BOTTLE
- ☐ o. TOTE BIN
- ☐ p. TANK WAGON
- ☐ q. RAIL CAR
- ☐ r. OTHER

STORAGE PRESSURE ☐ a. AMBIENT ☒ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT 224

STORAGE TEMPERATURE ☒ a. AMBIENT ☐ b. ABOVE AMBIENT ☐ c. BELOW AMBIENT ☐ d. CRYOGENIC 225

	%WT	HAZARDOUS COMPONENT (For mixture or waste only)	EHS	CAS #
1	7.0 226	Ethane 227	☐ Yes ☒ No 228	74-84-0 229
2	5.0 230	Propylene 231	☐ Yes ☒ No 232	115-07-1 233
3	2.5 234	Butanes 235	☐ Yes ☒ No 236	106-97-8 237
4	0.5 238	Ethyl Mercaptan 239	☐ Yes ☒ No 240	75-08-1 241
5	242	243	☐ Yes ☐ No 244	245

If more hazardous components are present at greater than 1% by weight if non-carcinogenic, or > 0.1% by weight if carcinogenic, attach additional sheets of paper capturing the required information.

ADDITIONAL LOCALLY COLLECTED INFORMATION 246

Q. Sutter
If EPCRA, Please Sign Here

UPCF (Rev. 12/2007)

MATERIAL SAFETY DATA SHEET FOR ODORIZED PROPANE

1. Chemical Product and Company Identification

Product Name: Odorized Commercial Propane
Chemical Name: Propane
Chemical Family: Paraffinic Hydrocarbon
Formula: C_3H_8
Synonyms: Dimethylmethane, LP-Gas, Liquefied Petroleum Gas (LPG), Propane, Propyl Hydride

Name & Address:
AmeriGas Propane, L.P.
P. O. Box 965
Valley Forge, PA. 19482

Transportation Emergency Number:
CHEMTREC 1-800-424-9300

For General Information, Call:
1-610-337-1000, Safety Dept.

2. Composition / Information on Ingredients

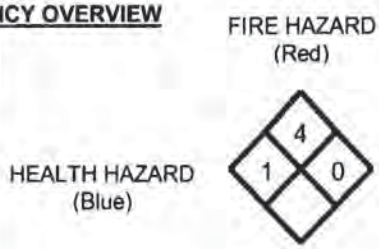
INGREDIENT NAME /CAS NUMBER	PERCENTAGE	OSHA PEL	ACGIH TLV
Propane / 74-98-6	87.5 -100		Simple asphyxiant
Ethane / 74-84-0	0 - 7.0	1,000 ppm	Simple asphyxiant
Propylene / 115-07-1	0 - 5.0		Simple asphyxiant
Butanes / 106-97-8	0 - 2.5		Simple asphyxiant
Ethyl Mercaptan / 75-08-1	0 - 50 ppm	0.5 ppm	0.5 ppm

WARNING: The intensity of the chemical odorant (e.g., ethyl mercaptan) may "fade" or diminish due to chemical oxidation, adsorption or absorption. Individuals with nasal perception problems may not be able to smell the odorant. Leaking propane from underground gas lines may lose its odor as it passes through certain soils. No odorant is effective 100% of the time. Therefore, circumstances can exist when individuals are in the presence of leaking propane and not be alerted by the smell. Contact AmeriGas for more information about odor, propane gas detectors and other safety considerations associated with the handling, storage and use of propane.

3. Hazards Identification

EMERGENCY OVERVIEW

DANGER! Flammable liquefied gas under pressure. Keep away from heat, sparks, flame, and all other ignition sources. Vapor replaces oxygen available for breathing and may cause suffocation in confined spaces. Use only with adequate ventilation. Reliance upon detection of odor may not provide adequate warning of potentially hazardous concentrations. Vapor is heavier than air; may collect at low levels. Liquid can cause freeze burn similar to frostbite. Do not get liquid in eyes, on skin, or on clothing. Avoid breathing vapor. Keep service valve closed when not in use.



Minimal 0 Moderate 2 Severe 4
Slight 1 Serious 3 *(Ref. NFPA 704)

POTENTIAL HEALTH EFFECTS INFORMATION

ROUTES OF EXPOSURE:

Inhalation: Asphyxiation. Before suffocation could occur, the lower flammability limit of propane in air would be exceeded, possibly causing both an oxygen-deficient and explosive atmosphere. Exposure to concentrations >10% may cause dizziness. Exposure to atmospheres containing 19% or less oxygen will bring about unconsciousness without warning. Lack of sufficient oxygen may cause serious injury or death.
Eye Contact: Contact with liquid can cause freezing of tissue.
Skin Contact: Contact with liquid can cause frostbite.
Skin Absorption: None.
Ingestion: Ingestion is not expected to occur in normal use. However, liquid can cause freeze burn similar to frostbite.

CHRONIC EFFECTS: None.

CARCINOGENICITY: Propane is not listed by NTP, OSHA or IARC.

4. First Aid Measures

INHALATION: Individuals suffering from lack of oxygen should be removed to fresh air. If victim is not breathing, administer artificial respiration. If breathing is difficult, administer oxygen. Obtain immediate medical assistance.

EYE CONTACT: Gently flush eyes with lukewarm water. Obtain immediate medical assistance.

SKIN CONTACT: Remove saturated clothes, shoes and jewelry. Immerse affected area in lukewarm water not exceeding 105° F. Keep immersed. Obtain immediate medical assistance.

INGESTION: If swallowed, obtain immediate medical assistance.

5. Fire-Fighting Measures

FLASH POINT: -156°F (-104°C) **AUTOIGNITION**: 842°F (432°C)

IGNITION TEMPERATURE IN AIR: 920°F to 1120°F (493°C to 549°C)

FLAMMABLE LIMITS IN AIR (% by volume): Lower: 2.15% Upper: 9.6%

EXTINGUISHING MEDIA: Dry chemical, CO_2, water spray or fog for surrounding area. Do not attempt to extinguish fire until propane source is isolated.

SPECIAL FIRE-FIGHTING INSTRUCTIONS: Evacuate all unnecessary personnel from the area. Allow only properly trained and protected emergency response personnel in area. A NIOSH approved self-contained breathing apparatus may be required. If gas flow cannot be shut off, do not attempt to extinguish fire. Allow fire to burn itself out. Use high volume water supply to cool exposed pressure containers and nearby equipment. Approach a flame-enveloped container from the sides, never from the ends. Use extreme caution when applying water to a container that has been exposed to heat or flame for more than a short time. For uncontrollable fires and/or when flame is impinging on container, withdraw all personnel and evacuate vicinity immediately.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Propane is heavier than air and can collect in low areas. Flash back along a vapor trail is possible. Pressure in a container can build up due to heat; and, container may rupture suddenly and violently without warning if pressure relief devices fail to function properly. If flames are against the container, withdraw immediately on hearing a rising sound, if venting increases in volume or intensity or if there is discoloration of the container due to fire. Propane released from a properly functioning relief valve on an overheated container can also become ignited.

HAZARDOUS COMBUSTION PRODUCTS: None.

6. Accidental Release Measures

IF MATERIAL IS RELEASED OR SPILLED: Evacuate the immediate area. Eliminate any possible sources of ignition and provide maximum ventilation. Shut off source of propane, if possible. If leaking from container or valve, contact your supplier or AmeriGas immediately.

7. Handling and Storage

HANDLING PRECAUTIONS: Propane vapor is heavier than air and can collect in low areas that are without sufficient ventilation. Conduct system checks for leaks with a leak detector or solution, never with flame. Make certain the container service valve is shut off prior to connecting or disconnecting. If container valve does not operate properly, discontinue use and contact AmeriGas. Never insert an object (e.g., wrench, screwdriver, pry bar, etc.) into pressure relief valve or cylinder valve cap openings. Do not drop or abuse cylinders. Never strike an arc on a gas container or make a container part of an electrical circuit. See Section 16, "OTHER INFORMATION", for additional precautions.

STORAGE PRECAUTIONS: Store in a safe, authorized location (outside, detached storage is preferred) with adequate ventilation. Specific requirements are listed in NFPA 58, LP-GAS CODE. Isolate from heat and ignition sources. Containers should never be allowed to reach temperature exceeding 125°F (52°C). Isolate from combustible materials. Provide separate storage locations for other compressed and flammable gases. Propane containers should be separated from oxygen cylinders or other oxidizers by a minimum distance of 20 feet, or by a barrier of non-combustible material at least 5 feet high having a fire rating of at least 1/2 hour. Full and empty cylinders should be segregated. Keep cylinders in an upright position at all times so that each pressure relief valve communicates with the vapor space. Keep container valve closed and plugged or capped when not in use. Install protective caps when cylinders are not connected for use. Empty containers retain some residue and should be treated as if they were full.

8. Exposure Control / Personal Protection

ENGINEERING CONTROLS

Ventilation: Provide ventilation adequate to ensure propane does not reach a flammable mixture.

RESPIRATORY PROTECTION

General Use: None.

Emergency Use: If concentrations are high enough to warrant supplied-air or NIOSH self-contained breathing apparatus, then the atmosphere may be flammable (See Section 5). Appropriate precautions must be taken regarding flammability.

PROTECTIVE CLOTHING: Avoid skin contact with liquid propane because of possibility of freeze burn. Wear gloves and protective clothing that are impervious to the product for the duration of the anticipated exposure.

EYE PROTECTION: Safety glasses, goggles or face shields are recommended when handling cylinders.

OTHER PROTECTIVE EQUIPMENT: Safety shoes are recommended when handling cylinders.

9. Physical and Chemical Properties

BOILING POINT: @ 14.7 psia = -44° F (@1.00 atm.pressure = -42°C)
SPECIFIC GRAVITY OF VAPOR (Air = 1) at 60° F (15.56°C): 1.50
SPECIFIC GRAVITY OF LIQUID (Water = 1) at 60° F: 0.504
VAPOR PRESSURE: @ 70° F (20°C) = 127 psig; @ 105° F (45°C) = 210 psig; @ 130°F (55°C) = 287 psig
EXPANSION RATIO (From liquid to gas @ 14.7 psia): 1 to 270
SOLUBILITY IN WATER: Slight, 0.1 to 1.0%
APPEARANCE AND ODOR: A colorless and tasteless gas at normal temperature and pressure. An odorant (ethyl mercaptan) is added to provide a strong unpleasant odor. Should a propane-air mixture reach the lower limits of flammability, the ethyl mercaptan concentration will be approximately 0.5 ppm in air.

ODORANT WARNING: Odorant is added to aid in the detection of leaks. One common odorant is ethyl mercaptan, CAS No. 75-08-1. Odorant has a foul smell. The ability of people to detect odors varies widely. Also, the odor level can be reduced by certain chemical reactions with material in the propane system or when fugitive propane gas from underground leaks passes through certain soils. No odorant will be 100% effective in all circumstances. If the presence of the odorant is not obvious, notify AmeriGas immediately.

10. Stability and Reactivity

STABILITY: Stable.
Conditions to Avoid: Keep away from high heat, strong oxidizing agents and sources of ignition.
REACTIVITY:
Hazardous Decomposition Products: Under fire conditions, fumes, smoke, carbon monoxide, aldehydes and other decomposition products. In most applications where there is inadequate venting to the outside air, incomplete combustion will produce carbon monoxide (a toxic gas) and potentially develop concentrations that can create a serious health hazard.
Hazardous Polymerization: Will not occur.

11. Toxicological Information

Propane is non-toxic and is a simple asphyxiant. It has slight anesthetic properties. Higher concentrations may cause dizziness.

IRRITANCY OF MATERIAL: None.
SENSITIZATION TO MATERIAL: None
REPRODUCTIVE EFFECTS: None
MUTAGENICITY: None
TERATOGENICITY: None
SYNERGISTIC MATERIALS: None

12. Ecological Information

No adverse ecological effects are expected. Propane does not contain any Class I or Class II ozone-depleting chemicals (40 CFR Part 82). Propane is not listed as a marine pollutant by DOT (49 CFR Part 171).

13. Disposal Considerations

WASTE DISPOSAL METHOD: Do not attempt to dispose of residual or unused product in the container; return it to your supplier or contact AmeriGas for safe disposal. Residual product within a process system may be burned at a controlled rate if a suitable burning unit is available on site, and is done in accordance with federal, state and local regulations.

14. Transport Information

DOT SHIPPING NAME: Liquefied Petroleum Gas
IDENTIFICATION NUMBER: UN 1075
IMO SHIPPING NAME: Propane
IMO IDENTIFICATION NUMBER: UN 1978
HAZARD CLASS: 2.1 (Flammable Gas)
PRODUCT RQ: None
SHIPPING LABEL (S): Flammable Gas
PLACARD (WHEN REQUIRED): Flammable Gas
SPECIAL SHIPPING INFORMATION: Container must be transported in a well-ventilated vehicle, secured, and in a position such that the pressure relief device is in communication with the vapor space.

15. Regulatory Information

The following information concerns U.S. Federal regulatory requirements potentially applicable to this product. Not all such requirements are identified. Users of this product are responsible for their own regulatory compliance on a federal, state [provincial] and local level.

U.S. FEDERAL REGULATIONS

Environmental Protection Agency (EPA)

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) - 40 CFR Parts 117 and 302

Reportable Quantity (RQ): None

Superfund Amendment and Reauthorization Act (SARA)

- Sections 302/304: Relates to emergency planning on threshold planning quantities (TPQ) and release reporting based on reportable quantities (RQ) of EPA's extremely hazardous substances (40 CFR Part 355).

  Extremely Hazardous Substances: None **Threshold Planning Quantity (TPQ):** None

- Sections 311/312: Relates to submission of material safety data sheets (MSDSs) and chemical inventory reporting with identification of EPA-defined hazard classes (40 CFR Part 370). The hazard classes for this product are:
  IMMEDIATE: No **PRESSURE:** Yes **DELAYED:** No **REACTIVITY:** No **FLAMMABLE:** Yes

- Section 313: Relates to submission of annual reports of release of toxic chemicals that appear in 40 CFR Part 372. Propane does not require reporting under Section 313.

Toxic Substance Control Act (TSCA)

Propane is listed on the TSCA inventory.

Occupational Safety and Health Administration (OSHA)

The following 29 CFR Parts may apply to propane:

29 CFR 1910.110: *Storage and Handling of Liquefied Petroleum Gases*
29 CFR 1910.119: *Process Safety Management of Highly Hazardous Chemicals*
29 CFR 1910.1200: *Hazardous Communications*

Food and Drug Administration (FDA)

21 CFR 184.1655: Generally recognized as safe (GRAS) as a direct human food ingredient when used as a propellant, aerating agent and gas.

16. Other Information

SPECIAL PRECAUTIONS: Use piping and equipment adequately designed to withstand pressure to be encountered. NFPA 58, LP-GAS CODE and OSHA 29 CFR 1910.10 require that all persons employed in handling LP-gases be trained in proper handling and operating procedures, which the employer shall document. Contact your propane supplier or AmeriGas to arrange for the required training. Allow only trained and qualified persons to install and service propane containers and systems.

ISSUE INFORMATION

Issue Date: December 2002 **Supersedes Date: April 2002**
Issued By: Director of Safety **Phone Number: 1-610-337-7000**

This material safety data sheet and the information it contains is offered to you in good faith as accurate. This Supplier does not manufacture this product, but is a supplier of the product that is independently produced by others. Much of the information contained in this data sheet was received from sources outside our Company. To the best of our knowledge this information is accurate, but this Supplier does not guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely, comply with all applicable laws and regulations and to assume the risks involved in the use of this product.

NO WARRANTY OR MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSES, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OF COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

San Bernardino County Fire Department • Hazardous Materials Division

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BUSINESS EMERGENCY/CONTINGENCY PLAN COVER SHEET

I. IDENTIFICATION

For Dept Use Only – Log In/Date Stamp

RECEIVED
MAR 08 2012
S.B. CO. FIRE DEPT.

FACILITY ID # F A

BUSINESS NAME (Same as FACILITY NAME or DBA): Full Circle

BUSINESS SITE ADDRESS: 4831 Newton Rd | CITY: Yucca Valley | ZIPCODE: 92284

II. SUBMISSION CHECKLIST

(Complete this Section if submitting an entire Business Emergency/Contingency Plan whether new or revised)

Submission Checklist ☒

- ☐ Business Activities Form
- ☐ Business Owner/Operator Identification Form
- ☐ Supplemental Emergency Contact Page
- ☐ Emergency Response Plans and Procedures
- ☐ Hazardous Materials Inventory Summary Form for the facility listing materials (including wastes) by item number
- ☐ One Hazardous Materials Inventory Form for each hazardous material (including wastes) which meet reporting criteria
- ☐ Material Safety Data Sheets attached to the inventory form of each material not listed in Appendix I
- ☐ Facility map (using grid form provided) consisting of all required features including the location of each inventoried item
- ☐ Site map (using grid form provided) consisting of all required features including surrounding facilities and areas.
- ☐ Area map - photocopied city map with location of site indicated
- ☐ Owner/Operator has signed and dated the plan and all required individual pages of the plan
- ☐ Submit the original and 1 copy to the Hazardous Materials Division. One is for distribution to the local fire jurisdiction
- ☐ ***Retain one copy of the business emergency/contingency plan at the facility.***

III. UPDATE/CERTIFICATION

(Complete this Section if submitting a partial update or re-certifying an existing Plan)

Check the appropriate boxes below and sign the certification statement. Submit 2 copies of all update information.

- ☐ Please incorporate the following into my Business Emergency/Contingency Plan
  - ☐ New Business Owner/Operator Identification Form
  - ☐ New Inventory Forms and new Inventory Summary Form (and maps, if affected)
  - ☐ New Supplemental Emergency Contact Page
- ☐ Other: _____

Brief explanation of changes: _____

- ☒ There have been no changes to the inventory. In place of submitting the annual inventory, I hereby attest to all of the following:
  - The information contained in the inventory most recently submitted to the CUPA is complete, accurate and up to date.
  - There has been no change in the quantity, storage, or handling of hazardous materials (including waste) reported in the most recently submitted inventory.
  - No hazardous materials (including waste) subject to inventory requirements are being handled that are not listed on the most recently submitted inventory.
  - This certification is not being made to meet annual inventory submission requirements of EPCRA. (EPCRA requires complete annual submission)

IV. SIGNATURE

(Complete this Section for all submissions)

Certification - Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and believe the information is true, accurate and complete.

SIGNATURE OF OWNER/OPERATOR	DATE	NAME OF DOCUMENT PREPARER
[signature]	3-5-12	Russell Smith
NAME OF SIGNER (print): Walt Smith		TITLE OF SIGNER (print): Owner

ENTERED
MAR 26 2012

FD SENT
MAR 12 2012

San Bernardino Co y Fire Department • Hazardous M rials Division

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BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID # F A 9 4 4 1	1	EPA ID # (Hazardous Waste Only) CAL000212349 2
BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) Full - Circle		3
BUSINESS SITE ADDRESS 4831 Newton Road		103
BUSINESS SITE CITY Yucca Valley	104	CA ZIP CODE 92284 105

II. ACTIVITIES DECLARATION

Does your facility...	If Yes, please complete these pages of the UPCF*....	
A. HAZARDOUS MATERIALS Have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☒ YES ☐ NO 4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
B. REGULATED SUBSTANCES Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release Prevention Program (CalARP)?	☐ YES ☒ NO 4a	Coordinate with your local agency responsible for CalARP.
C. UNDERGROUND STORAGE TANKS (USTs) Own or operate underground storage tanks?	☐ YES ☒ NO 5	UST FACILITY UST TANK
. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs) Own or operate ASTs above these thresholds: Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	☐ YES ☒ NO 8	NO FORM REQUIRED TO CUPAs
E. HAZARDOUS WASTE Generate hazardous waste?	☒ YES ☐ NO 9	EPA ID NUMBER – provide at the top of this page
Recycle more than 100 kg/month of excluded or exempted recyclable materials (per CHSC 25143.2)?	☐ YES ☒ NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
Treat hazardous waste on-site?	☐ YES ☒ NO 11	ON-SITE HAZARDOUS WASTE TREATMENT – FACILITY ON-SITE HAZARDOUS WASTE TREATMENT – UNIT
Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☒ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE
Consolidate hazardous waste generated at a remote site?	☐ YES ☒ NO 13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION
Need to report the closure/removal of a tank that was classified as containing hazardous waste and cleaned on-site?	☐ YES ☒ NO 14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION
Generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of Federal RCRA hazardous waste; or generate in any single calendar month, or accumulate at any time 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials ntaminated with RCRA acutely hazardous waste.	☐ YES ☒ NO 14a	Obtain Federal EPA ID Number, file Biennial Report (EPA Form 8700-13A/B), and satisfy requirements for RCRA Large Quantity Generator.
Household Hazardous Waste (HHW) Collection site?	☐ YES ☒ NO 14b	See CUPA for required forms.
F. LOCAL REQUIREMENTS		

*Unified Program Consolidated Forms

San Bernardino County Fire Department • Hazardous Materials Division

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BUSINESS EMERGENCY/CONTINGENCY PLAN COVER SHEET

I. IDENTIFICATION

For Dept Use Only – Log In/Date Stamp

RECEIVED
OCT 05 2011
S.B. CO. FIRE DEPT.

FACILITY ID # F A 9 4 4 1

BUSINESS NAME (Same as FACILITY NAME or DBA) 3

Full-Circle

BUSINESS SITE ADDRESS	CITY	ZIPCODE
4931 Newton Rd.	Yucca Valley	92284

II. SUBMISSION CHECKLIST

(Complete this Section if submitting an entire Business Emergency/Contingency Plan whether new or revised)

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- ☒ Site map (using grid form provided) consisting of all required features including surrounding facilities and areas.
- ☒ Area map - photocopied city map with location of site indicated
- ☒ Owner/Operator has signed and dated the plan and all required individual pages of the plan
- ☒ Submit the original and 1 copy to the Hazardous Materials Division. One is for distribution to the local fire jurisdiction
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III. UPDATE/CERTIFICATION

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Check the appropriate boxes below and sign the certification statement. Submit 2 copies of all update information.

☒ Please incorporate the following into my Business Emergency/Contingency Plan

- ☒ New Business Owner/Operator Identification Form
- ☒ New Inventory Forms and new Inventory Summary Form (and maps, if affected)
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☐ Other: _____

Brief explanation of changes: _____

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- This certification is **not** being made to meet annual inventory submission requirements of EPCRA. **(EPCRA requires complete annual submission)**

IV. SIGNATURE

(Complete this Section for all submissions)

Certification - Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and believe the information is true, accurate and complete.

SIGNATURE OF OWNER/OPERATOR	DATE	NAME OF DOCUMENT PREPARER
W. Smith	9-30-11	Russ FD SENT

NAME OF SIGNER (print)	TITLE OF SIGNER (print)
WALTER SMITH	Owner

ENTERED
OCT 07 2011

OCT 07 2011

135

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BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID #	EPA ID # (Hazardous Waste Only)
FA 9441 (1)	CAL000212349 (2)

BUSINESS NAME (Same as Facility Name of DBA-Doing Business As) (3)
Full - Circle

BUSINESS SITE ADDRESS (103)
4831 Newton Road

BUSINESS SITE CITY (104)		ZIP CODE (105)
Yucca Valley	CA	92284

II. ACTIVITIES DECLARATION

Does your facility...	If Yes, please complete these pages of the UPCF*....	
A. HAZARDOUS MATERIALS Have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?	☒ YES ☐ NO 4	HAZARDOUS MATERIALS INVENTORY – CHEMICAL DESCRIPTION
B. REGULATED SUBSTANCES Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release Prevention Program (CalARP)?	☐ YES ☒ NO 4a	Coordinate with your local agency responsible for CalARP.
C. UNDERGROUND STORAGE TANKS (USTs) Own or operate underground storage tanks?	☐ YES ☒ NO 5	UST FACILITY UST TANK
D. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs) Own or operate ASTs above these thresholds: Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.	☐ YES ☒ NO 8	NO FORM REQUIRED TO CUPAs
E. HAZARDOUS WASTE Generate hazardous waste?	☒ YES ☐ NO 9	EPA ID NUMBER – provide at the top of this page
Recycle more than 100 kg/month of excluded or exempted recyclable materials (per CHSC 25143.2)?	☐ YES ☒ NO 10	RECYCLABLE MATERIALS REPORT (one per recycler)
Treat hazardous waste on-site?	☐ YES ☒ NO 11	ON-SITE HAZARDOUS WASTE TREATMENT – FACILITY ON-SITE HAZARDOUS WASTE TREATMENT – UNIT
Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☒ NO 12	CERTIFICATION OF FINANCIAL ASSURANCE
Consolidate hazardous waste generated at a remote site?	☐ YES ☒ NO 13	REMOTE WASTE / CONSOLIDATION SITE ANNUAL NOTIFICATION
Need to report the closure/removal of a tank that was classified as containing hazardous waste and cleaned on-site?	☐ YES ☒ NO 14	HAZARDOUS WASTE TANK CLOSURE CERTIFICATION
Generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of Federal RCRA hazardous waste; or generate in any single calendar month, or accumulate at any time 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acutely hazardous waste.	☐ YES ☒ NO 14a	Obtain Federal EPA ID Number, file Biennial Report (EPA Form 8700-13A/B), and satisfy requirements for RCRA Large Quantity Generator.
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F. LOCAL REQUIREMENTS		

*Unified Program Consolidated Forms

CUPA

San Bernardino County Fire Department • Hazardous Materials Division

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INVENTORY SUMMARY FORM (REQUIRED)

I. FACILITY IDENTIFICATION

FACILITY ID # F A (This number is on your CUPA permit.)

BUSINESS NAME (Same as FACILITY NAME or DBA)
FULL CIRCLE

FACILITY ADDRESS 103: 4831 NEWTON RD.

CITY 104: YUCCA VALLEY

II. INVENTORY SUMMARY

Item #	Name of Hazardous Material or Waste	Maximum Quantity	Size of Largest Container	Unit of Measure
3.	*Lubricating Oil (Example Only)*	*555*	*500*	*Gallon*
1	USED COOLANT DILUTION (TRIMSOL)	480	480	GAL.
2	WASTE OIL	165	55	GAL.
3	VACTRA OIL #2	110	55	GAL.
4	LAPPING VEHICLE OIL #3	110	55	GAL.
5	TRIMSOL COOLANT CONCENTRATE	110	55	GAL
6	CO_2 (CARBON DIOXIDE)	3400	200	FT^3
7	O_2 (OXYGEN)	282	282	FT^3
8	STODDARD'S SOLVENT (MINERAL SPIRITS)	110	55	GAL

Summarize the business plan inventory on this page. Place this summary in front of inventory section of the Business Plan. Make copies of this sheet as necessary. Reminder: You need not report hazardous materials with a maximum quantity of less than 55 gallons, 500 pounds, 200 cubic feet , or the threshold planning quantity of an extremely hazardous substance. However, hazardous wastes, Category 1 and 2 pesticides, and explosives are reportable at any quantity.

III. SIGNATURE- EPCRA Facilities MUST sign the bottom of each individual attached inventory form.

SIGNATURE OF OWNER/OPERATOR	NAME OF SIGNER (print) 136	DATE 134
W. Smith	WALTER SMITH, PRES.	1-6-05

Inventory Summary Page 1 of 1

This inventory was replaced by BP inventory received 10/05/11 YM

CUPA

San Bernardino County Fire Department • Hazardous Materials Division
620 South "E" Street, San Bernardino, CA 92415-0153 • PHONE: (909) 386-8401 FAX: (909) 386-8460
www.sbcfire.org

BUSINESS EMERGENCY/CONTINGENCY PLAN COVER SHEET

I. IDENTIFICATION

For Dept Use Only - Log In/Date Stamp

RECEIVED
JAN 10 2005
COUNTY FIRE DEPARTMENT
HAZARDOUS MATERIALS

FACILITY ID # F A 9441

BUSINESS NAME (Same as FACILITY NAME or DBA)

FULL CIRCLE

BUSINESS SITE ADDRESS	CITY	ZIPCODE
4831 NEWTON RD	YUCCA VALLEY	92284

II. SUBMISSION CHECKLIST

(Complete this Section if submitting an entire business emergency/contingency plan whether new or revised)

Submission Checklist ☒

Items with an ' * ' are considered "Inventory" under State disclosure laws

- ☒ * Business Activities Form
- ☒ * Business Owner/Operator Identification Form
- ☒ * Supplemental Emergency Contact Page
- ☒ Emergency Response Plans and Procedures
- ☒ * Hazardous Materials Inventory Summary Form for the facility listing materials (including wastes) by item number.
- ☒ * One Hazardous Materials Inventory Form for each hazardous material (including wastes) which meet reporting criteria
- ☒ * Material Safety Data Sheets attached to the inventory form of each material not listed in Appendix I.
- ☒ * Facility map (using grid form provided) consisting of all required features including the location of each inventoried item.
- ☒ Site map (using grid form provided) consisting of all required features including surrounding facilities and areas.
- ☒ Area map - photocopied city map with location of site indicated
- ☒ Owner/Operator has signed and dated the plan and all required individual pages of the plan.
- ☒ Submit 2 copies to the Hazardous Materials Division. One is for distribution to the local fire jurisdiction.
- ☒ ***Retain one copy of the business emergency/contingency at the facility.***

III. UPDATE/CERTIFICATION

(Complete this Section if submitting a partial update or re-certifying an existing Plan)

Check the appropriate boxes below and sign the certification statement. Submit 2 copies of all update information.

☐ Please incorporate the following into my business emergency/contingency plan.

- ☐ New Business Owner/Operator Identification Form
- ☐ New Inventory Forms and new Inventory Summary Form (and maps, if affected).
- ☐ New Supplemental Emergency Contact Page.

☐ Other: _____

Brief explanation of changes: _____

☐ There have been no changes to the inventory. In place of submitting the annual inventory, I hereby attest to all of the following:

- The information contained in the inventory most recently submitted to the CUPA is complete, accurate and up to date.
- There has been no change in the quantity, storage, or handling of hazardous materials (including waste) reported in the most recently submitted inventory.
- No hazardous materials (including waste) subject to inventory requirements are being handled that are not listed on the most recently submitted inventory.
- This certification is not being made to meet annual inventory submission requirements of EPCRA. (EPCRA requires complete annual submission)

IV. SIGNATURE

(Complete this Section for all submissions)

Certification - Based on my inquiry of those individuals responsible for obtaining the information, I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and believe the information is true, accurate and complete.

SIGNATURE OF OWNER/OPERATOR	DATE	NAME OF DOCUMENT PREPARER
[signature]	1-7-05	RALPH S. SMITH

NAME OF SIGNER (print)	TITLE OF SIGNER (print)
WALTER SMITH	PRESIDENT

FD SENT 1/11/05

FULL CIRCLE

Ralph Smith

FULL-CIRCLE, INC.
1299 Lawrence Drive
Newbury Park, California 91320 U.S.A.
Telephone: 805/498-6616
Fax: 805/499-2867

CUPA

San Bernardino County Fire Department • Hazardous Materials Division
620 South "E", San Bernardino, CA 92415-0153 • (909) 386-8401 FAX (909) 386-8460

BUSINESS ACTIVITIES

I. FACILITY IDENTIFICATION

FACILITY ID # F A [redacted]

BUSINESS NAME (Same as FACILITY NAME or DBA): FULL CIRCLE

EPA ID # (Hazardous Waste Only): CAL000217349

BUSINESS ADDRESS: 4831 NEWTON RD

CITY: YUCCA VALLEY

ZIP CODE: 92284

II. ACTIVITIES DECLARATION

Does your facility...		If YES, please complete these portions of the application...
A. HAZARDOUS MATERIALS		
1. Have onsite (for any purpose) hazardous materials at or above 55 gallons for liquids, 500 pounds for solids or 200 cubic feet for compressed gases; or the applicable Federal threshold quantity for an extremely hazardous substance; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70; or handle ANY amount of Class 1 or 2 explosives; or ANY amount Category I or II pesticides.	☒ YES ☐ NO	**BUSINESS EMERGENCY/CONTINGENCY PLAN** (Used in place of OES Form 2730 and 2731)
2. Have extremely hazardous substances above threshold planning quantities or hazardous substances in quantities greater than 10,000 lbs (except retail gas stations up to 75,000 gallons of gasoline or 100,000 gallons of diesel fuel in upgraded USTs) or otherwise subject to EPCRA 311-312 reporting requirements.	☐ YES ☒ NO	**BUSINESS EMERGENCY/CONTINGENCY PLAN** (Must file annually according to EPCRA instructions to meet EPCRA SARA Title III Tier 2 reporting requirements - see instructions, pg i.)
B. REGULATED SUBSTANCES Have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release Prevention Program (CalARP)?	☐ YES ☒ NO	**BUSINESS EMERGENCY/CONTINGENCY PLAN** (Used in place of OES Form 2730 and 2731) **CalARP REGISTRATION FORM** (See Section V of BP guidelines and forms)
C. UNDERGROUND STORAGE TANKS (USTs)		
1. Own or operate underground storage tanks?	☐ YES ☒ NO	**UST FACILITY** **UST TANK (Pages 1 and 2)** (One set per tank)
2. Intend to upgrade existing or install new USTs?	☐ YES ☒ NO	**UST FACILITY** **UST TANK (Pages 1 and 2)** (One set per tank) **UST INSTALLATION – CERTIFICATE OF COMPLIANCE** (one page per tank)
3. Need to report closing a UST?	☐ YES ☒ NO	**UST FACILITY** **UST TANK (Pages 1 and 2)** (One set per tank) **HAZARDOUS WASTE TANK CLOSURE CERTIFICATION**
D. ABOVE GROUND PETROLEUM STORAGE TANKS (ASTs) Store greater than 1320 gallons of petroleum products (new or used) in aboveground tanks or containers?	☐ YES ☒ NO	**IF YES, PREPARE AND MAINTAIN A SPILL PREVENTION CONTROL & COUNTERMEASURES PLAN (SPCC) TO ADDRESS RELEASES FROM ABOVEGROUND STORAGE OF PETROLEUM AT YOUR FACILITY.**
E. HAZARDOUS WASTE		
1. Generate ANY amount of hazardous waste?	☒ YES ☐ NO	**EPA ID NUMBER—provide at the top of this page** **BUSINESS EMERGENCY/CONTINGENCY PLAN** (Used in place of OES Form 2730 and 2731)
2. Recycle more than 100 kg/month of excluded or exempted recyclable materials (per CHSC §25143.2)?	☐ YES ☒ NO	**RECYCLABLE MATERIALS REPORT (Pages 1 and 2)**
3. Treat hazardous waste on site?	☐ YES ☒ NO	**ONSITE HAZARDOUS WASTE TRT - FACILITY** **ONSITE HAZARDOUS WASTE TRT - UNIT** (one per unit)
4. Treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?	☐ YES ☒ NO	**CERTIFICATION OF FINANCIAL ASSURANCE**
5. Consolidated hazardous waste generated at a remote site?	☐ YES ☒ NO	**REMOTE WASTE/CONSOLIDATED SITE ANNUAL NOTIFICATION**
6. Generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.	☐ YES ☒ NO	**IF YES, OBTAIN FEDERAL EPA ID NUMBER, FILE BIENNIEL REPORT (EPA FORM 8700-13A/B) WITH USEPA, AND SATISFY REQUIREMENTS FOR RCRA LARGE QUANTITY GENERATOR.**

Business Emergency/Contingency Plan Receipt

Mail to: FULL-CIRCLE, INC.
PO BOX 276
NEWBERRY SPRINGS, CA 91319

Site Address: FULL-CIRCLE, INC.
4831 NEWTON RD
YUCCA VALLEY, CA 92284

Service Request ID: SR0005368
Facility ID: FA0009441

The Business Emergency/Contingency Plan was received on January 10, 2005 by the Hazardous Materials Division.

For future reference, please note the following Business Emergency/Contingency Plan requirements:

1. The contents of this plan are subject to field verification and a current copy of this plan must be available on site.
2. This plan contains important information on preventing, responding to, and reporting releases of hazardous materials/waste. Employees are expected to be familiar with these portions of the plan.
3. The plan is available for public inspection through this Division, with the exception of substantiated trade secrets, the separate confidential emergency contact page, and maps specifying the precise storage locations of hazardous materials/wastes.
4. Two copies of the plan and/or update is required to be filed with this Division. The second copy will be forwarded to the local fire jurisdiction.
5. The annual deadline for submission of business plan inventory is March 1st. Please note that EPA does not allow EPCRA facilities to file a recertification in place of annual inventory. Also, this Division typically does not send individual notices of this statutory deadline, so please note the March 1st date for future annual submissions.

Within 30 days of any of the following events, an amendment to the Business Emergency/Contingency Plan must be filed:

1. A 100 percent or more increase in quantity of a previously disclosed item.
2. Any handling of a previously undisclosed hazardous material (including waste) required to be inventoried or elimination of a previously inventoried item.
3. Change of business address, business ownership, or business name.
4. Change of emergency contact information or other site conditions that may significantly affect emergency response.

For more information please consult the latest version of the San Bernardino County CUPA Business Emergency/Contingency Plan guidelines and forms, available through our website at www.sbcfire.org or by calling this office at (909) 386-8401.

APPENDIX E

Historical Research Documentation

Yucca Valley Property
Newton Lane
Yucca Valley, CA 92284

Inquiry Number: 7773517.5
September 26, 2024

The EDR-City Directory Image Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available business directory data at approximately five year intervals.

RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

Year	*Target Street*	*Cross Street*	*Source*
2020	☐	☐	Cole Information
	☐	☐	EDR Digital Archive
2017	☑	☑	Cole Information
2014	☑	☑	Cole Information
2010	☑	☑	Cole Information
2005	☑	☑	Cole Information
2000	☑	☑	Cole Information
1995	☑	☑	Cole Information
1992	☐	☑	Cole Information
1986	☐	☑	Haines Criss-Cross Directory
1980	☑	☑	Haines Criss-Cross Directory
1976	☑	☑	Haines Criss-Cross Directory
1971	☐	☐	Haines Criss-Cross Directory

FINDINGS

TARGET PROPERTY STREET

Newton Lane
Yucca Valley, CA 92284

Year	*CD Image*	*Source*	
NEWTON LN			
2020	-	EDR Digital Archive	Street not listed in Source
2017	pg A1	Cole Information	
2014	pg A3	Cole Information	
1992	-	Cole Information	Street not listed in Source
1986	-	Haines Criss-Cross Directory	Street not listed in Source
1980	pg A15	Haines Criss-Cross Directory	
1976	pg A17	Haines Criss-Cross Directory	
1971	-	Haines Criss-Cross Directory	Street not listed in Source
NEWTON ST			
2010	pg A5	Cole Information	
2005	pg A7	Cole Information	
2000	pg A9	Cole Information	
1995	pg A11	Cole Information	

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
SUN MESA DR			
2020	-	Cole Information	Street not listed in Source
2017	pg. A2	Cole Information	
2014	pg. A4	Cole Information	
2010	pg. A6	Cole Information	
2005	pg. A8	Cole Information	
2000	pg. A10	Cole Information	
1995	pg. A12	Cole Information	
1992	pg. A13	Cole Information	
1986	pg. A14	Haines Criss-Cross Directory	
1980	pg. A16	Haines Criss-Cross Directory	
1976	pg. A18	Haines Criss-Cross Directory	
1971	-	Haines Criss-Cross Directory	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
✓	-	Cole Information

NEWTON LN 2017

4878 BURRTEC WASTE & RECYCLING SERVICES
5390 ANDERSON, CARL G

Target Street	Cross Street	Source
-	✓	Cole Information

SUN MESA DR 2017

57761 DUDLEY, RON B

Target Street	Cross Street	Source
✓	-	Cole Information

NEWTON LN 2014

5390 ANDERSON, CARL

Target Street	Cross Street	Source
-	✓	Cole Information

SUN MESA DR 2014

57761 HENDERSON, NICHOLE

Target Street	Cross Street	Source
✓	-	Cole Information

NEWTON ST 2010

4828	BROTHERS TOWING OF YUCCA VLY
4878	WASTE MANAGEMENT INC
5316	OCCUPANT UNKNOWN,
5390	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
-	✓	Cole Information

SUN MESA DR 2010

57761 OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
✓	-	Cole Information

NEWTON ST 2005

4878 WASTE MANAGEMENT OF YUCCA VALLEY
5390 MAGNUSON, ALLAN E

Target Street	Cross Street	Source
-	✓	Cole Information

SUN MESA DR 2005

57761 ORTEGA, D

Target Street	Cross Street	Source
✓	-	Cole Information

NEWTON ST 2000

4828	CRAFTSMANS RV TRUCK & AUTO REPAIR
	NAPA AUTOCARE CENTER
	U HAUL CO INDEPENDENT DEALERS
4878	WASTE MANAGEMENT OF HI DESERT
5316	NEWMAN, LEON L

Target Street	Cross Street	Source
-	✓	Cole Information

SUN MESA DR 2000

57820 GRAHAM, KENNETH A

Target Street	Cross Street	Source
✓	-	Cole Information

NEWTON ST 1995

4828 CRAFTSMANS RV TRUCK & AUTO

Target Street	Cross Street	Source
-	✓	Cole Information

SUN MESA DR 1995

22958 DICKSON CONSTRUCTION
57957 LUGO, LEO

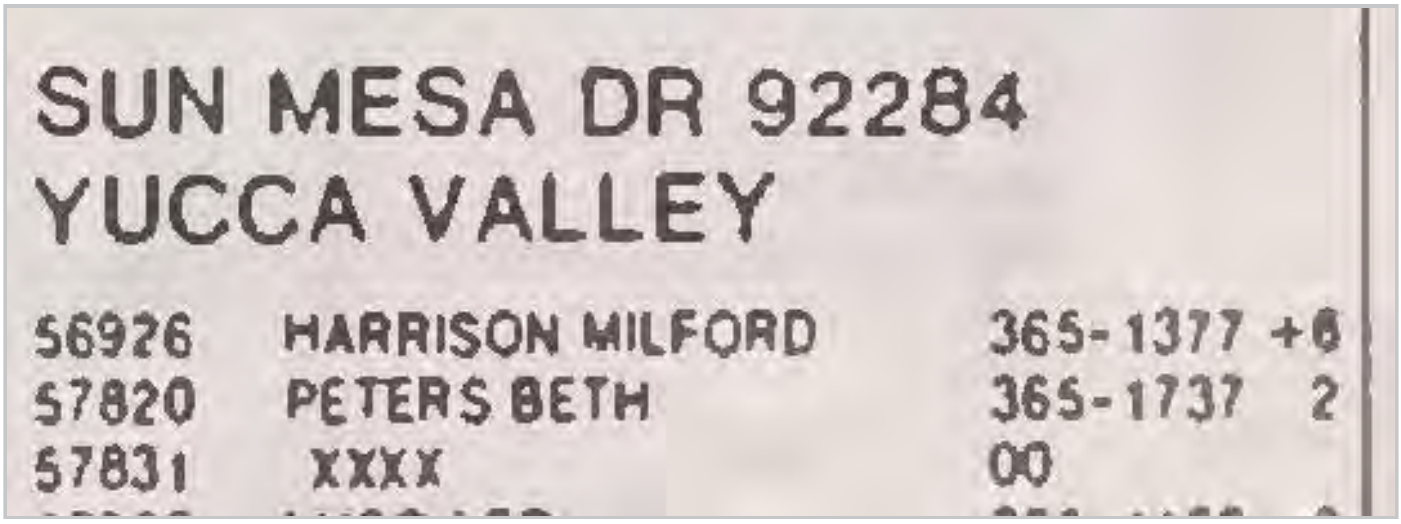
Target Street	Cross Street	Source
-	✓	Cole Information

SUN MESA DR 1992

57820 GRAHAM, KENNETH A

Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

SUN MESA DR 1986

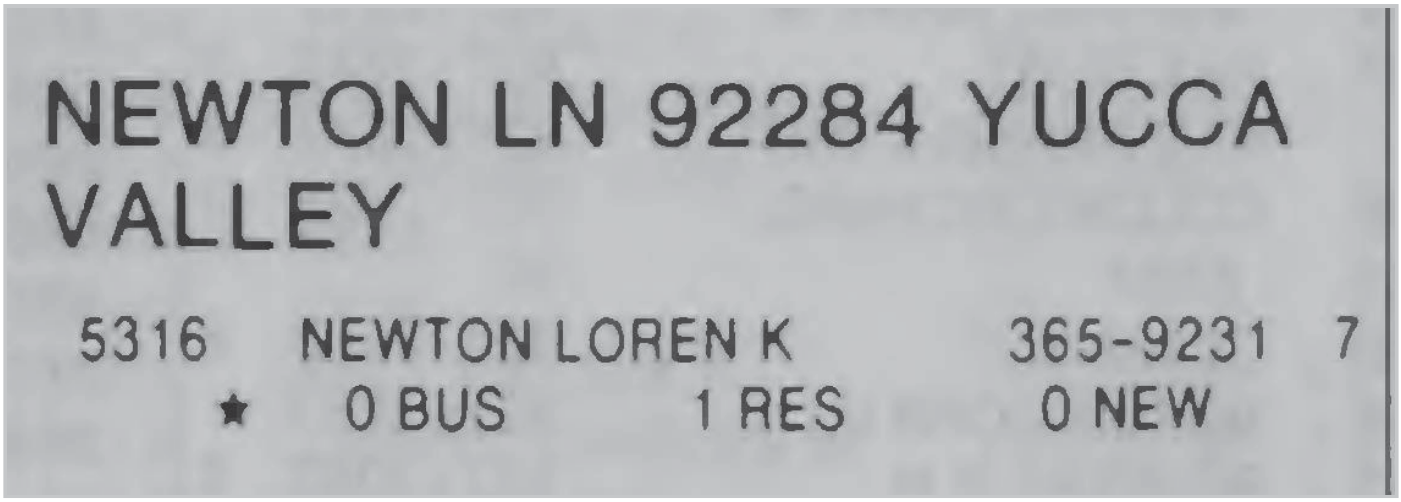


SUN MESA DR 92284
YUCCA VALLEY

56926	HARRISON MILFORD	365-1377 +6
57820	PETERS BETH	365-1737 2
57831	XXXX	00

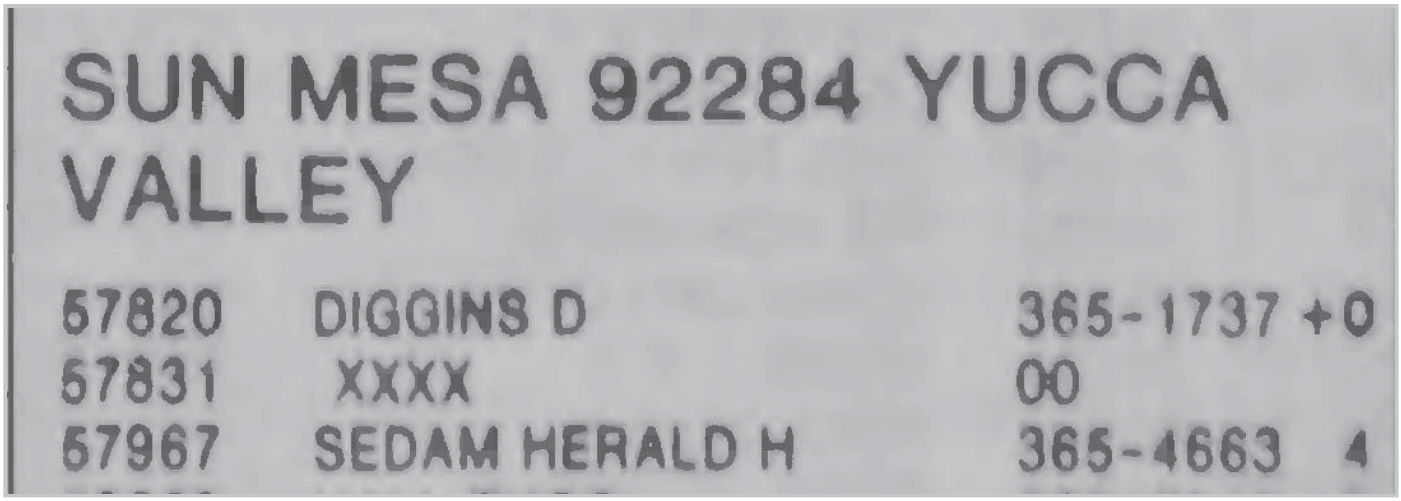
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

NEWTON LN 1980



Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

SUN MESA DR 1980

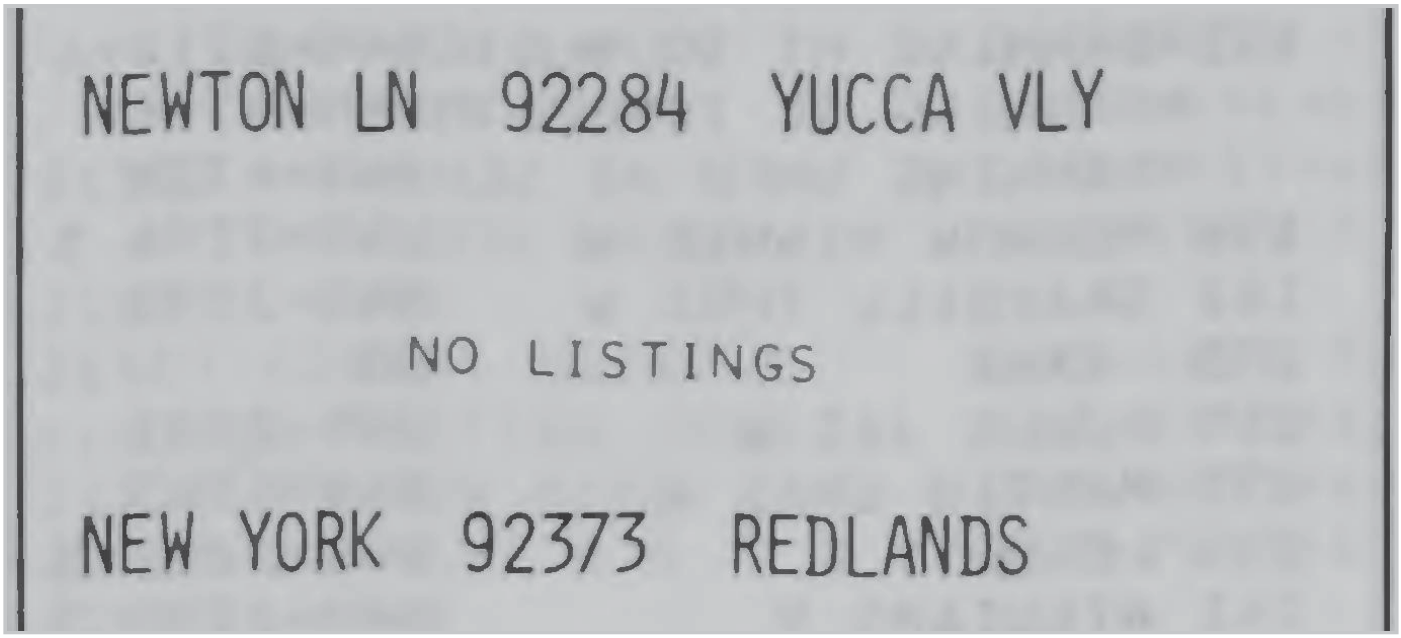


SUN MESA 92284 YUCCA VALLEY

57820	DIGGINS D	365-1737 +0
57831	XXXX	00
57967	SEDAM HERALD H	365-4663 4

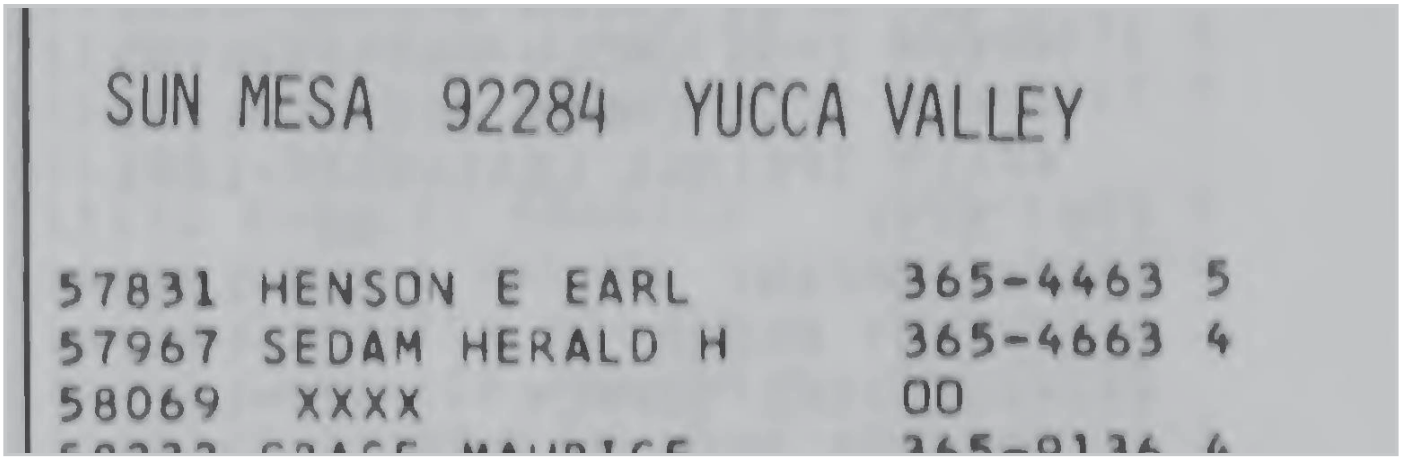
Target Street	Cross Street	Source
✓	-	Haines Criss-Cross Directory

NEWTON LN 1976



Target Street	Cross Street	Source
-	✓	Haines Criss-Cross Directory

SUN MESA DR 1976



SUN MESA 92284 YUCCA VALLEY

57831 HENSON E EARL 365-4463 5
57967 SEDAM HERALD H 365-4663 4
58069 XXXX 00

Yucca Valley Property
Newton Lane
Yucca Valley, CA 92284

Inquiry Number: 7773517.3
September 24, 2024

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

09/24/24

Site Name:	Client Name:
Yucca Valley Property	Ninyo & Moore
Newton Lane	5710 Ruffin Rd
Yucca Valley, CA 92284	San Diego, CA 92123
EDR Inquiry # 7773517.3	Contact: Gabriel Haro

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Ninyo & Moore were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

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Certified Sanborn Results:

Certification # 8671-4A2A-B87F

PO # 109798002

Project Yucca Valley Property

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 8671-4A2A-B87F

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- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

The Sanborn Library LLC Since 1866™

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Yucca Valley Property

Newton Lane

Yucca Valley, CA 92284

Inquiry Number: 7773517.8

September 25, 2024

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

09/25/24

Site Name:

Yucca Valley Property
Newton Lane
Yucca Valley, CA 92284
EDR Inquiry # 7773517.8

Client Name:

Ninyo & Moore
5710 Ruffin Rd
San Diego, CA 92123
Contact: Gabriel Haro

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1995	1"=500'	Acquisition Date: January 01, 1995	USGS/DOQQ
1989	1"=500'	Acquisition Date: July 25, 1989	USGS/DOQQ
1983	1"=500'	Flight Date: June 26, 1983	USDA
1975	1"=500'	Flight Date: October 16, 1975	USGS
1970	1"=500'	Flight Date: April 26, 1970	USGS
1953	1"=500'	Flight Date: February 04, 1953	USDA

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INQUIRY #: 7773517.8
YEAR: 2020
= 500'
N
EDR

INQUIRY #: 7773517.8
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 7773517.8
YEAR: 2012
= 500'
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EDR

INQUIRY #: 7773517.8
YEAR: 2009
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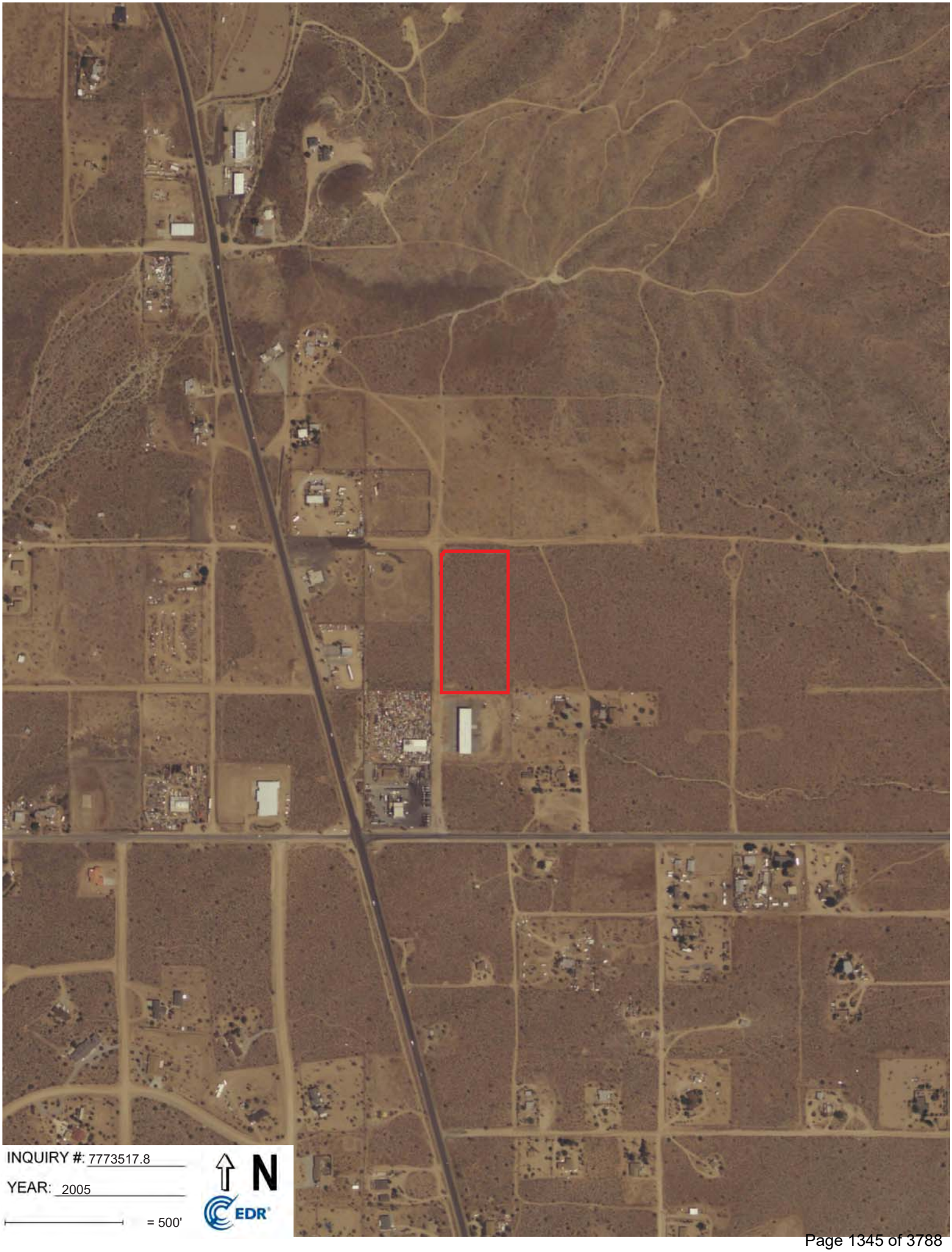
EDR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EDR

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YEAR: 1989
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EDR

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YEAR: 1983
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EDR

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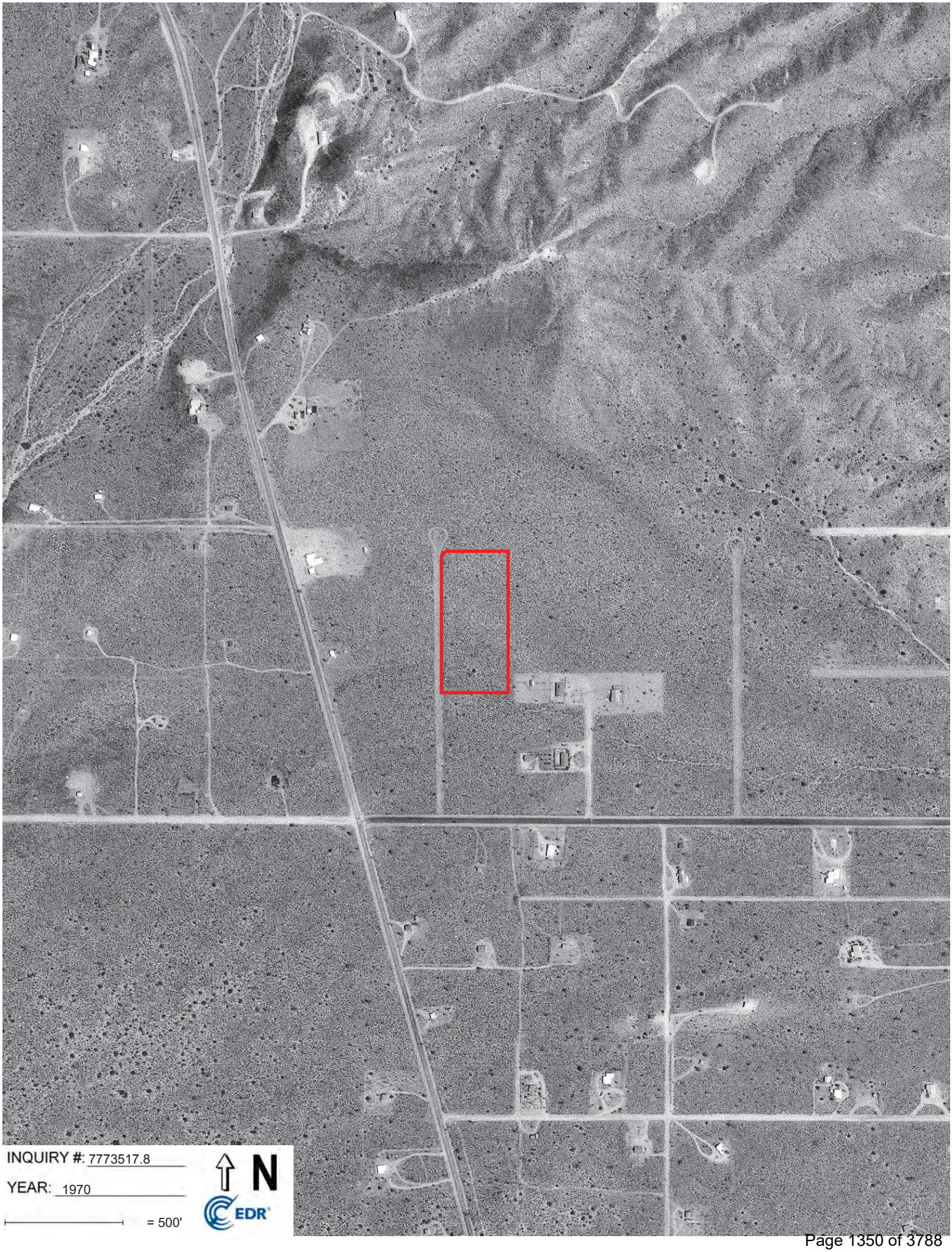
EDR


INQUIRY #: 7773517.8
YEAR: 1970
= 500'
N
EDR

INQUIRY #: 7773517.8
YEAR: 1953
= 500'
N
EDR

Yucca Valley Property
Newton Lane
Yucca Valley, CA 92284

Inquiry Number: 7773517.4
September 24, 2024

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

09/24/24

Site Name:	Client Name:
Yucca Valley Property	Ninyo & Moore
Newton Lane	5710 Ruffin Rd
Yucca Valley, CA 92284	San Diego, CA 92123
EDR Inquiry # 7773517.4	Contact: Gabriel Haro

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ninyo & Moore were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	109798002	**Latitude:**	34.166982 34° 10' 1" North
Project:	Yucca Valley Property	**Longitude:**	-116.420805 -116° 25' 15" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	553382.85
		UTM Y Meters:	3780822.40
		Elevation:	3721.69' above sea level

Maps Provided:

2021
2018
2015
2012
1989
1979
1972
1955

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2021 Source Sheets

Yucca Valley North
2021
7.5-minute, 24000

2018 Source Sheets

Yucca Valley North
2018
7.5-minute, 24000

2015 Source Sheets

Yucca Valley North
2015
7.5-minute, 24000

2012 Source Sheets

Yucca Valley North
2012
7.5-minute, 24000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1989 Source Sheets

Yucca Valley North
1989
7.5-minute, 24000
Aerial Photo Revised 1976

1979 Source Sheets

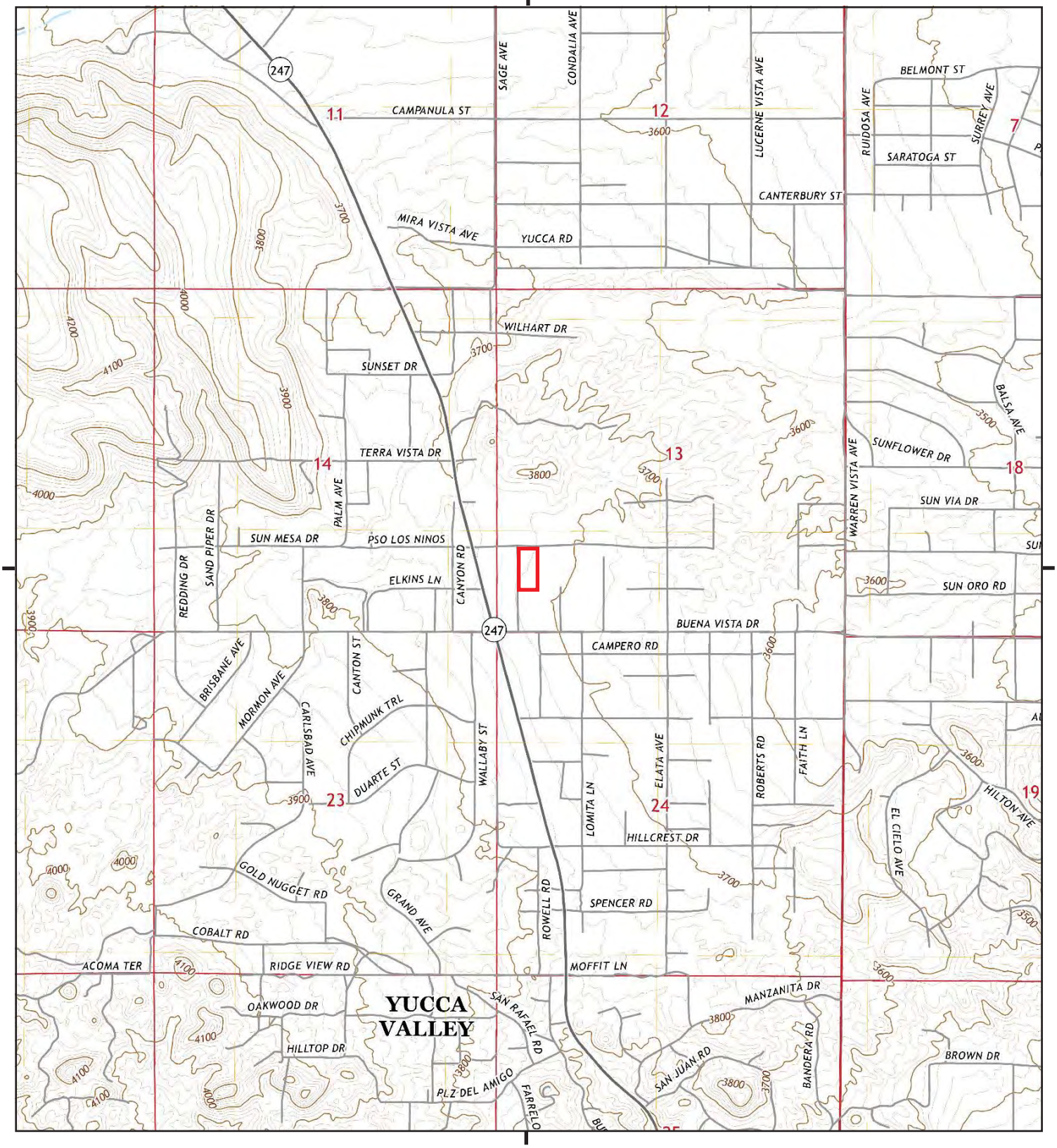
Yucca Valley North
1979
7.5-minute, 24000
Aerial Photo Revised 1976

1972 Source Sheets

Yucca Valley North
1972
7.5-minute, 24000
Aerial Photo Revised 1970

1955 Source Sheets

Joshua Tree
1955
15-minute, 62500
Aerial Photo Revised 1952



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

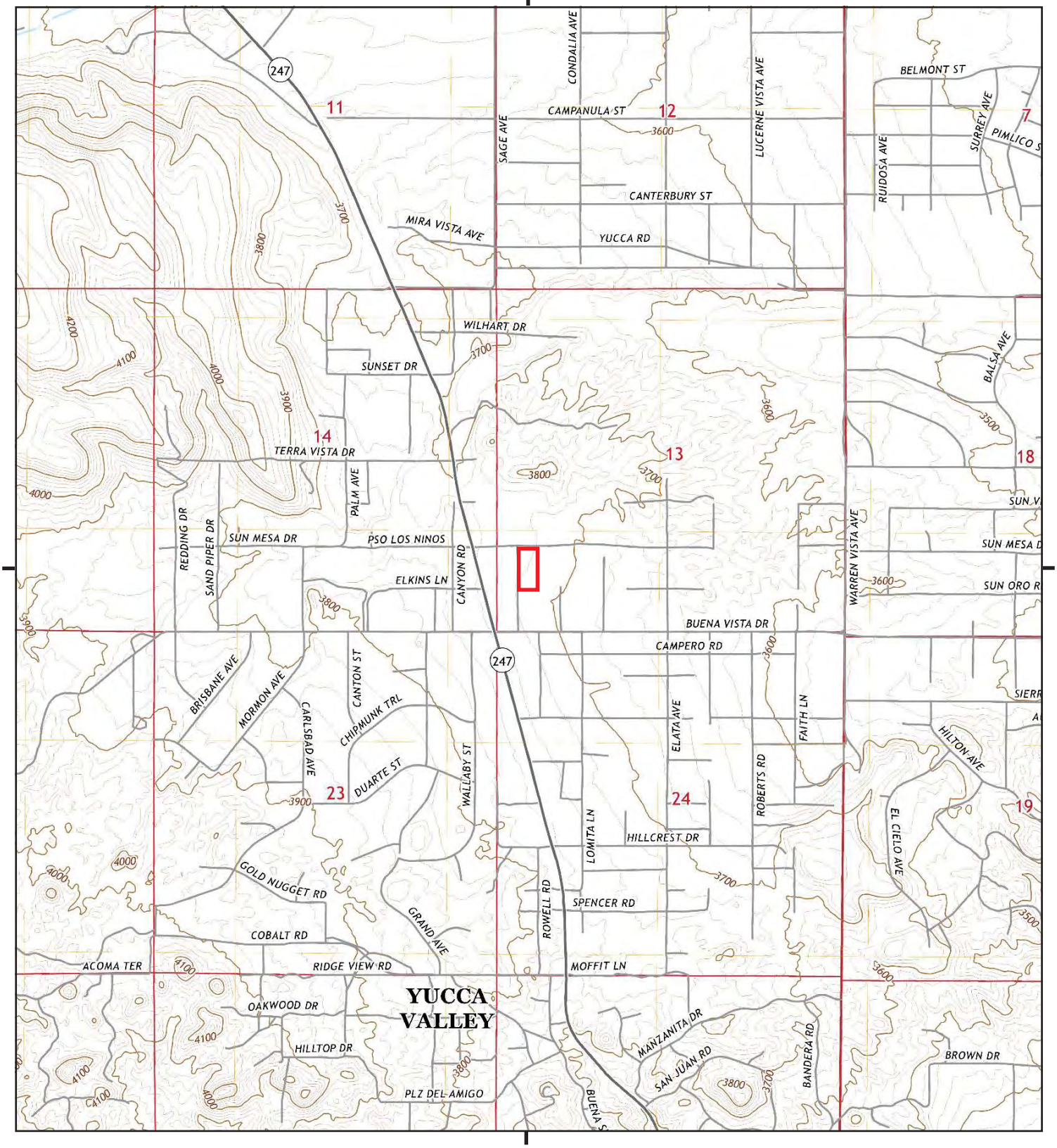
TP, Yucca Valley North, 2021, 7.5-minute

SITE NAME: Yucca Valley Property
ADDRESS: Newton Lane
Yucca Valley, CA 92284
CLIENT: Ninyo & Moore

N

Historical Topo Map

2018



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Yucca Valley North, 2018, 7.5-minute

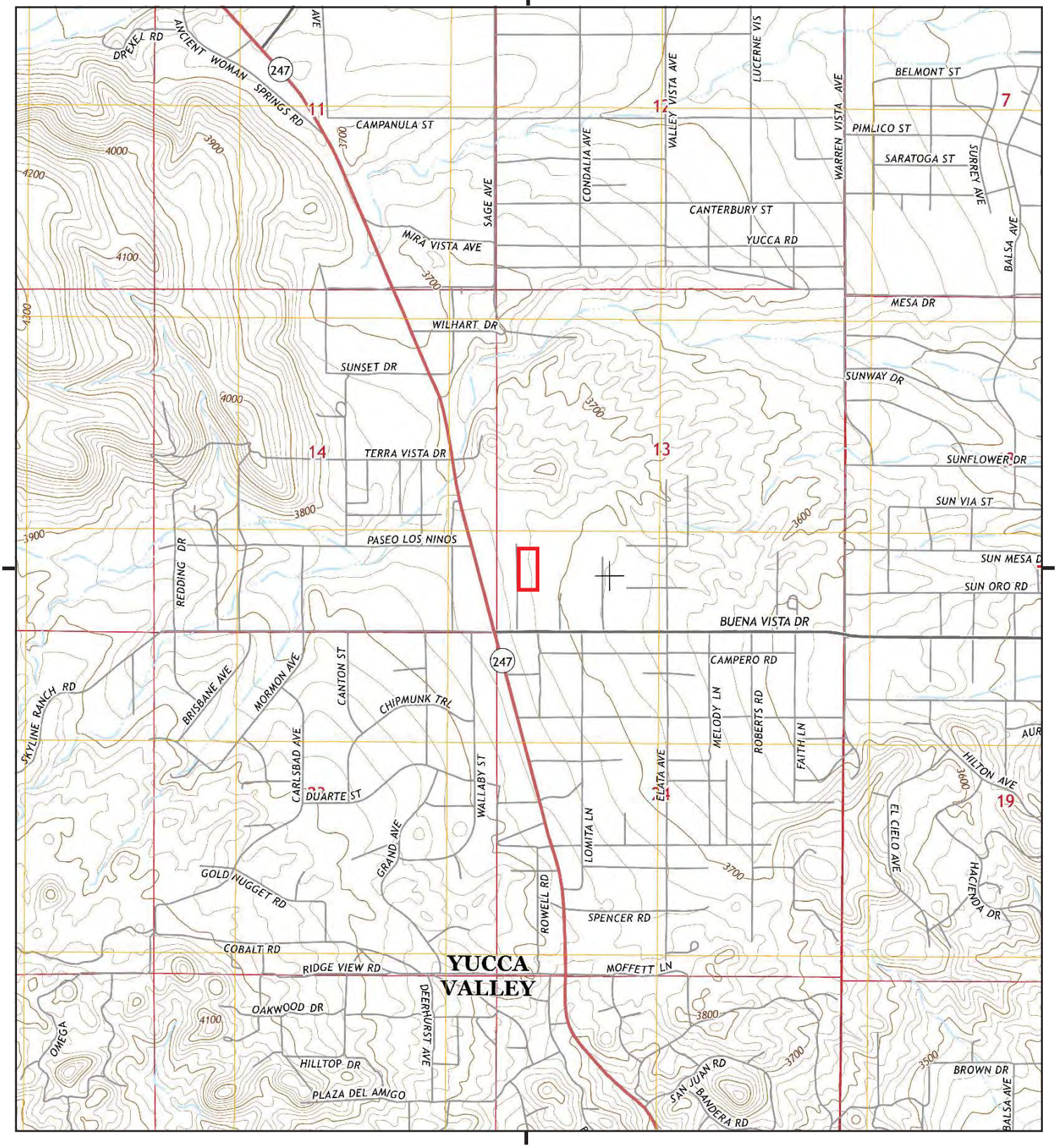
SITE NAME: Yucca Valley Property
ADDRESS: Newton Lane
Yucca Valley, CA 92284
CLIENT: Ninyo & Moore

N

7773517 - 4 page 6

Historical Topo Map

2015



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Yucca Valley North, 2015, 7.5-minute

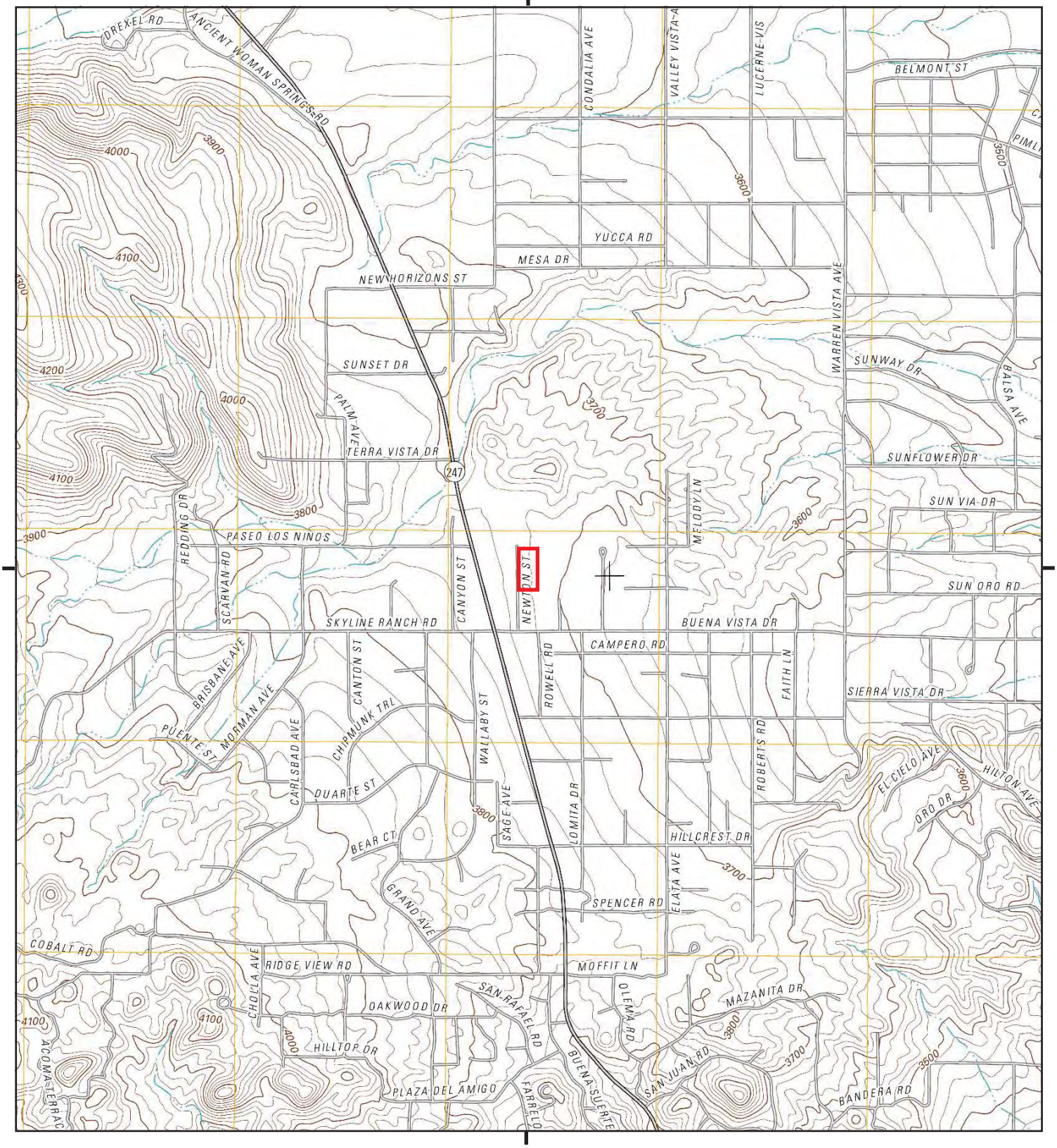
SITE NAME: Yucca Valley Property
ADDRESS: Newton Lane
Yucca Valley, CA 92284
CLIENT: Ninyo & Moore

N

7773517 - 4 page 7

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Yucca Valley North, 2012, 7.5-minute

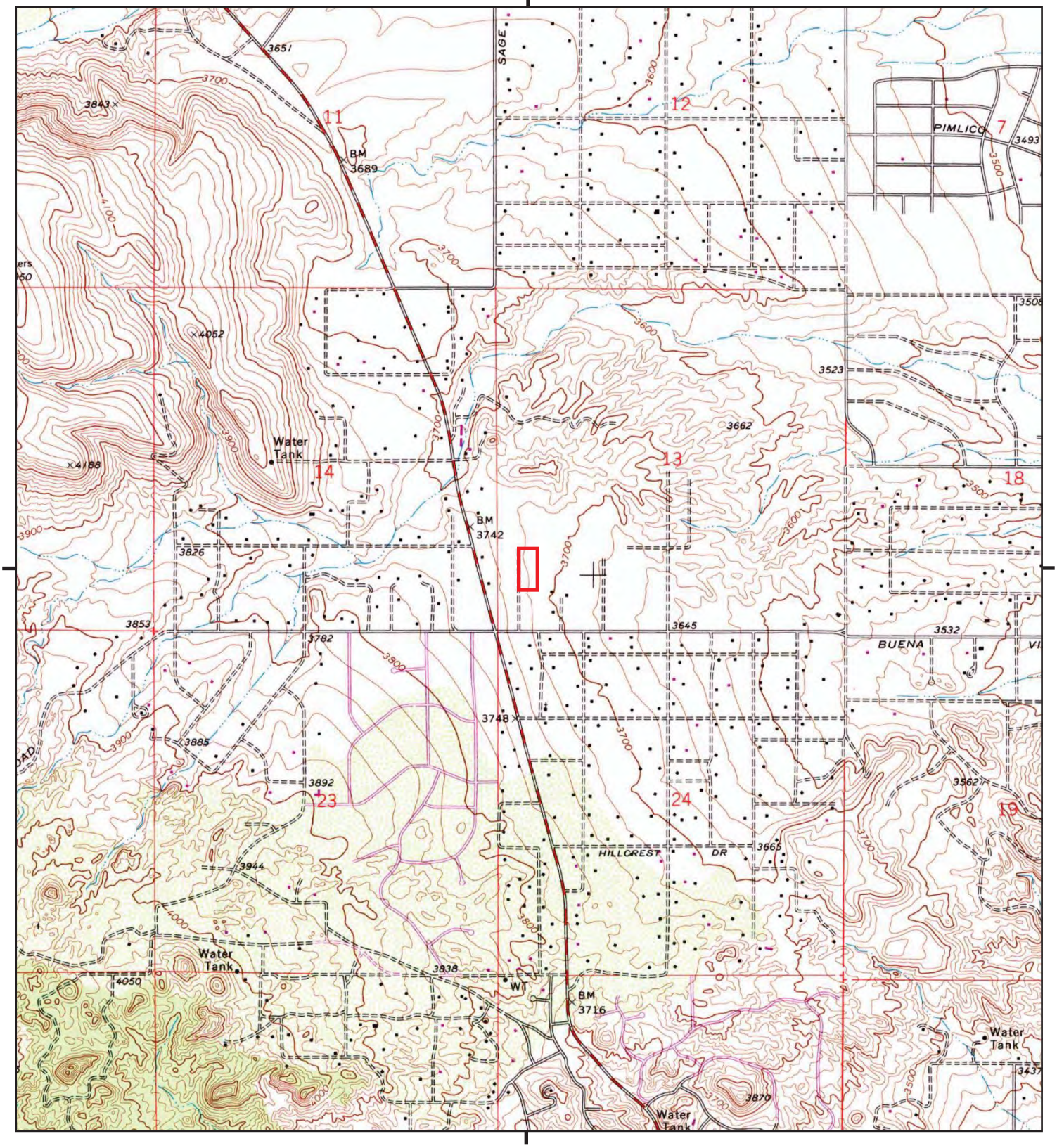
SITE NAME: Yucca Valley Property
ADDRESS: Newton Lane
Yucca Valley, CA 92284
CLIENT: Ninyo & Moore

N

7773517 - 4 page 8

Historical Topo Map

1989



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Yucca Valley North, 1989, 7.5-minute

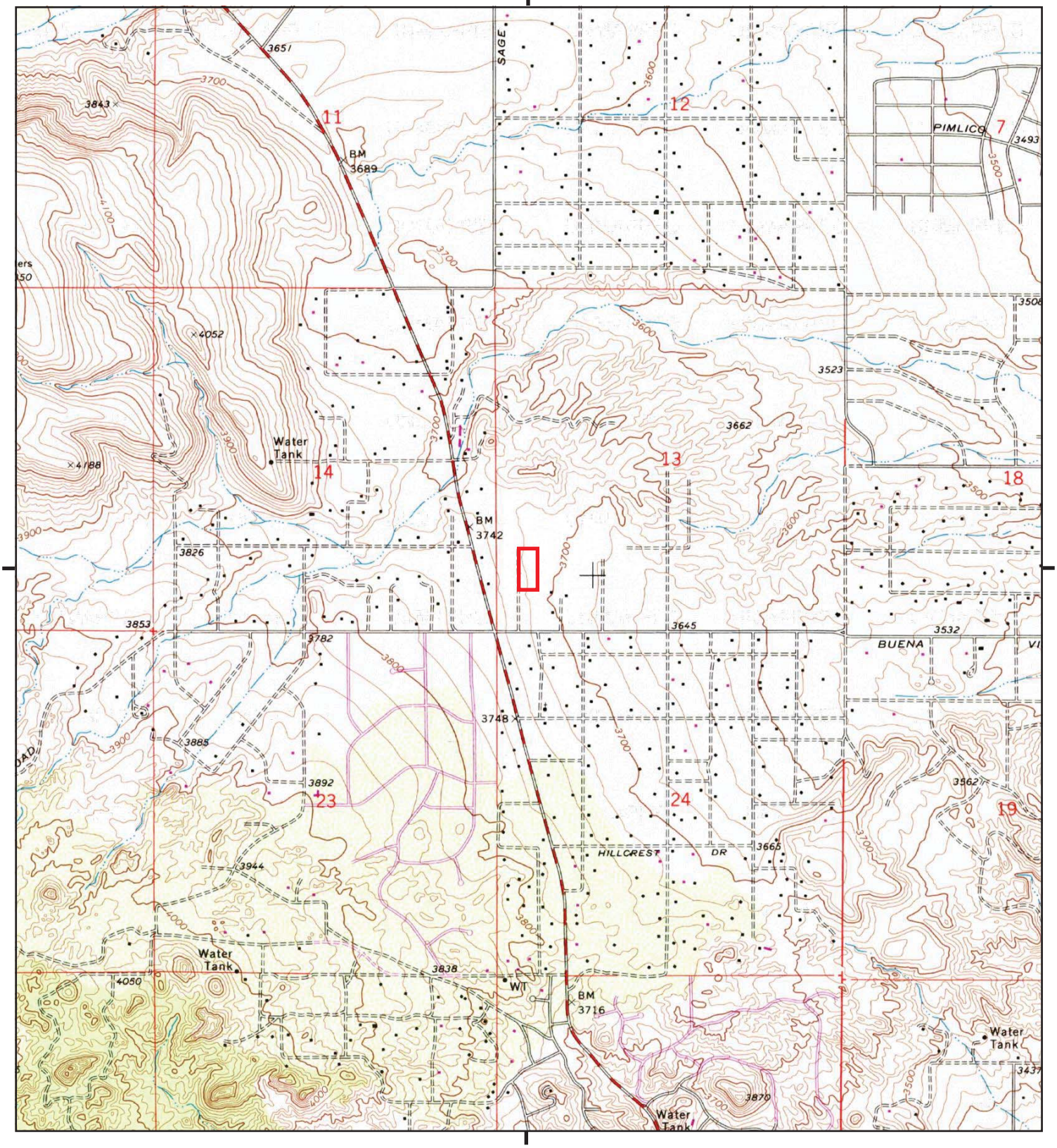
SITE NAME: Yucca Valley Property
ADDRESS: Newton Lane
Yucca Valley, CA 92284
CLIENT: Ninyo & Moore

N

7773517 - 4 page 9

Historical Topo Map

1979



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

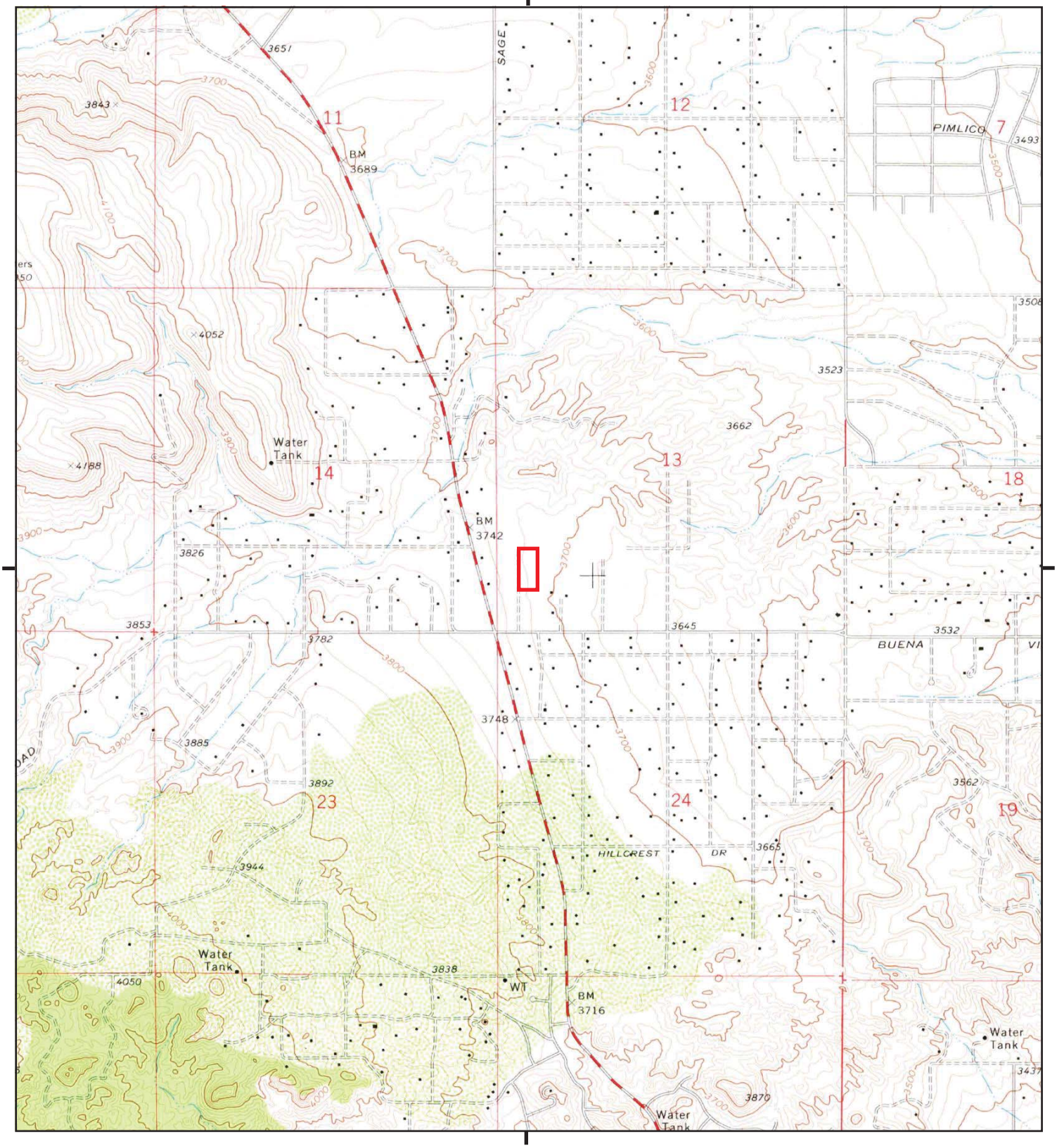
TP, Yucca Valley North, 1979, 7.5-minute

SITE NAME: Yucca Valley Property
ADDRESS: Newton Lane
Yucca Valley, CA 92284
CLIENT: Ninyo & Moore

N

Historical Topo Map

1972



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

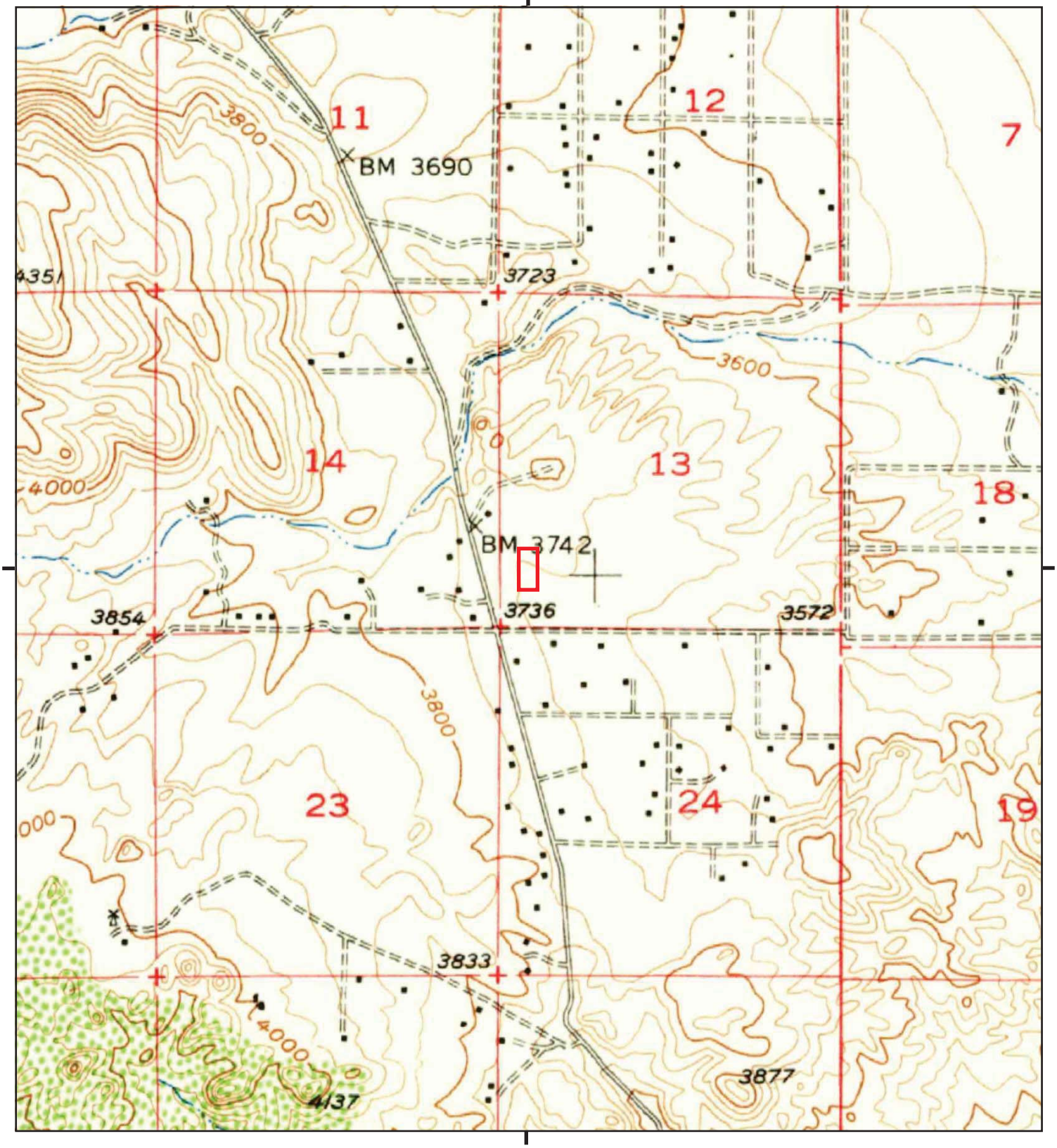
TP, Yucca Valley North, 1972, 7.5-minute

SITE NAME: Yucca Valley Property
ADDRESS: Newton Lane
Yucca Valley, CA 92284
CLIENT: Ninyo & Moore

N

Historical Topo Map

1955



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Joshua Tree, 1955, 15-minute

SITE NAME: Yucca Valley Property
ADDRESS: Newton Lane
Yucca Valley, CA 92284
CLIENT: Ninyo & Moore

N

APPENDIX F

Vapor Encroachment Screening Matrix

Phase I ESA Vapor Encroachment Conditions (VEC) matrix includes a (1) Search Radius Test, (2) Chemicals of Concern Test (COC), and (3) a Critical Distance Test [1].

(1) Search Radius Test: Are there any known or suspect contaminated properties in the primary area of concern within the corresponding search radii?

☐ Yes ☒ No — If ***No***, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If ***Yes***, then:

(2) Chemicals of Concern Test: Are COC likely to be present within the area of concern for those known or suspect contaminated sites identified based on the Search Distance Test?

☐ Yes ☐ No — If ***No***, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If ***Yes***, then:

(3) Critical Distance Test: A plume test to determine whether or not COC in the contaminated plume(s) may be within the critical distance.

☐ Yes ☐ No — (3a) Is information related to the contaminated(s) plume available (i.e., isoconcentration maps, site drawings, etc.)?

(3b) If ***No***, then a VEC cannot be ruled out; check ***Yes*** in #4 below indicating it is likely a VEC exists. If ***Yes***, then:

☐ Yes ☐ No — (3c) Is the site less than 100 feet to the nearest edge of a contaminated [non-petroleum hydrocarbon] plume(s)? If ***Yes***, then check ***Yes*** in #4 below indicating it is likely a VEC exists.

☐ Yes ☐ No — (3d) Is the site less than 30 feet to the nearest edge of a dissolved petroleum hydrocarbon plume(s)? If ***Yes***, then check ***Yes*** in #4 below indicating it is likely a VEC exists.

If the distance from the nearest edge of a contaminated plume to the nearest existing or planned structure on the site is less than 100 feet for non-petroleum hydrocarbon COC, or less than 30 feet for dissolved petroleum hydrocarbons, then it is presumed that a VEC *currently* exists beneath the site. If the distance from the nearest edge of the contaminated plume is greater than or equal to 100 feet for non-petroleum hydrocarbons, or 30 feet for dissolved petroleum hydrocarbon chemicals of concern, then it is presumed unlikely that a VEC *currently* exists beneath the site.

(4) Is it likely that a VEC *currently* exists beneath the site?

☐ Yes ☒ No — If ***No***, then the VEC screening is complete and no further investigation is recommended at this time. If ***Yes***, Ninyo & Moore recommends performing additional assessment, such as a Tier 2 VEC assessment according to ASTM E 2600-15.

[1] Based on guidance presented in the ASTM E 2600-15 Standard.

APPENDIX G

Qualification of the Environmental Professionals

Gabriel A. Haro, GIT, LRC ST

Senior Staff Geologist

EDUCATION

B.S., Geology, 2018, University of California Davis

CERTIFICATIONS

GIT 1655 (California)

CDPH Lead-Related Construction Sampling Technician, No. 9869

AHERA Building Inspector, No. 0522BII190562

40-Hour OSHA HAZWOPER Certification (with annual updates)

As a Senior Staff Geologist, Gabriel manages projects (e.g., Phase I ESAs); prepares technical reports; provides field services (e.g., groundwater/soil/soil vapor sampling, construction oversight, drilling, well installation and development, etc.); schedules and works with sub-consultants onsite (e.g., drillers, utility locaters, etc.); and assists senior staff with other project-related tasks. Gabriel also performs Hazardous Building Materials (HBMs) Surveys to identify HBMs within buildings and prepares tables/figures for the final report.

REPRESENTATIVE EXPERIENCE

San Diego Unified School District, Grant Elementary School Burned Waste Dump, San Diego, California: Staff Geologist for a burned waste removal project at Grant Elementary School. Monitored the excavation of burned waste material and segregation of materials into waste and burned waste stockpiles to reduce disposal costs to offsite facilities, Class II and III landfills. Performed Community Health and Safety monitoring during excavation activities. Characterized the stockpiles for disposal and collected confirmation samples. Oversaw and documented the loading and transport of exported material.

San Diego Unified School District, Correia Middle School/Famosa Blvd Solar PV, San Diego, California: Staff Geologist for the Solar PV installation project at Correia Middle School. Provided oversight and implemented Community Health and Safety monitoring during trenching and drilling activities. Segregated excavated materials based off anticipated disposal requirements associated with Class II and Class III landfills. Characterized the stockpiles for disposal and collected confirmation samples. Oversaw and documented the loading and transport of exported material.

City of San Diego, Rose Canyon Operation Yard Phase II ESA, San Diego, California: Staff Geologist for a Phase II ESA at the Rose Canyon Operation Yard to evaluate the extent of diesel-impacted soil beneath a vehicle refueling island. One angled boring was advanced to vertical depth equivalent of approximately 10.5 feet and two soil samples were collected. Based on the findings of the investigation, diesel-impacted soil did not appear to extend vertically to the depths explored.

County of San Diego Department of Public Works, Cole Grade Road Bridge Over Keys Creek, Valley Center, California: Staff Geologist for the groundwater studies performed for the Cole Grade Road bridge replacement project. Provided support services for preparation of the Groundwater Dewatering Study and Groundwater Resources Investigation Reports and provided assistance with the following project tasks: geophysical surveying; drilling, soil and groundwater sampling, and chemical analysis; well installation and development; aquifer testing (e.g., slug, step and constant rate); and waste management and disposal (e.g., soil cuttings, fluids generated by well development and aquifer testing).

San Diego Unified School District, Bell Junior High School/Sweetwater II Landfill, San Diego, California: Staff Geologist for a project concerning post closure maintenance and the groundwater detection and evaluation monitoring program for thirteen groundwater wells at Bell Junior High School. Performs annual gauging and sampling and assists with preparing the annual reports summarizing the data and evaluating the trends.

Gabriel A. Haro
Senior Staff Geologist

Wayfarer Bread & Pastry, Property Purchase Phase I ESA, La Jolla, California: Senior Staff Geologist for a Phase I ESA performed for an approximately 0.1-acre property located in La Jolla, California. A release case was identified at an adjoining property so regulatory agency files were requested to ascertain the nature of the release, status of the cleanup, and potential impacts to the site. This assessment was performed in accordance with ASTM E1527-21 Standard Practice for ESAs and revealed no evidence of RECs in connection with the property.

Port of San Diego, National City Marine Terminal (NCMT) Electrical Line Installation, National City, California: Staff Geologist for the NCMT electrical line installation project. The project included the advancement of 33 hand-augered borings along 1,200 linear feet of proposed electrical trenches. Services included collection of discrete soil samples, preparation of a Health and Safety Plan, and preparation of a technical memorandum summarizing the sampling procedures and the analytical results.

Imperial County Office of Education, Agricultural Property Acquisition Phase I ESA, El Centro, California: Senior Staff Geologist for a Phase I ESA performed for an approximately 22-acre property, located along West McCabe Road in El Centro, California. The site was zoned for agricultural use and during the historical review, it was identified that the residential structure previously located at the site was lost to fire. Based on information obtained during the site reconnaissance, RECs included a suspected improperly abandoned well and burned debris/rubble located at the former building footprint. This assessment was performed in accordance with ASTM E1527-21 Standard Practice for ESAs and a Phase II ESA proposal is being prepared for the site.

Port of San Diego, Tenth Avenue Marine Terminal (TAMT) Phase III Electrical Distribution System Upgrade, San Diego, California: Staff Geologist for the TAMT electrical system upgrade project. The project included the advancement of seven drilled borings and 14 hand-augered borings along 6,500 linear feet of proposed electrical trenches. Services included collection of discrete soil samples, preparation of a Health and Safety Plan, and preparation of a technical memorandum summarizing the sampling procedures and the analytical results.

Otay Water District, Salt Creek Golf Course Phase I ESA, Chula Vista, California: Staff Geologist for a Phase I ESA performed for an approximately 164-acre property, located at the northern terminus of Hunte Parkway. Based on the historical records review and interviews, the property was used as a farmstead since at least 1928. The Otay Water District acquired 509 acres of property in 1970, which included the subject site and adjacent properties to the north, east, and west for recycled water disposal. At the time of the reconnaissance, the property was vacant and formerly occupied by a golf course. This assessment was performed in accordance with ASTM E1527-13 Standard Practice for ESAs and revealed two RECs in connection with the property.

County of San Diego Department of Public Works, Don Dussault Park Expansion Phase I ESA, Fallbrook, California: Staff Geologist for a Phase I ESA performed for an approximately 4.6-acre property, located on the east side of Alturas Road. Historical records indicated that the property functioned as an orchard from at least 1938 until the 1950s and remained undeveloped after the 1950s. Agricultural land was present in the general vicinity from until the 1970s (e.g., orchard, nursery, etc.). This assessment was performed in accordance with ASTM E1527-13 Standard Practice for ESAs and revealed no evidence of RECs in connection with the property.

Otay Water District, Salt Creek Golf Course Phase I ESA, Chula Vista, California: Staff Geologist for a Phase I ESA performed for an approximately 164-acre property, located at the northern terminus of Hunte Parkway. Based on the historical records review and interviews, the property was used as a farmstead since at least 1928. The Otay Water District acquired 509 acres of property in 1970, which included the subject site and adjacent properties to the north, east, and west for recycled water disposal. At the time of the reconnaissance, the property was vacant and formerly occupied by a golf course. This assessment was performed in accordance with ASTM E1527-13 Standard Practice for ESAs and revealed two RECs in connection with the property.

University of California, Irvine, Anza-Borrego Parcel Acquisition Phase I ESA, Borrego Springs, California: Staff Geologist for a Phase I ESA performed for an approximately 9.6-acre property, located west of the Tilting T Drive terminus. According to a historical review, the property remained undeveloped since as early as 1939. The property was apparently used by research groups who study the local flora and fauna and by recreational hikers. This assessment was performed in accordance with ASTM E1527-13 Standard Practice for ESAs and revealed no evidence of RECs in connection with the property.

Gabriel A. Haro

Senior Staff Geologist

County of Placer, Dowd Road at Coon Creek Bridge Replacement Project, Placer County, California: Construction Monitor for a bridge replacement project along Dowd Road in Placer County. The project required monitoring and oversight of the removal of live oak trees and willows prior to construction, and the installation of the Environmentally Sensitive Area perimeter fencing. This project also included pre-construction surveys for sensitive species and required that worker environmental awareness training be delivered to all construction personnel working onsite.

Sacramento Municipal Utility District (SMUD), Franklin Substation and Transmission Line Project, Sacramento County, California: Construction Monitor for a high-voltage transmission lines upgrade project to support the newly constructed Franklin Substation. The purpose of the project was to verify and document compliance with all avoidance and minimization measures as required by permits and the mitigation monitoring and reporting program. The project included pre-construction surveys for special-status species and the preparation of daily monitoring logs documenting monitoring activities and wildlife observations, including photo documentation.

Port of San Diego, 1220 Pacific Highway Phase I & II ESAs and HBMs Survey, San Diego, California: Staff Geologist for a Phase I ESA performed for a Navy-occupied property on the San Diego Bay waterfront. A prior release on the site and other environmental concerns identified during the Phase I review prompted the Phase II ESA which consisted of soil, groundwater, and soil vapor sampling at specific locations across the site. Additional services included sampling building materials to identify HBMs present in each of the site buildings. Activities included field services, report preparation, and project coordination.

East Bay Regional Park District (EBRPD), Seaborg Trail Culvert Replacement Project, Contra Costa County, California: Construction Monitor for the rehabilitation of the side slope along Seaborg Trail resulting from heavy storm damage in 2017. The project included monitoring construction of erosion control measures and performing pre-construction surveys.

Travis W. Meier, QISP

Principal Environmental Scientist

EDUCATION

M.S., Environmental & Earth Science, California State University, San Bernardino

B.S., Environmental & Earth Science, University of Redlands

REGISTRATIONS/CERTIFICATIONS

QISP No. 00213 (California)

OSHA 40 Hour Construction Certification

Mr. Meier has over over 22 years of environmental experience including environmental site assessments; investigation, assessment, and evaluation of hazardous materials; soil and groundwater contamination evaluations; and regulatory compliance. Mr. Meier has provided these services for a variety of public works clients, educational entities, and others.

REPRESENTATIVE EXPERIENCE

Fixed Base Operator (FBO) Facility, San Diego International Airport, Construction Monitoring Oversight, San Diego, San Diego County, California: Field Team Lead acting as the primary field team lead and inspector in relation to oversight of construction of a new private airplane service at the San Diego International Airport. Prior industrial operations on the property resulted in soil and groundwater contamination with potential sources remaining on the property. During his tenure on the project, Mr. Meier screened excavation soils, identified and directed segregation of impacted versus non-impacted soils to limit disposal/export costs, provided guidance and support in relation to the discovery and removal of an underground storage tank (UST), and provided oversight of application of vapor reducing products (Liquid Boot™) and the installation of a passive soil vapor mitigation system beneath structures. Following completion of construction, Mr. Meier and associated Kleinfelder staff, performed routine (semi-annual) sampling of vapors from both indoor air and also exhaust vents from the passive vapor mitigation system in accordance with regulator requirements. The soil vapor sampling requirements were discontinued after multiple rounds of sampling in circa 2018.

High Speed Rail, Burbank to Palmdale, Hazardous Materials Technical Study and EIR/EIS Section, Burbank, California: Lead Author acting as the lead/primary author for the Hazardous Material Technical Study and assisted with writing the associated section in the EIR/EIS document. The project consisted of evaluation of historical hazardous material release sites with potential impacts to a proposed rail line with several proposed alternatives.

County of San Diego Campus Redevelopment Phase 3, Crime Laboratory Environmental Services, San Diego County, California: Project Manager providing management, oversight, and coordination for characterization, delineation, and disposal of reuse of excavated impacted soil from the prior County Fleet Maintenance facility. Planned redevelopment of the site consisted of installation of a crime lab containing a subterranean evidence vault extending to an approximate excavation to a depth of thirty feet below ground surface. Impacted material was encountered during the initial excavation and consequently required delineation, assessment, and off-site disposal of approximately 30,000 cubic yards of impacted material. Coordination and management for export of the impacted material and observation of the excavation was performed using a team of Kleinfelder personnel. An on-site chemical laboratory was used during critical phases of the excavation for immediate characterization and waste disposal decisions and avoidance of excavation delays. over several months. Collected information was used to facilitate reuse of non-impacted material and keep the project on schedule and within budget. Soil vapor intrusion modeling was also performed based on historic and collected soil sample information to confirm the project did not pose an issue for occupants and soil vapor

mitigation was not necessary. In addition, National Pollution Discharge Elimination System groundwater sampling was performed during development of the site. Combined work on the project, including change orders, totals in excess of $360,000.00 to date. Close coordination of our work with the excavation contractor facilitated the excavation work to be completed ahead of schedule.

Caltrans District 11, On-Call, Multiple Provider, Hazardous Substances Emergency Services Contracts (11A2631/11A3007), San Diego and Imperial Counties, California: Deputy Contract Manager responsible for project management and coordination for on-call needed services in relation to emergency hazardous materials sampling, delineation, and disposal/reuse. To date, Work Requests (WRs) in relation to the contract has included multiple aerially deposited lead (ADL) characterization and reuse projects, a vibration monitoring and consultation project, multiple asbestos containing material (ACM) characterization, abatement oversight (areas under negative pressure and pipe removal), and disposal projects, update of multiple Spill, Prevention, Control, and Countermeasure (SPCC) Plans projects, and a soil characterization (via drilling and sample collection) project for relocation and reuse along the Pacific Ocean shoreline. Combined projects include over 40 WRs with a total value of approximately $814,000.00.

Caltrans District 11, Site Assessment Activities (Contracts 11A2340 and 11A2880), San Diego and Imperial Counties, California: Served multiple roles including Environmental Scientist, Project Manager, and Deputy Contract Manager on TOs under the related contracts. Managed and provided oversight of multiple TOs for ISAs and SI services, including preparing work plans, sampling and analysis plans, performance of assessments, and preparation of reports. Mr. Meier was the lead for the SR 94/I-805 HOV Connector Project which was a priority Caltrans project and involved both environmental and geotechnical components (completed). Work involved advancement of approximately 65 boreholes within median, shoulder, and adjacent surficial roadway locations requiring lane closures and usage of up to four drill-rigs concurrently in a high traffic area. The field work was completed ahead of schedule and below budget. Work took place on an extremely busy freeway, and Mr. Meier performed the environmental services safely and without incident. Combined projects include over 80 TOs totaling $5,980,617.31.

METRO, Stormwater and Industrial Wastewater Compliance Services, Los Angeles, California: Project Manager providing oversight, coordination, and sampling for over 20 industrial facilities located in Los Angeles, California. Oversight included management of monthly inspections, coordination and sample collection guidance for numerous sub-consultants during rain events, and related agency regulatory compliance work. Management was provided for a team of over 15 members to facilitate coordinated storm water sample collection.

5710 Ruffin Road | San Diego, California 92123 | p. 858.576.1000

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Geotechnical & Environmental Sciences Consultants

APPENDIX G1

PERCOLATION TESTING REPORT

Sladden Engineering

PERCOLATION TESTING FOR ONSITE
SEWAGE DISPOSAL FEASIBILITY
PROPOSED SELF-STORAGE FACILITY
APN 0597-111-67
SEC SUN MESA DRIVE & NEWTON LANE
TOWN OF YUCCA VALLEY, CALIFORNIA

-Prepared By-

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January 14, 2025 Project No. 544-24365
25-01-007

1.0 DESCRIPTION OF SITE AND PROPOSAL

1.1 Mr. Rob Billings
5024 Wallaby Street
Yucca Valley, California 92284

Project: Proposed Self-Storage Facilities
APN 0597-111-67
SEC Sun Mesa Drive & Newton Lane
Town of Yucca Valley, California

Subject: Percolation Testing for Onsite Sewage Disposal Feasibility

1.2. Location:

The project site is located at the southeast corner of Sun Mesa Drive and Newton Lane in the Town of Yucca Valley, California. The project site consists of a single parcel that is formally identified by the County of San Bernardino as APN 0597-111-67. The parcel occupies approximately 4.34 acres of land and is undeveloped. Local surface gradients descend to the southeast at inclinations of approximately ten horizontal to one vertical (10H:1V) and less. The site is near the elevation of the adjacent properties and roadways and is located at approximately 34.1669 degrees north latitude and 116.4207 degrees west longitude (Figure 1). The subject property is bounded by Sun Mesa Drive to the north, undeveloped property to the east, commercial property to the south, and Newton lane to the west.

1.3 Proposed Development:

a) It is our understanding that the proposed project will consist of constructing a self-storage facility and a 400 square foot manager's office on the subject property. Concrete flatwork, landscape areas, and various associated site improvements are also anticipated. The new office building will be serviced by an onsite sewage disposal system consisting of a septic tank and leach lines.

1.4 Description of Site and Surroundings:

a) Overall surface gradients descend to the east at inclinations of ten horizontal to one vertical and less (10H:1V). The project site is located at an elevation of approximately 3,725 feet above mean sea level (MSL)[1].

[1] United States Geological Survey (USGS), 2021, Yucca Valley North Quadrangle, California-San Bernardino County, 7.5 Minute Series.

b) No natural ponding of water or surface seeps were observed at or near the site during our investigations conducted on December 3, 2024. Site drainage appears to be controlled via sheet flow and surface infiltration. The closest "blue line" stream is located approximately 0.35 miles to the northwest of the property (USGS, 2021).

c) It is assumed that the properties within the vicinity of the project site are utilizing individual on-site sewage disposal systems consisting of septic tanks and leach lines or seepage pits.

d) No water wells were identified on-site during our field investigation The site vicinity is serviced by the Hi-Desert Water District

e) No bedrock outcrops were observed on the subject property or in the immediate site vicinity. The underlying earth materials consists of fine to coarse-grained silty sand (SM) and sand (SW).

f) Bedrock was not encountered within the exploratory bores and test holes that were excavated to a maximum depth of approximately 21.5 feet bgs.

g) Groundwater was not encountered within our exploratory bores or test holes that extended to a maximum explored depth of approximately 21.5 feet bgs. Information regarding the approximate depth to groundwater provided by the California Department of Water Resources online database indicates that the depth to groundwater is in excess of 80 feet below the existing ground surface in the immediate vicinity of the site. The following table provides a summary of the historic high groundwater depths reported in the project vicinity.

TABLE 1
GROUNDWATER DEPTHS

STATE WELL	LAT/LONG	DISTANCE (KM)	DATE	DEPTH (FT)
01N05E14J001S	34.1697/-116.4255	0.50	01/23/1958	167
01N05E14Q001S	34.1661/-116.43	0.85	02/12/1958	100
01N05E24B001S	34.1625/-116.4122	0.95	02/12/1958	131.54
01N05E14P001S	34.1661/-116.4344	1.25	01/01/1958	82
01N05E24F001S	34.1589/-116.4167	1.00	02/12/1958	Dry Well
01N05E24K001S	34.1553/-116.4122	1.50	01/24/1958	Dry Well

h) Site geologic features are not expected to have a significant impact on sewage disposal system design.

i) It appears that there will be sufficient area for the on-site sewage disposal system and the required expansion area on the subject site.

2.0 EQUIPMENT

a) Two (2) exploratory bores and four (4) test holes were excavated on the subject property using a truck-mounted drill-rig (Mobile B-61) equipped with 8-inch outside diameter augers.

b) Tools used during testing consisted of a water level measuring device, a multi-timer application, and a 500-gallon truck-mounted water tank.

3.0 METHODOLOGY AND PROCEDURES

3.1 The exploratory bore and test hole locations were determined by Global Positioning System (GPS). The approximate locations of the exploratory bore and test holes are indicated in the attached Exploration Location Plan (Figure 3).

3.2 The test results and soil conditions encountered during our site exploration indicated "favorable" conditions. The percolation test rates determined by testing were consistent with the alluvial soil conditions observed throughout the subject parcel. The surface gradient throughout the site is less than 30 percent.

3.3 The soil encountered in our exploratory bores and test holes consisted primarily of fine- to coarse-grained silty sand (SM) and sand (SW).

3.4 Test procedures for leach lines:

a) Prior to testing, the County of San Bernardino DEHS was notified of the intent to perform percolation testing.
b) Two (2) exploratory bores and four (4) leach line percolation test holes were excavated on the site to depths between approximately 5 and 15 feet bgs. Percolation testing was performed at a depth of approximately 5 feet bgs within each of the test holes. Two (2) inches of ½ inch gravel was placed on the bottom of the test holes to prevent scouring when water was added.
c) Twelve inches of water (10 inches above gravel) of water was placed in the test holes and the drop in the water level was recorded over two consecutive 10-minute readings.
d) Percolation testing was performed by filling each test hole with approximately 8 inches of water and recording the time required to drop (minimum of 1-inch drop, maximum of 3-inch drop) in accordance with San Bernardino County OWTS guidelines[2].

3.4 Leach Line Test Results

TABLE 2
LEACH LINE TEST RESULTS

Test Hole No.	Depth (Ft.)	Q gal/sq. ft/day	Q minutes/inch	Minimum Square Feet of Absorption Area Per Gallon Per Day
P-1	5.0	----	2.22	0.83
P-2	5.0	----	1.67	0.83
P-3	5.0	----	2.38	0.83
P-4	5.0	----	2.10	0.83

[2] San Bernardino Public Health, Environmental Health Services, Percolation Testing and Reporting Standards for Onsite Wastewater Treatment Systems, Revised September 2019.

4.0 DISCUSSION OF RESULTS

4.1 Testing indicates percolation rates between 1.67 and 2.38 minutes per inch that are consistent with the alluvium encountered with our exploratory bore and test holes.

4.2 The recorded measurements are considered accurate, and the consistency of the individual test results indicates accuracy.

5.0 DESIGN

5.1 Criteria:

a) Leach lines may be designed based on an application rate of 0.83 square feet per gallon per day in accordance with San Bernardino County DEHS guidelines.

TABLE 3
FIXTURE COUNT

PLUMBING FIXTURE	NUMBER	F/U	TOTAL
Water Closet	1	6	6
Lavatory	1	2	2
Sink	1	2	2

b) The estimated flow has been determined in accordance with CPC Table H201.1(4). Based on information provided by the design team, type of occupancy has been based on "Offices – per employee (20 gal)".

Based on the estimated wastewater flows and the provided fixture units, the new septic system should be sized based on the fixture units. The following information is considered applicable for use in septic system design:

a) The septic tank size should be based on the CPC Table H 201.1 for fixture units as follows:

- Fixture Units = 10
- Septic Tank Capacity = **750 gallons septic tank capacity**

b) The estimated waste/sewage flow rate was calculated based on the septic tank capacity of **750 gallons** with the following equation:

- Flow x 1.5 = Septic Tank Size
- Flow = Septic Tank Size / 1.5
- Flow = **500 gal/day**

c) Design Rate: The following calculation may be utilized to determine the design rate in square feet (ft^2) per 100 gallons of septic tank capacity (gstc):

= Application Rate (ft^2/gal/day)* Flow (gal)/(Septic Tank Size/100 gal)

=(0.83 ft^2/gal/day*500 gal)/(750 gal/100 gal)= **55.3 ft^2 per 100 gstc**

d) Information to assist in the design of the on-site sewage disposal system is presented below:

OWTS DESIGN
Standard Design (Three (3) Feet of Gravel @ Bottom of Leach Lines)
Fixture Units Served: 10
Design Rate (ft^2 per 100 gstc): 55.3
Application Rate (square feet/gal/day): 0.83
Estimated Gallons of Effluent Per Day: 500
Gallons of Septic Tank Capacity: 750
Absorption Area (square feet): 415
Trench Credit (square feet per ft): 7
Leach Line Length (ft): 60
Number of Leach Lines: 2 at 30 Feet Each

6.0 SEE ATTACHED EXPLORATION LOCATION PLAN AND OWTS PLAN

7.0 GENERAL DISCUSSION AND CONCLUSIONS

7.1 Based on the data presented in the report, it is the judgment of this engineer that leach lines may be used for the sewage disposal on this property.

7.2 Based on the data presented in this report and the tested information accumulated, it is the judgment of the engineer that the groundwater table should not encroach with the allowable limit set forth by County and State requirements, when the recommendations of this report are followed. Also, there appears to be sufficient area for the proposed on-site sewage disposal systems and future expansion.

7.3 All minimum setback distances shall be maintained for the proposed sewage disposal system in accordance with San Bernardino County guidelines[3].

[3] San Bernardino Public Health, Environmental Health Services, Percolation Testing and Reporting Standards for Onsite Wastewater Treatment Systems, Revised September 2019; Appendix D.

8.0 GENERAL

The findings and recommendations presented in this report are based upon interpolating the soil conditions between bore locations and extrapolating the conditions throughout the sewage disposal system area. Should conditions encountered during grading (or excavation) appear different than those indicated in this report, this office should be notified.

This report is considered applicable for use by the client for the specific site and project described herein. The use of this report by other parties or for other projects is not authorized.

We appreciate the opportunity to provide service to you on this project. If you have any questions regarding this report, please contact the undersigned.

Respectfully submitted,
SLADDEN ENGINEERING

Carolin Patino
Staff Geologist

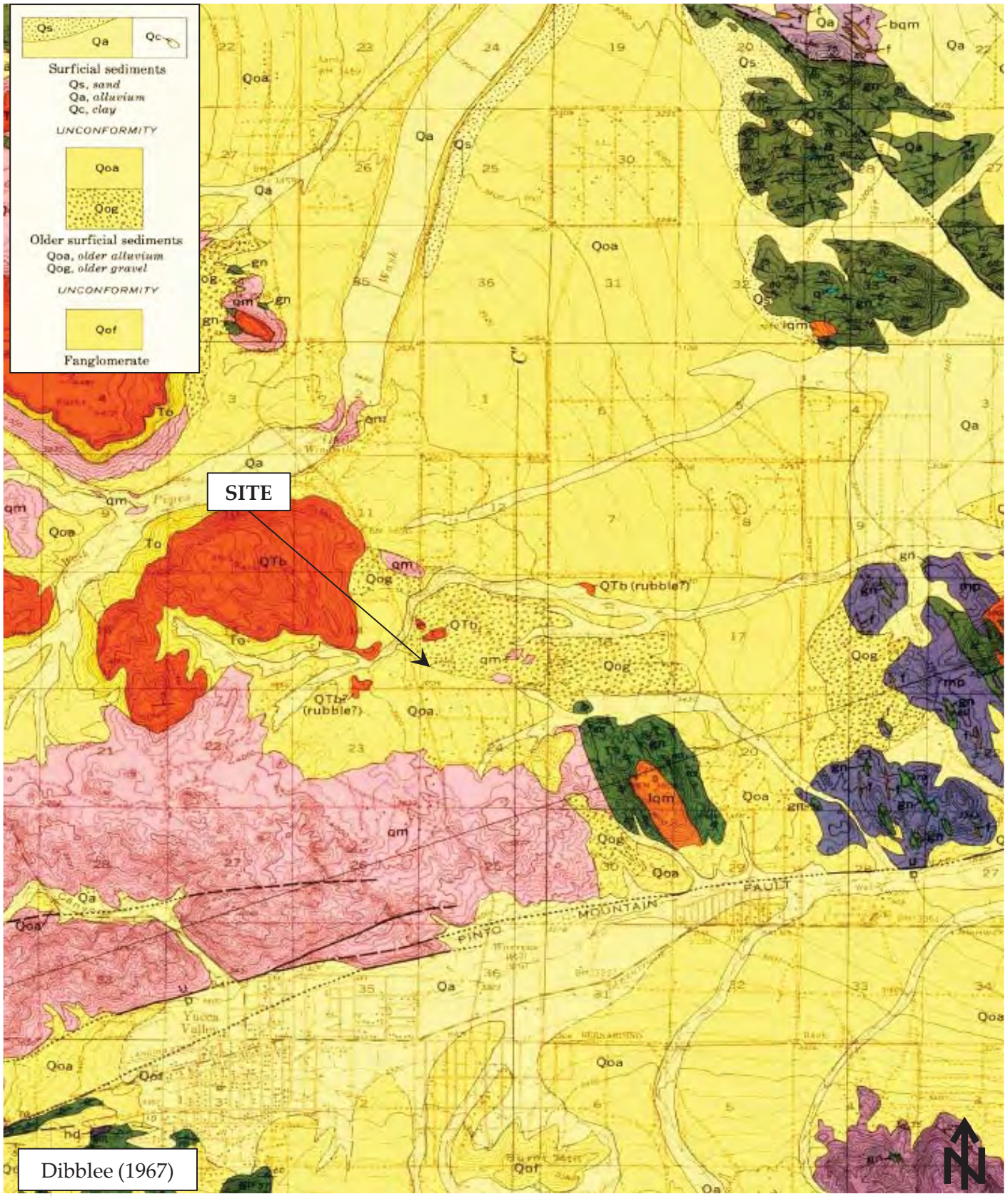
Brett L. Anderson
Principal Engineer

Matthew J. Cohrt
Principal Geologist

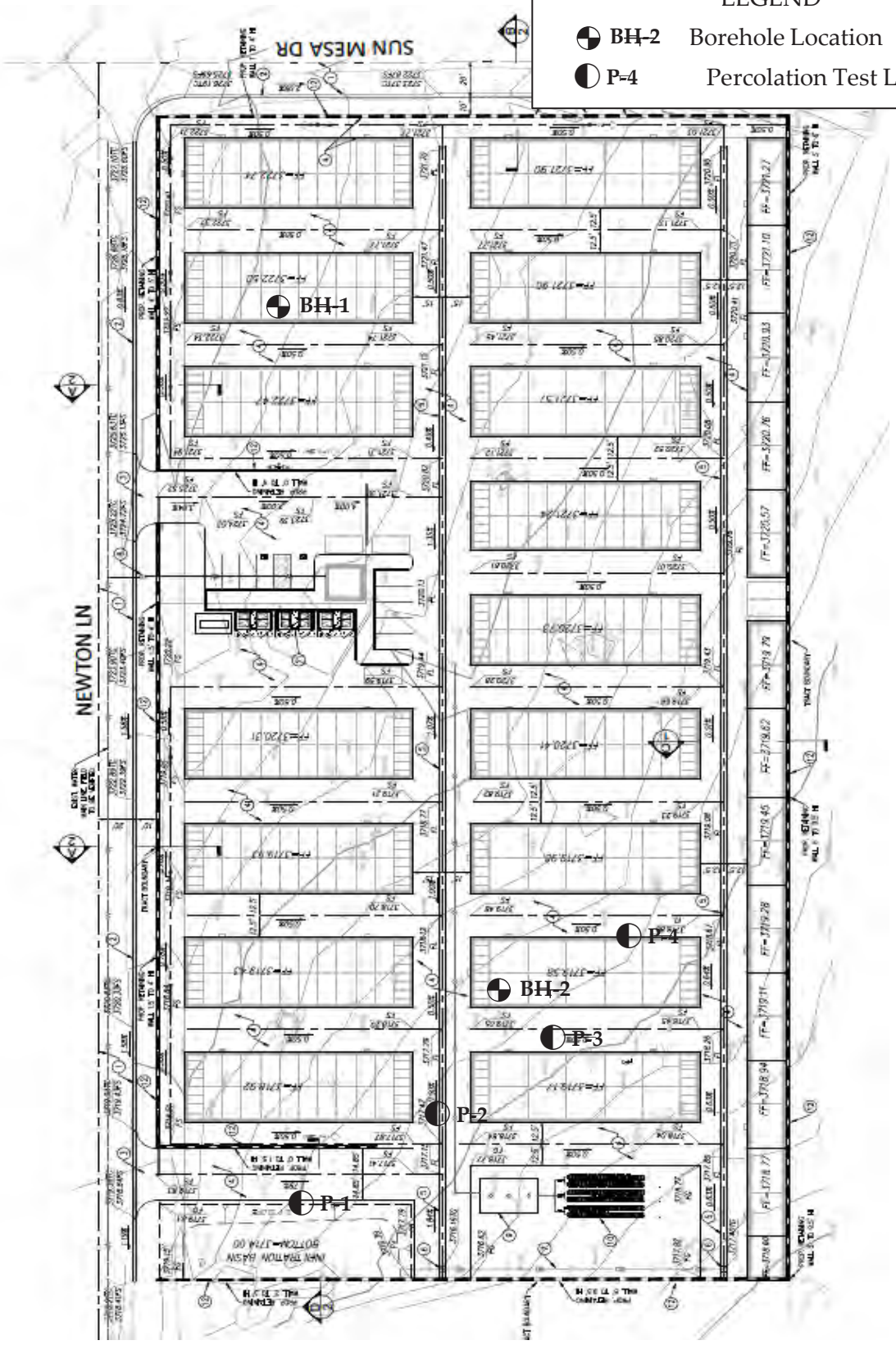
Perc/mc
PDF/Addressee

SITE LOCATION MAP
REGIONAL GEOLOGIC MAP
EXPLORATION LOCATION PLAN
OWTS PLAN

Sladden Engineering	SITE LOCATION MAP		FIGURE 1
	Project Number:	544-24365	
	Report Number:	25-01-007	
	Date:	January 14, 2025	



Sladden Engineering	REGIONAL GEOLOGIC MAP	FIGURE 2
	Project Number: 544-24365	
	Report Number: 25-01-007	
	Date: January 14, 2025	



EXPLORATION LOCATION PLAN

FIGURE 3

Project Number:	544-24365
Report Number:	25-01-007
Date:	January 14, 2025

Sladden Engineering

PRELIMINARY GRADING PLAN

SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67

LEGAL DESCRIPTION:

TR 8749, MB 120/50-64 SEC. 13, T1N, R5E., S.B.B.&M.
APN: 0597-111-67

BASIS OF BEARING :

THE SOUTHWEST 1/4 OF SECTION 13 PER TRACT 8749, MB 120/50-64 SAID BEARING BEING N00°00'08"E

BENCHMARK :

USGS BM 705 24
ELEVATION = 3718.55 FEET, NAVD 88

OWNER/DEVELOPER

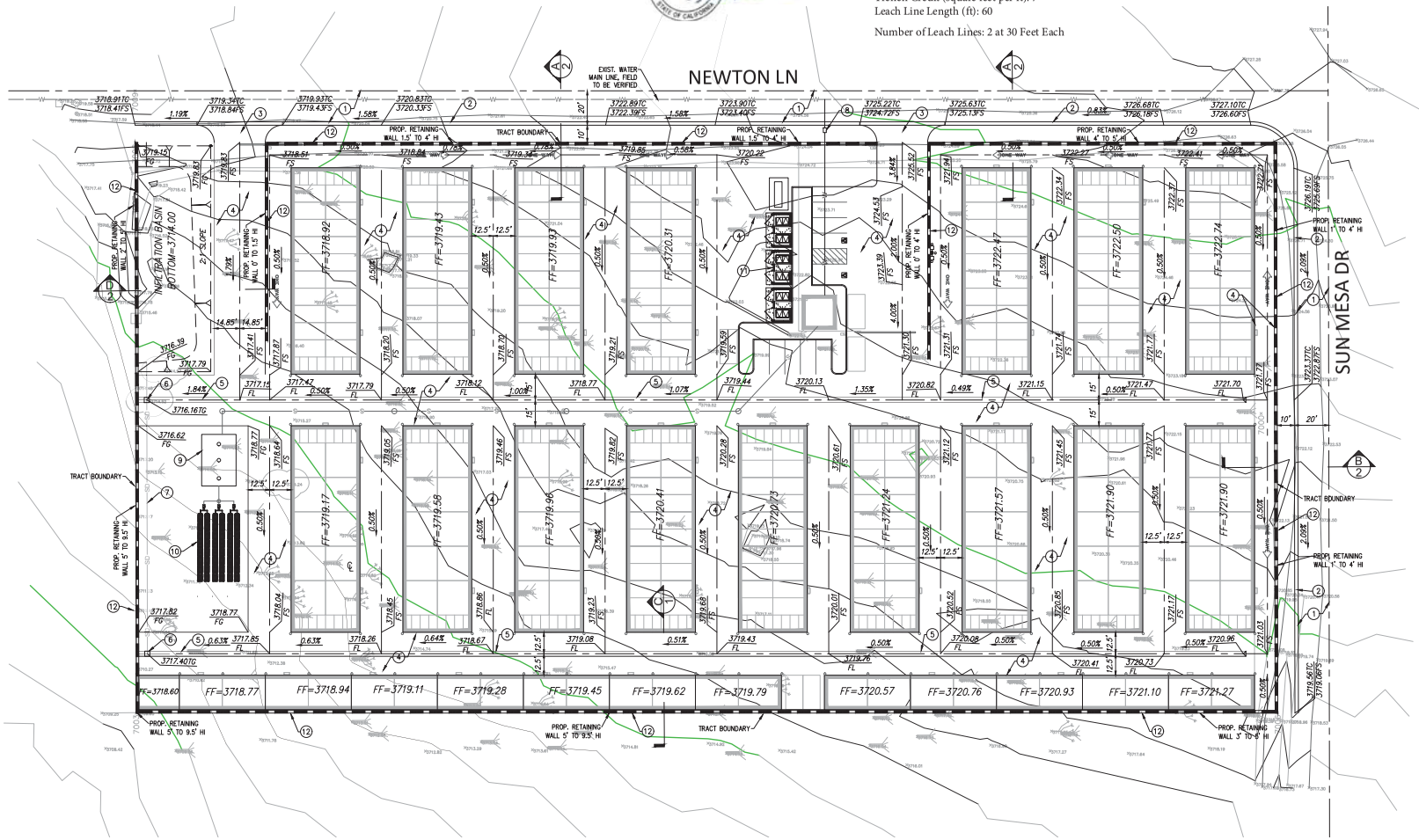
ROB BILLINGS
5024 WALLABY STREET
YUCCA VALLEY CA 92284
760-686-4171
BILLINGSTRANSFER@YAHOO.COM

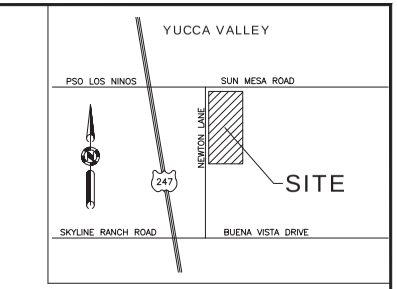
TOPOGRAPHY:

PREPARED BY:
LSAP CONSULTANTS LLC.
ADDRESS: 14997 MCGARGER RD
DESERT HOT SPRINGS , CA 92240
(760) 288-2232
SURVEY@LSAPCONSULTANTS.COM
DATE OF SURVEY JAN 2022

OWTS DESIGN
Standard Design (Three (3) Feet of Gravel @ Bottom of Leach Lines)
Fixture Units Served: 10
Design Rate (ft2 per 100 gstc): 55.3
Application Rate (square feet/gal/day): 0.83
Estimated Gallons of Effluent Per Day: 500
Gallons of Septic Tank Capacity: 750
Absorption Area (square feet): 415
Trench Credit (square feet per ft): 7
Leach Line Length (ft): 60

Number of Leach Lines: 2 at 30 Feet Each





VICINITY MAP
NTS

LEGEND:

	CENTERLINE	EP	EDGE OF PAVEMENT
	PROPERTY LINE	FF	FINISHED FLOOR
W	WATER LINE	FG	FINISHED GROUND
S	SEWER LINE	FL	FLOW LINE
ONE	ELECTRIC LINE	FS	FINISHED SURFACE
		GB	GRADE BREAK
GAS GAS	GAS LINE	HP	HIGH POINT
X	EXIST. CHAIN LINK FENCE	INV	INVERT ELEVATION
	EXIST. WOOD FENCE	PAD	PAD ELEVATION
	EXIST. BLOCK WALL	RET.	RETAINING WALL
94.4	EXIST. CONTOUR LINE	TC	TOP OF CURB
945.0 FS	EXIST. SPOT ELEVATION	TG	TOP OF GRATE
	EXIST. FIRE HYDRANT		
	EXIST. POWER POLE		
	EXIST. SEWER MANHOLE		
	EXIST. STORM DRAIN MANHOLE		
	EXIST. WATER METER		
	EXIST. WATER VALVE		
	EXIST. TREE		

CONSTRUCTION NOTE:

1. PROPOSED AC PAVEMENT
2. PROPOSED 6" CURB AND GUTTER
3. PROPOSED DRIVEWAY APPROACH
4. PROPOSED CONC. PAVEMENT
5. PROPOSED CONC. RIBBON GUTTER
6. PROPOSED 36"X36" CATCH BASIN WITH TRAFFIC RATED STEEL GRATE
7. PROPOSED 18" RCP
8. PROPOSED 1" SERVICE METER
9. PROPOSED SEPTIC TANK
10. PROPOSED LEACH FIELD
11. TRASH ENCLOSURE
12. PROPOSED RETAINING WALL

EARTHWORK VOLUMES:

TOTAL CUT = 4970 CY
TOTAL FILL = 4485 CY

** SEE EARTHWORK EXHIBIT FOR INFORMATION ON CUT-FILL BY LOCATION MAP.*

NORTH
0 15' 30' 60'
SCALE: 1"=30'

SHEET 1 OF 2

DRP ENTERPRISES LLC
Daniel Patneaude
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Joanne C. Singer RCE 26900
760-625-7426

BORELOGS

Sladden Engineering

BORE LOG

Equipment:	Mobile B-61	Date Drilled:	12/3/2024
Elevation:	3,725 Ft. MSL	Boring No:	BH-1

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
■	14 14 17						2		Silty Sand (SM); strong brown, dry, medium dense, fine- to coarse-grained (Qoa).
■	13 16 11						4 6 8		Silty Sand (SM); strong brown, dry, medium dense, fine- to coarse-grained with calcium carbonate (Qoa).
▪	5 7 8						10 12 14		Sand (SW); strong brown, dry, medium dense, fine- to coarse-grained with gravel (Qoa).
■	12 14 16						16 18		Silty Sand (SM); strong brown, dry, medium dense, fine- to coarse-grained with gravel and calcium carbonate (Qoa).
▪	10 13 13						20 22		Silty Sand (SM); strong brown, dry, medium dense, fine- to coarse-grained with gravel and calcium carbonate (Qoa).
							24 26 28 30 32 34 36 38 40 42 44 46 48 50		Terminated at ~21.5 Feet bgs. No Bedrock Encountered. No Groundwater Encountered.

Completion Notes:

PROPOSED SELF STORAGE FACILITY
SUN MESA DRIVE; APN 0597-111-67

Project No:	544-24365	Page	1
Report No:	25-01-007		

Sladden Engineering

BORE LOG

Equipment:	Mobile B-61	Date Drilled:	12/3/2024
Elevation:	3,725 Ft. MSL	Boring No:	BH-2

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							0		Silty Sand (SM); strong brown, dry, fine- to coarse-grained (Qoa).
							2		
							4		
	15 16 13						6		Silty Sand (SM); strong brown, dry, medium dense, fine- to coarse-grained with calcium carbonate (Qoa).
							8		
	11 16 20						10		Sand (SW); strong brown, dry, medium dense, fine- to coarse-grained with calcium carbonate webbing (Qoa).
							12		
							14		
	7 9 11						16		Silty Sand (SM); light brown, dry, medium dense, fine- to coarse-grained (Qoa).
							18		Terminated at ~16.5 Feet bgs. No Bedrock Encountered. No Groundwater Encountered.
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED SELF STORAGE FACILITY
SUN MESA DRIVE; APN 0597-111-67

Project No: 544-24365
Report No: 25-01-007

Sladden Engineering

BORE LOG

Equipment:	Mobile B-61	Date Drilled:	12/3/2024
Elevation:	3,725 Ft. MSL	Boring No:	P-1

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); strong brown, dry, medium dense, fine- to coarse-grained (Qoa).
							4		
							6		Terminated at ~5.0 Feet bgs. No Bedrock Encountered. No Groundwater Encountered.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED SELF STORAGE FACILITY
SUN MESA DRIVE; APN 0597-111-67

Project No: 544-24365
Report No: 25-01-007

Sladden Engineering

BORE LOG

Equipment:	Mobile B-61	Date Drilled:	12/3/2024
Elevation:	3,725 Ft. MSL	Boring No:	P-2

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); strong brown, dry, medium dense, fine- to coarse-grained (Qoa).
							4		
							6		Terminated at ~5.0 Feet bgs. No Bedrock Encountered. No Groundwater Encountered.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
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							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED SELF STORAGE FACILITY
SUN MESA DRIVE; APN 0597-111-67

Project No: 544-24365
Report No: 25-01-007

Sladden Engineering

BORE LOG

Equipment:	Mobile B-61	Date Drilled:	12/3/2024
Elevation:	3,725 Ft. MSL	Boring No:	P-3

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); strong brown, dry, medium dense, fine- to coarse-grained (Qoa).
							4		
							6		Terminated at ~5.0 Feet bgs. No Bedrock Encountered. No Groundwater Encountered.
							8		
							10		
							12		
							14		
							16		
							18		
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							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED SELF STORAGE FACILITY
SUN MESA DRIVE; APN 0597-111-67

Project No:	544-24365	Page	5
Report No:	25-01-007		

Sladden Engineering

BORE LOG

Equipment:	Mobile B-61	Date Drilled:	12/3/2024
Elevation:	3,725 Ft. MSL	Boring No:	P-4

Sample	Blow Counts	Bulk Sample	Expansion Index	% Minus #200	% Moisture	Density, pcf	Depth (Feet)	Graphic Lithology	Description
							2		Silty Sand (SM); strong brown, dry, medium dense, fine- to coarse-grained (Qoa).
							4		
							6		Terminated at ~5.0 Feet bgs. No Bedrock Encountered. No Groundwater Encountered.
							8		
							10		
							12		
							14		
							16		
							18		
							20		
							22		
							24		
							26		
							28		
							30		
							32		
							34		
							36		
							38		
							40		
							42		
							44		
							46		
							48		
							50		

Completion Notes:

PROPOSED SELF STORAGE FACILITY
SUN MESA DRIVE; APN 0597-111-67

Project No: 544-24365
Report No: 25-01-007

LEACH LINE DATA SHEETS

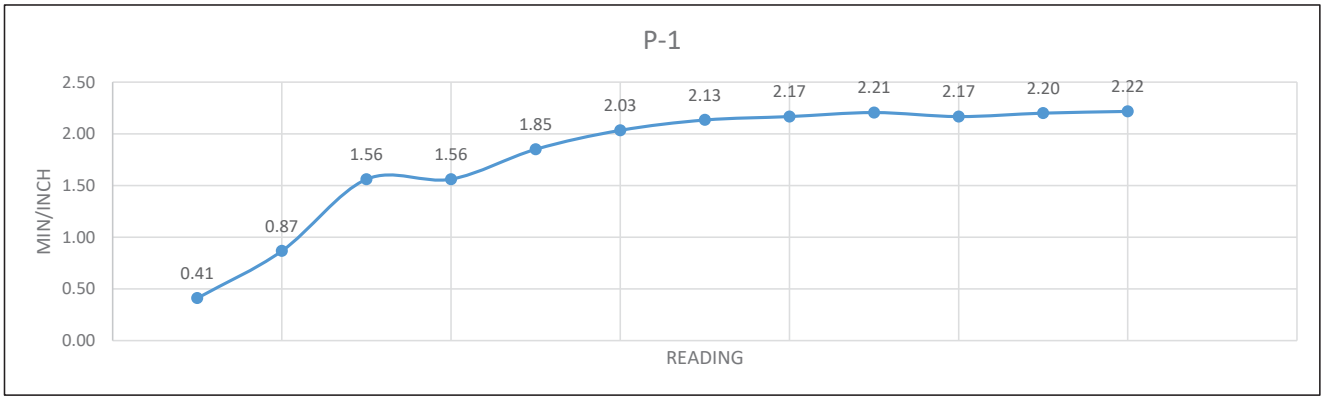
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Project: PROPOSED STORAGE FACILITY
Job No. : 544-24365
Date: 01/7/2025
Test Hole #: P-1
Depth (ft): 5.00
Disposal Area: FAVORABLE
USCS Soil Class: SM
Tested By: R.F.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	8:00:00	8:04:06	0:04:06	5.00	12	2	10	0.41
B	8:06:00	8:14:40	0:08:40	5.00	12	2	10	0.87
C	8:16:00	8:23:48	0:07:48	5.00	8	3	5	1.56

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	8:26:00	8:30:41	0:04:41	5.00	8	5	3	1.56
2	8:32:00	8:37:33	0:05:33	5.00	8	5	3	1.85
3	8:39:00	8:45:06	0:06:06	5.00	8	5	3	2.03
4	8:47:00	8:53:24	0:06:24	5.00	8	5	3	2.13
5	8:55:00	9:01:30	0:06:30	5.00	8	5	3	2.17
6	9:03:00	9:09:37	0:06:37	5.00	8	5	3	2.21
7	9:11:00	9:13:10	0:02:10	5.00	8	7	1	2.17
8	9:15:00	9:17:12	0:02:12	5.00	8	7	1	2.20
9	9:19:00	9:21:13	0:02:13	5.00	8	7	1	2.22

*Initial Water level of 8-inches



Rate (Min/Inch): 2.22

Sladden Engineering

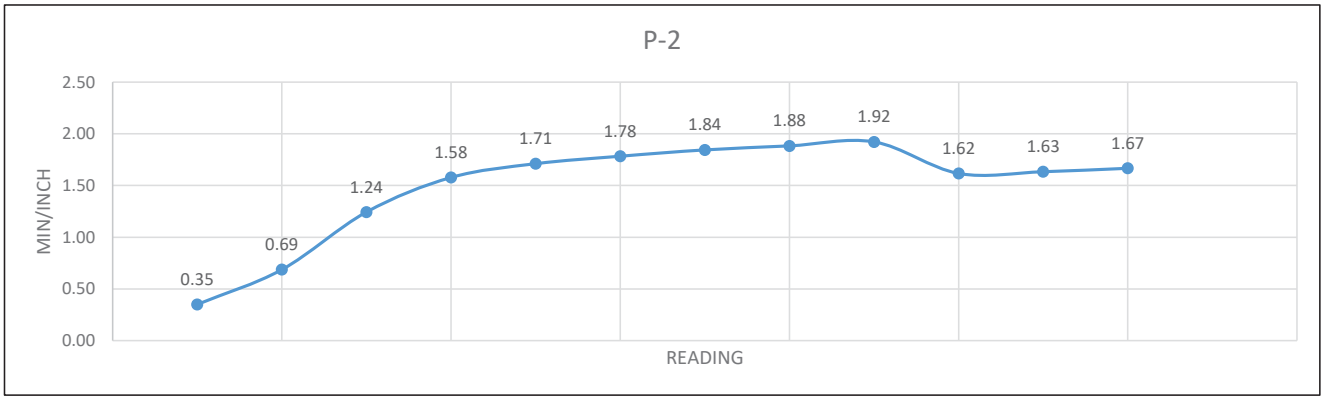
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Project: PROPOSED STORAGE FACILITY
Job No. : 544-24365
Date: 01/7/2025
Test Hole #: P-2
Depth (ft): 5.00
Disposal Area: FAVORABLE
USCS Soil Class: SM
Tested By: R.F.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	9:25:00	9:28:30	0:03:30	5.00	12	2	10	0.35
B	9:30:00	9:36:52	0:06:52	5.00	12	2	10	0.69
C	9:38:00	9:44:13	0:06:13	5.00	8	3	5	1.24

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	9:46:00	9:50:44	0:04:44	5.00	8	5	3	1.58
2	9:52:00	9:57:08	0:05:08	5.00	8	5	3	1.71
3	9:59:00	10:04:21	0:05:21	5.00	8	5	3	1.78
4	10:06:00	10:11:32	0:05:32	5.00	8	5	3	1.84
5	10:14:00	10:19:39	0:05:39	5.00	8	5	3	1.88
6	10:21:00	10:26:46	0:05:46	5.00	8	5	3	1.92
7	10:28:00	10:29:37	0:01:37	5.00	8	7	1	1.62
8	10:31:00	10:32:38	0:01:38	5.00	8	7	1	1.63
9	10:34:00	10:35:40	0:01:40	5.00	8	7	1	1.67

*Initial Water level of 8-inches



Rate (Min/Inch): 1.67

Sladden Engineering

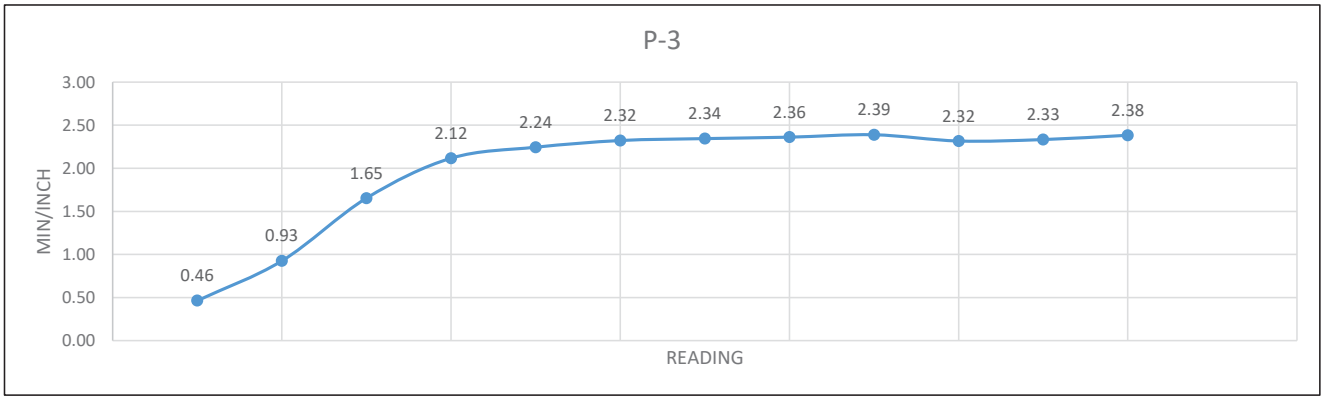
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Project: PROPOSED STORAGE FACILITY
Job No. : 544-24365
Date: 01/7/2025
Test Hole #: P-3
Depth (ft): 5.00
Disposal Area: FAVORABLE
USCS Soil Class: SM
Tested By: R.F.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	10:37:00	10:41:38	0:04:38	5.00	12	2	10	0.46
B	10:43:00	10:52:15	0:09:15	5.00	12	2	10	0.93
C	10:54:00	11:02:16	0:08:16	5.00	8	3	5	1.65

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	11:04:00	11:10:21	0:06:21	5.00	8	5	3	2.12
2	11:12:00	11:18:44	0:06:44	5.00	8	5	3	2.24
3	11:20:00	11:26:58	0:06:58	5.00	8	5	3	2.32
4	11:28:00	11:35:02	0:07:02	5.00	8	5	3	2.34
5	11:37:00	11:44:05	0:07:05	5.00	8	5	3	2.36
6	11:45:00	11:52:10	0:07:10	5.00	8	5	3	2.39
7	11:54:00	11:56:19	0:02:19	5.00	8	7	1	2.32
8	11:58:00	12:00:20	0:02:20	5.00	8	7	1	2.33
9	12:02:00	12:04:23	0:02:23	5.00	8	7	1	2.38

*Initial Water level of 8-inches



Rate (Min/Inch): 2.38

Sladden Engineering

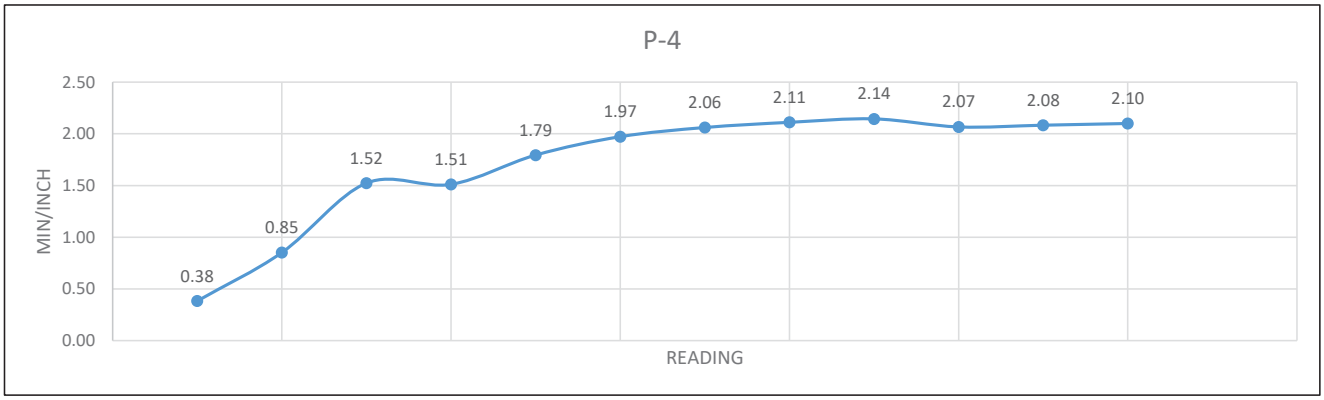
SAN BERNARDINO COUNTY LEACH LINE DATA SHEETS

Project: PROPOSED STORAGE FACILITY
Job No. : 544-24365
Date: 01/7/2025
Test Hole #: P-4
Depth (ft): 5.00
Disposal Area: FAVORABLE
USCS Soil Class: SM
Tested By: R.F.

READING	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
A	12:40:00	12:43:50	0:03:50	5.00	12	2	10	0.38
B	12:46:00	12:54:31	0:08:31	5.00	12	2	10	0.85
C	12:56:00	13:03:37	0:07:37	5.00	8	3	5	1.52

READING*	START TIME	END TIME	ELAPSED TIME (h:m:s)	DEPTH (ft)	INITIAL W (in)	FINAL W (in)	ΔW (in)	Min/Inch
1	13:05:00	13:09:32	0:04:32	5.00	8	5	3	1.51
2	13:11:00	13:16:23	0:05:23	5.00	8	5	3	1.79
3	13:18:00	13:23:55	0:05:55	5.00	8	5	3	1.97
4	13:26:00	13:32:11	0:06:11	5.00	8	5	3	2.06
5	13:34:00	13:40:20	0:06:20	5.00	8	5	3	2.11
6	13:42:00	13:48:26	0:06:26	5.00	8	5	3	2.14
7	13:50:00	13:52:04	0:02:04	5.00	8	7	1	2.07
8	13:54:00	13:56:05	0:02:05	5.00	8	7	1	2.08
9	13:58:00	14:00:06	0:02:06	5.00	8	7	1	2.10

*Initial Water level of 8-inches



Rate (Min/Inch): 2.10

Sladden Engineering

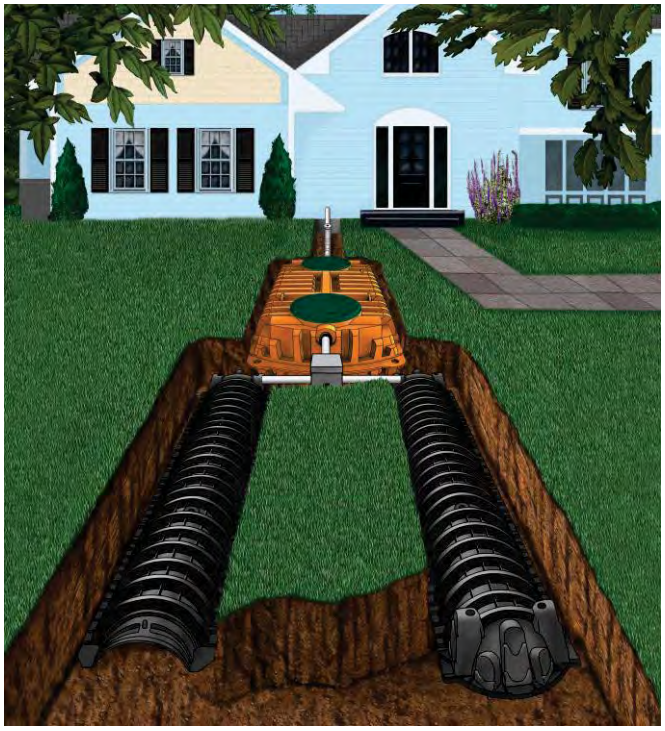
TAKING CARE OF YOUR SEPTIC SYSTEM

SAN BERNARDINO COUNTY

www.SBCounty.gov

TAKING CARE OF YOUR SEPTIC SYSTEM

WHAT YOU NEED TO KNOW



DEPARTMENT OF PUBLIC HEALTH
DIVISION OF ENVIRONMENTAL HEALTH SERVICES
385 N Arrowhead Ave., 2nd Floor
San Bernardino, CA 92415
1-800-442-2283

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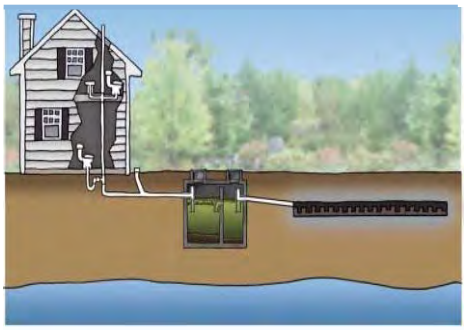
Reading this brochure could save you a lot of money, time, and trouble. By learning how to take care of your septic system, you can protect your family's health and the value of your home. You can also protect the environment, including your drinking water, from contamination caused by your septic system.

What Is A Septic System?

A septic system is made up of a septic tank and a leachline or seepage pit (dispersal soil absorption area) buried in the ground near your home. This system treats wastewater and sewage from your toilets, showers, washing machines, garbage disposals, kitchens, etc., where public sewer systems are not available.



The septic tank is a concrete, fiberglass, Polyethylene or steel box about nine feet long and five feet deep and wide. The tank is usually buried about five feet from the house under one to three feet of soil. The leachline is a gravel-filled underground trench, whereas a seepage pit is a vertical hole in the ground with a concrete block lid and walls that are covered with soil. The pit measures 4-6 feet in diameter and 15-40 feet deep.

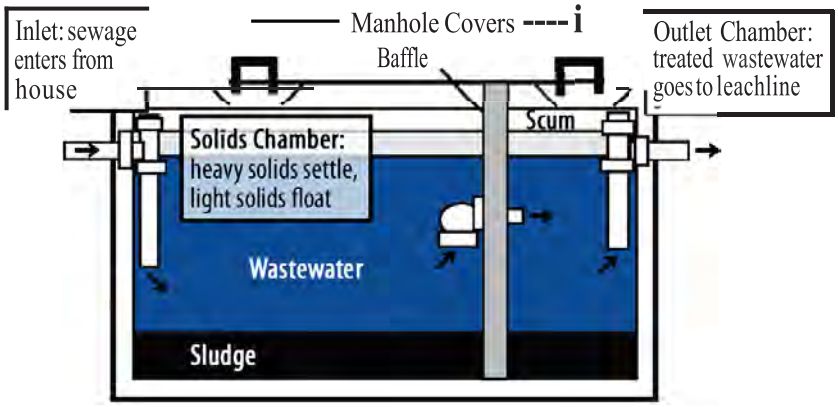
What Does A Septic System Do?

A septic tank has three main functions to:

1) Remove and treat greases and solids in the wastewater;
2) Store greases and solids until they are removed by a professional septic tank pumper; and
3) Slowly release wastewater to a dispersal system so it can be absorbed by the soil.

Wastewater from your home flows into a two-chamber septic tank. In the first solids chamber, greases and light solids in the water rise to the surface of the liquid, forming a scum layer, while heavier materials sink to the bottom and form a sludge layer. Anaerobic bacteria digest (break down) solids in the sludge layer to reduce sludge buildup. The third layer is the clarified wastewater which flows to the second liquids chamber where further settling occurs.

Typical Concrete Septic Tank



The treated wastewater flows from the liquid chamber to the dispersal soil absorption area, where it seeps down into the soil. Bacteria trapped in the soils continue treating the wastewater. Every time raw sewage flows into the tank, an equal amount of treated wastewater flows out.

What Could *Go* Wrong?

Septic Tank Failure

Ignoring your septic system could cost you thousands of dollars for repair or replacement. If your tank is not pumped regularly, scum and sludge will fill up the tank, overflow into the dispersal

area and plug up the soil. This causes the leachline to fail and the wastewater to rise to the surface of the ground. Failure of a leachline means a new leachline or seepage pit must be constructed with a permit from the County or City Building and Safety Department.

Other factors can also cause septic system failure. Wasting water, or even too many people living in the house, can cause a septic system to fail. Your septic system was designed according to the number of bedrooms in the home with an average of two people per bedroom. Because the soil can only absorb a limited amount of water, conserving water can help you stay under the daily limit.

This chart shows how much wastewater your tank can process in a 24-hour period:

Bedrooms	Estimated Gallons of Wastewater per Day	Septic Tank Capacity in Gallons
1-2	500	750
3	670	1000
4	800	1200
5-6	1000	1500

Water draining into the leachline from gutters, or even heavy rains, can overload the system and cause it to fail.

Health Hazard

Failure of a septic system is a serious health hazard and could threaten the health of your family and neighbors. Children and adults could come in contact with raw (untreated) sewage. Pets, insects, rodents, and birds could pick up and carry disease causing organisms to you and your family. Furthermore, it usually stinks.

Water Contamination

The first sign of failure is sewage where you don't want it, such as:

- Sewage running into the tub when you flush the toilet
- Sewage rising to the surface of the ground above the leachline, especially after storms
- Slow draining toilets/drains or toilets that won't flush
- Gurgling sounds in pipes and drains
- Mushy ground or lush, green grass near septic system area
- Strong sewage odors and possible complaints from your neighbors

What Can I Do? Important Ways to Keep Your Septic System Running Well

Do **have your tank pumped by a County-licensed septic tank pumper every two to four years.** Have both compartments pumped. To see if your tank needs to be pumped, remove the manhole cover at the inlet end (the end closest to the house). Use a shovel to push the scum layer away from the side of the tank to estimate its thickness. If the scum layer is more than one foot thick, have your tank pumped immediately! Replace the manhole cover and wash your hands and shovel. Yearly inspection of the septic tank is strongly recommended. Check your phone book yellow pages for a licensed Septic Tank Pumper. If your tank does not have risers to grade, install them over both chambers.

Do **keep a record of all pumpings, inspections, installations and other maintenance.** Keep this brochure and use the back page to record this information. This record should remain in the

house, even if you move. If you buy a house with a septic system, make sure you get a record and layout from the owner. They are responsible for keeping the records.

Do **call your City or County Building and Safety Department if your system fails within five years of the installation date.** This could mean your system was not designed, constructed or installed properly. DEHS does not have final plans on what was installed.

Do **find out where your septic tank and leachline are.** Your licensed pumper can help you draw a sketch of the septic system layout, including the location of the manholes, tank, piping and leachline. Remember, pumping your tank or installing a new leachline will cost more if the pumpers or contractors have to dig and search for the tank or leachline. Also, install an effluent filter on the outlet line to prevent solids from plugging the soil.

Do **conserve water.** Repair dripping faucets and leaking toilets. Avoid taking long showers and use water saving toilets, shower heads and faucets. Don't leave faucets running for long periods of time. Use your dishwasher or clothes washer only when the machine has a full load. Using your garbage disposal will also fill up your septic tank much faster.

Do **use bleach, disinfectants, and drain/toilet bowl cleaners sparingly and according to labels.** Take your leftover household hazardous chemicals to a Household Hazardous Waste Collection Center. For more information on household hazardous waste disposal call (909) 382-5401.

Do **reserve additional land equal to or larger than your present septic system area for future use.** This is needed when the original system fails. Do not build over the existing system or expansion area.

Tips to Avoid Trouble

Do Not **wait until your septic system fails to have your tank pumped.** It is cheaper and easier to prevent system failure than to correct a failed system or to install a new system. Remember, once the leachline is clogged, cleaning the tank will do little good. You will need a new leaching area.

Do Not **waste money on chemical, yeast, bacteria or enzyme additives.** These products have been evaluated by the EPA and it has been determined that they usually don't prevent problems. These products could hurt your system in the long run, or even contaminate groundwater. Only regular tank pumpings by professional licensed septic tank pumpers can help.

Do Not **destroy an old, failed leachline.** It may be used again by letting the old leachline dry out, or rest, for three to five years. DEHS recommends installing a diversion valve when your new leachline is built to change the flow of wastewater from the new line to the old line. After the three to five year waiting period, you can release the wastewater to the new line on even-numbered years and to the old line on odd-numbered years. If you let a leaching area rest every other year and have your septic tank pumped regularly, the leachline(s) should last the life of your home or building.

Do Not **allow anyone to drive, park or pave over any part of the system.** Traffic vibration or heavy weight could damage pipes and your seepage pits. The area over the leachline should be left undisturbed with only a mowed grass cover. Keep trees and shrubs away from your septic system area. Their roots could clog or damage your leachline(s).

Do Not **use your toilet and sink as a trash can to dump non- degradable (things that do not dissolve).** Keep things like vegetable trimmings, cooking oils, greases, coffee grounds, cigarette butts, Kleenex, paper towels, disposable diapers, and sanitary pads out of your septic tank. Use good quality white toilet paper that breaks up easily when wet. Dyes from colored toilet paper can hurt the bacteria.

Do Not **contaminate the groundwater or harm your septic system by pouring harmful chemicals down the drain or toilet.** Large amounts of cleaning products can kill the good bacteria in your septic tank that treat wastewater. Read the instructions on the labels and use only as directed.

KEEP THESE MATERIALS OUT OF YOUR SEPTIC SYSTEMS!

Non-degradable: grease, paper towels, plastics, coffee grounds, cigarette butts, disposable diapers, etc.

Hazardous Waste: paints and paint thinners, used motor oil, pesticides, antifreeze, weed killers, etc.

WHERE IS MY SEPTIC SYSTEM?

One method to locate a septic tank is by probing with a metal rod or by listening to the noise a plumber's snake makes when it contacts the tank inlet. Care must be utilized during the probing as it may damage the inlet fitting or piping.

Another method is by making a water probe with *W'* X 6' galvanized water pipe or PVC, threaded on one end. Purchase a pipe-to-hose fitting or use duct tape as a temporary fitting. Turn the water on and sink the probe into the ground. The water will do the digging. Set up a grid pattern and probe every 1 to 2 feet until the tank is found. The top of the septic tank is usually 2 to 4 feet beneath the surface. Legally, septic tanks can be no closer than 5 feet from the house so begin probing 6 to 7 feet from the house. Typically, the septic tank is in the front yard but the system might be in the rear yard or even under a patio slab.

SAVE THESE IMPORTANT SEPTIC SYSTEM RECORDS!

SEPTIC TANK ADDRESS:

_____

_____

_____

SEPTIC TANK Installation Date/Size (gallons)	CONTRACTOR Name/Phone Number

SEPTIC TANK/SEEPAGE PIT PUMPING

_____

_____

_____

_____

_____

_____

LEACHLINES/SEEPAGE PIT

Installation Dates/Length, Width, Depth of Rock

_____

_____

_____

_____

_____

_____

_____

SAN BERNARDINO
COUNTY

Department of Public Health | Division of Environmental Health Services | 800-442-2283 | www.SBCounty.gov/dph/dehs

APPENDIX G2

DRAINAGE STUDY

Drainage Study

For

Sun Mesa Road,

Yucca Valley, CA 92284

Datum: NAVD88

Prepared by:
DRP Enterprises LLC
PO Box 4428
Palm Springs, CA 92263

Prepared: November 10, 2024

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1.Purpose and Scope

A drainage study is required for developments exceeding 10,000 square feet or 0.23 acre as part of the Conditional Use Permit process. This report summarizes the hydrologic analyses conducted to determine the necessary drainage improvements needed to provide flood protection for the proposed development and to safely convey runoff through the site during a 100-year storm event. The study also assesses whether the 100-year storm flows from the on-site projected development will create any significant runoff.

2. Background

2.1. Site Description

Location: The project site encompasses approximately 4.34 acres and includes parcel APN 059711167, owned by the Robert Billings. It is situated in a desert area near Sun Mesa Road in Yucca Valley, California.

Soil Classification (See Exhibit E): According to the San Bernardino County (SBC) Hydrology Manual Soil Group Map, the project site is classified as **"Group B"** soil. In the absence of detailed site-specific soil data, this classification is applied to ensure accurate analysis. Group B soils are characterized by moderate infiltration rates when thoroughly wetted, consisting primarily of moderately deep to deep, moderately well-drained to well-drained sandy-loam soils with moderately fine to moderately coarse textures. These soils also exhibit a moderate rate of water transmission.

Flood Plain Information (See Exhibit O and Exhibit P): Per Firmette No. 06071C8120H, issued by the Federal Emergency Management Agency (FEMA) on June 28, 2008, the project site is designated as FEMA **"Zone X,"** indicating minimal flood hazard. Although not located within the 100-year floodplain according to the Department of Water Resources (DWR) Map, the site may have some flood risk due to the presence of levees, as outlined by the National Flood Insurance Program. Additional details are provided in Exhibit O and Exhibit P.

Zoning and Land Use (See Attachment 2 and Attachment 3): The project site is located within the Industrial Zone of the Town of Yucca Valley. According to Section 9.10.030 of the Yucca Valley, California Code of Ordinances, the development standards for this zoning district require a minimum lot area of 5 acres, with a minimum width of 60 feet and a depth of 100 feet.

2.2. Existing Condition (See Exhibit A)

The project site is located in a semi-arid region with rugged desert terrain, featuring irregular slopes and varying topographic features. The soil gradient across the site varies, with the steepest slopes observed in the middle section, ranging from 6.10% to 12.50%, and in the southern section, where slopes range from 2.60% to 14.0%. The flatter areas of the site have more gradual slopes, ranging from 0.1% to 5.0%. The property spans approximately 4.34 acres, with the natural flow path directing runoff from the northwest toward the east and southeast, as shown in Exhibit A.

As depicted in Exhibit A, the basin flows into the site, splitting into two sub-basins that direct flow into the area. These sub-basins include Basin A (6.94 acres) and Basin B (10.0 acres). Additionally, the off-site portions of these sub-basins, Off-A (4.48 acres) and Off-B (7.89 acres), channel stormwater from the northwest and west toward the project site.

3. Hydrology

3.1. Purpose

This hydrological analysis aims to evaluate stormwater flow patterns within the existing site, as well as its contributing off-site areas. A flow path has been established, and the contributing basin has been divided into smaller sub-basin to gain a clearer understanding of localized stormwater runoff behavior. Each sub-watershed was analyzed to determine its individual contribution to the overall flow path. The peak flow for each sub-basin has been estimated in accordance with the SBC Hydrology Manual, utilizing the 100-year peak flow.

3.2. Methodology

Area Delineation

The project site and its surrounding area were delineated into two basins, Basin A and Basin B, which extend beyond the project boundary. Basin A and Basin B required separate analyses for both off-site and on-site areas. This study primarily aimed to determine the on-site discharge and assess the potential impact of storm events on the project area. The contour and Digital Elevation Model (DEM) data used for this analysis were obtained from the United States Geological Survey (USGS), which provided critical elevation information for accurate hydrological modeling.

Discharge Calculation

To determine the on-site discharge, the following equation was applied: the discharge of the basin (Q) minus the off-site inflow (Qoffsite). This approach considers the total discharge generated by the larger basins that extend beyond the project site (Basin-A and Basin-B). The off-site inflow, representing the portion of runoff originating from areas outside the project boundary, was subtracted from the overall basin discharge. This calculation isolates the on-site discharge, providing an accurate representation of how much runoff will affect the project area during the 100-year storm event.

By using this method, the discharge values for both on-site and off-site areas were distinguished, allowing for a focused analysis of the direct hydrological impact on the project site.

Time of Concentration

The Time of Concentration (Tc) and Peak Flow rates were calculated based on SBC Hydrology Manual sections D.3 and E. Section D.3 was used for drainage areas less than 640 acres, while Section E applied to areas larger than 640 acres. The methods and equations employed for these calculations are detailed in subsequent sections.

This comprehensive methodology ensured that both on-site and off-site hydrological effects were thoroughly analyzed, providing a reliable basis for understanding potential stormwater impacts on the project area.

Areas Less than 640 acres

1. Determine the area (A, acres) of the total watershed tributary to the point of concentration.
2. Determine the Initial time of concentration, Tc, using Figure D-1. Initial Sub-area should be less than 10 acres, have a flow path of less than 1,000 feet.
3. Using the time of concentration, determine the Intensity of rainfall in inches per hour (I) from the appropriate intensity-duration curve for the particular area using Figure D-3.
4. Calculate the area-averaged maximum loss rate, F_m, which corresponds to the soil group, cover complex, and imperviousness of the drainage subarea. Loss rates for the pervious area, F_p, follow from section C.6.4.
5. Compute Peak flow, Q for the point of concentration

The modified rational method formula is expressed as:

$$\boldsymbol{Q = CIA}$$

$$\boldsymbol{C = 0.90\left\{a_i + \left[\frac{(I - F_p)(a_p)}{I}\right]\right\}, for\ I\ greater\ than\ F_p}$$
$$\boldsymbol{= 0.90 a_i, for\ I\ less\ than\ or\ equal\ to\ F_p}$$

Where,

Q = Peak discharge, in cubic feet per second (cfs)

C = Runoff Coefficient, portion of rainfall that runs off the surface (no units)

I = Average Rainfall Intensity (in inches/hour) for a duration equal to the Tc for the area

A = Area of Lot in acre

Note: If the computed Tc is less than 5 minutes, use 5 minutes for the peak discharge, Q.

3.3. Existing Condition

Basin Hydrology

Refer to Existing condition drainage patterns in Exhibit A.

Each basin was evaluated for the 100-year storm event, with peak flow rates and times of concentration (Tc) calculated to assess their contribution to the site's overall drainage and potential flood risk.

Basin-A, spanning 6.94 acres, has a flow path of 979 feet with an elevation difference of 29.70 feet. The time of concentration (Tc) for the 100-year storm event was calculated to be 9.50 minutes, resulting in a peak flow rate of 24.05 cubic feet per second (cfs). The relatively short Tc and moderate elevation change highlight the basin's potential for swift runoff response during intense storm events.

Basin-B, the largest basin, covers an area of 10 acres and features a flow path of 1,000 feet with an elevation difference of 22.80 feet. Its time of concentration (Tc) was determined to be 10 minutes for the 100-year storm event, producing a peak flow rate of 33.40 cubic feet per second (cfs). The size of this basin and its peak flow rate emphasize the importance of comprehensive flood management strategies to handle substantial runoff contributions.

Each basin was carefully analyzed to understand the flow dynamics during major storm events. The results emphasize the differing contributions of each basin, with Basin-B being the largest runoff contributor. This hydrologic analysis is crucial for designing effective flood mitigation strategies and ensuring the site's drainage system can manage stormwater runoff efficiently.

Detailed calculations are provided in the following subsection.

Parameters and Calculations

Time of Concentration, minutes: Time of concentration (Tc) calculations were performed using Nomograph for Determination of Time of Concentration (Tc) (based in Kirpich Formula) or Travel Time (Tt) for Natural Watersheds (**See** – **Exhibit F**).

Table 1 – Basin Time of Concentration

Drainage Area	Area (AC)	Flow Path (ft)	Elevation Diff (ft)	Soil Runoff Index Value	Infiltration Rate, F_p	Time of Conct. (min)
Basin-A	6.94	979	29.70	56	0.268	25.90
Basin-B	10.00	1000	22.80	56	0.268	24.40

Soil Group: San Bernardino County Hydrology Manual was used to determine soil types. Based on San Bernardino County Hydrology Manual (**Exhibit E**), the project site is classified as '**soil type B**'.

Cover Type: The site's land cover type was identified using Exhibit G and Exhibit H, which classifies the existing pervious land cover as "Urban Cover, Residential or Commercial Landscape." Additionally, Exhibit I recommends an impervious cover of 90% for the site.

Rainfall Depth: Rainfall depth are obtained from Exhibit K and Exhibit L for 100-year and 10-year 1-hour precipitation. These are then used for the estimation of 25-year rainfall depth, 1-hour using Exhibit M.

Table 2 – Basin Rainfall Depth

Storm Event	Rainfall Depth (in)
100-Year 1 hour	1.40
10-Year 1 hour	0.90

Table 3 – On-site Rainfall depth and Rainfall Intensity

Drainage Area	Impervious Cover	Slope of Intensity (Desert Area)	Rainfall Intensity (I), in/hr
Basin-A	0.90	0.70	3.92
Basin-B	0.90	0.70	3.79

Infiltration Rate: From the manual's Figures B-9 and B-10 (see Exhibit J) rainfall depth was estimated.

Peak Flow, cfs: The value for the peak flow was determined once Rainfall Data and Runoff Coefficient values were calculated using the parameters.

For Basin-A:

100-Yr 1-hour Precipitation depth = 1.40 inch **(**Exhibit K)

10-Yr 1-hour Precipitation depth = 0.90 inch (Exhibit L)

So, 25-Yr 1-hour Precipitation depth = 1.08 inch (Exhibit M)

So, 25-Yr Rainfall intensity for 9.50 min storm, I = 1.3.92 in/hr (Exhibit N)

As we discussed, 100-Yr 'existing' conditions is based on 25-Yr storm using AMC II

So, Basin-A 100-Year peak flow, $Q = C \times I \times A = 0.90(a_i + ((I-F_p)a_p)/I) \times I \times A$

$Q_A = 0.90x(0.90+((3.92-0.745 \times 0.10)/3.92)x\ 3.92 \times 6.94 = 24.05$ cfs

$Q_B = 33.40$ cfs

The summary of the calculations of the peak flow of on-site drainage is presented below.

Table 4 – Peak Flow Rate

Drainage Area	Area (ac)	Runoff Index Values	F_P	a_i (%Impervious)	a_p (% Perv)	Rainfall Intensity, I (in/hr)	Peak Flow, Qs (cfs)
Basin-A	6.94	56	0.745	0.90	0.10	3.92	24.05
Basin-B	6.149	86	0.268	0.90	0.10	3.79	33.40

Off-site Hydrology

Refer to Existing condition drainage patterns in Exhibit A**.**

For the off-site hydrology analysis, the watershed was divided into two primary sections: Basin-A and Basin-B. These basins extend beyond the project site, and both the on-site and off-site portions were analyzed to determine the impact of stormwater inflow on the site. The off-site inflows, designated as Off-A and Off-B, were evaluated using the principle of conservation of energy (Q-Qin), where off-site inflow (Qin) is subtracted from the total basin discharge (Q) to isolate the on-site discharge (Qout).

Off-A (Off-site of Basin-A)

Off-A, the off-site portion of Basin-A, encompasses a watershed area of 4.48 acres. The flow path extends 593 feet with an elevation difference of 14.60 feet, resulting in a calculated time of concentration (Tc) of 8.0 minutes. For the 100-year storm event, the peak flow rate is determined to be 17.54 cubic feet per second (cfs), indicating a relatively rapid response to precipitation due to the short flow path and moderate elevation change. This highlights the significance of managing runoff efficiently to mitigate potential flooding or erosion impacts downstream.

Off-B (Off-Site Basin-B)

Off-B, the off-site portion of Basin-B, covers a watershed area of 7.89 acres. It features a flow path of 695 feet with an elevation difference of 19.90 feet, resulting in a calculated time of concentration (Tc) of 8.30 minutes. For the 100-year storm event, the peak flow rate was estimated to be 30.09 cubic feet per second (cfs). The relatively short Tc and significant peak flow underscore the importance of implementing effective stormwater management strategies to address potential runoff impacts and mitigate downstream risks.

By subtracting the off-site inflows from Off-A and Off-B from the total discharge of Basin-A and Basin-B, the on-site discharge was calculated. This method allowed for a focused analysis of how the off-site portions of these watersheds affect the project site, ensuring that inflows from external areas were properly accounted for in the overall drainage design.

This off-site hydrology analysis is crucial for developing appropriate stormwater management strategies, as the inflows from surrounding areas directly influence the volume of runoff that must be managed within the project boundary.

The calculations can be seen in detail in the following sub-section.

Parameters and Calculations

Time of Concentration in minutes see Exhibit F. Table below shows the parameters needed to estimate time of concentration.

Table 5 – Existing Condition: Off-A and Off-B Time of Concentration

Drainage Area	Area (AC)	Flow Path (ft)	Elevation Diff (ft)	Soil Runoff Index Value	Infiltration Rate, F_p	Time of Conct. (min)
Off-A	4.48	593	14.60	56	0.745	8.00
Off-B	7.89	695	19.90	56	0.745	8.30

Soil Group: San Bernardino County Hydrology Manual was used to determine soil types. Based on San Bernardino County Hydrology Manual (Exhibit E), the project site is classified as '**soil type B**'.

Cover Type: The site's land cover type was identified using Exhibit G and Exhibit H, which classifies the existing pervious land cover as "Urban Cover, Residential or Commercial Landscape." Additionally, Exhibit I recommends an impervious cover of 90% for the site.

Rainfall Depth: Rainfall depth are obtained from Exhibit K and Exhibit L for 100-year and 10-year 1-hour precipitation. These are then used for the estimation of 25-year rainfall depth, 1-hour using Exhibit M.

Table 6 – Existing Condition: Off-A and Off-B Rainfall Depth

Storm Event	Rainfall Depth (in)
100-Year 1 hour	1.40
10-Year 1 hour	0.90

Table 7 – Existing Condition: Off-A and Off-B Rainfall depth and Rainfall Intensity

Drainage Area	Impervious Cover	Slope of Intensity (Desert Area)	Rainfall Intensity (I), in/hr
Off-A	1.0	0.70	2.71
Off-B	1.0	0.70	2.53

Infiltration Rate: From the manual's Figures B-9 and B-10 (see Exhibit J) rainfall depth was estimated.

Peak Flow, cfs: The value for the peak flow was determined once Rainfall Data and Runoff Coefficient values were calculated using the parameters.

100-Yr 1-hour Precipitation depth = 1.40 inch (Exhibit K)

10-Yr 1-hour Precipitation depth = 0.90 inch (Exhibit L)

So, 25-Yr 1-hour Precipitation depth = 1.08 inch (Exhibit M)

For Off-A:

So, 25-Yr Rainfall intensity for 8.0 min storm, I = 4.43 in/hr (Exhibit N)

As we discussed, 100-Yr 'existing' conditions is based on 25-Yr storm using AMC II

So, Off-A 100-Year peak flow, $Q = C \times I \times A = 0.90(a_i + ((I-F_p)a_p)/I) \times I \times A$

$Q_A = 0.90x(0.90 +((4.43-0.745) \times 0.10)/ 4.43) \times 4.43 \times 4.48 = 17.54$ cfs

$Q_B = 30.09$ cfs

The summary of the off-site discharge calculations is provided below.

Table 8 – Existing Condition: Off-A and Off-B Peak Flow Rate

Drainage Area	Area (AC)	Runoff Index Values	F_P	a_i (% Impervious)	a_p (% Perv)	Rainfall Intensity, I (in/hr)	Peak Flow, Qs (cfs)
Off-A	4.48	56	0.745	0.90	0.90	4.43	17.54
Off-B	2.73	56	0.745	0.90	0.90	4.31	30.09

***On-site Hydrology* (See *Exhibit A*)**

For **Basin-A**, the total discharge was calculated to be 24.05 cubic feet per second (cfs). The inflow from the off-site portion of this basin, Off-A, was determined to be 17.54 cfs. After applying the conservation principle (Q - Qin), the on-site discharge for Basin-A is calculated at 6.51 cfs.

For **Basin-B**, the total discharge was calculated at 33.40 cfs, with an inflow from Off-B of 30.09 cfs. Using the same principle, the resulting on-site discharge for Basin-B is 3.30 cfs.

This analysis highlights that only **Basin-A** and **Basin-B** have both inflow and outflow components, meaning they significantly influence the on-site hydrology.

A summary of the peak flow rates is provided in Exhibit B, illustrating that the on-site discharges for Basin-A and Basin-B are the primary concerns for drainage management, while Basin-C and Basin-D are considered minor contributors to the overall hydrologic impact of the site. This thorough evaluation is critical for designing stormwater management strategies that effectively handle both internal and external runoff contributions.

Table 9 – Summary of Peak Flow of all Basin

Drainage Area	Discharge, cfs	Off-site Flow, cfs	On-site Flow, cfs
Basin-A	24.05	17.54	6.51
Basin-B	33.40	30.09	3.30

4. Hydraulic Analysis

4.1. Purpose

The purpose of this section is to evaluate and present the hydraulic measures necessary for effective stormwater management on-site, ensuring compliance with local and regulatory standards. This includes the assessment of required volume mitigation to control runoff and prevent flooding, with a focus on determining the design capture volume (DCV) and implementing appropriate on-site retention systems, such as infiltration basins.

Additionally, the section will incorporate the analysis of HEC-RAS results for the on-site runoff. The goal is to assess potential impacts from regional stormwater flows and evaluate how the site interacts with broader hydrological systems, particularly under critical storm events. This analysis will inform both the on-site mitigation strategies and any necessary adjustments to manage off-site drainage contributions effectively.

4.2. On-site Volume Mitigation Required

The method outlined in the San Bernardino County Hydrology Manual for estimating runoff volume from a design storm event employs an empirical factor known as the runoff curve number (CN). This factor is crucial for determining the portion of rainfall depth that converts to runoff.

For this analysis, the 2-year, 24-hour rainfall depth from NOAA is 1.53 inches. The curve number (CN) for existing conditions is 56, as specified in the San Bernardino County Hydrology Manual. Additionally, the soil storage capacity is noted to be 7.86 inches, with an initial abstraction determined to be 1.57 inches.

Using these values, the calculated runoff volume for the existing on-site conditions is approximately 4.34 acre-feet, which converts to 189,050 square feet.

See sub-section below for the detailed calculations.

Calculations

So, P2-Yr 24-hour Precipitation depth = 1.53 inch (Exhibit Q)

S = (1000/CN) - 10 = (1000/56) - 10
S = 7.86

Ia = 0.2S = 0.20*7.86
Ia = 1.57

Runoff Volume pre-developed, Vpre-dev = (A/12)*{[(P2-yr 24-hr -Ia)^2]/(P2-yr 24-hr – Ia + S}

= (4.34/12)*{[(1.53 – 1.57)^2]/ (1.53 – 1.57+ 7.86)

= 0.001 ac-ft = 3.46 cf

4.3. Design Capture Volume

In accordance with Section E.12.e of the Phase 2 MS4 Permit issued by the California State Water Resources Control Board, four alternatives are provided for calculating the Design Capture Volume (DCV) when sizing Low Impact Development (LID) features and other Best Management Practices (BMPs). For the Mojave River Watershed, the Technical Guidance for Water Quality Management Plans (WQMP) specifies that the 24-hour, 85th percentile storm event is used to calculate the DCV.

For a given site with an area of 189,050 square feet, 90% impervious surface for the recommended value for Industrial Land use by the SBC Hydrology Manual, and constants specific to the site's climatic region (1.2371) and 48-hour drawdown rate (1.963), the Design Capture Volume (as per the Mojave River Watershed guidance) is calculated to be 13,243.12 cubic feet (cf).

See calculations in detail below.

Calculations

DMA-A Area, A = 189,050 ft^2

Project Imperviousness, Imp% = 90% = 0.90

Runoff Coefficient, (R_c) = 0.858(Imp%)^3-0.78(Imp%)^2+0.774(Imp%)+0.04 = 0.73

1-hour rainfall depth for a 2-year return period (in), P_{1hr} = 0.474 in

Mean 6-hr Precipitation (inches), $P_6 = P_{1hr}$ *C1 (where C1 is a function of site climatic region = 1.2371)

P_6 = 0.586 in

Design capture volume, DCV (ft^3) = 1/12 * [A * R_c * P_6 * C2],

where C2 is a function of drawdown rate (48-hr = 1.963)

So, DCV = 1/12 * [189,050 * 0.73 * 0.586 * 1.963] = 13,243.12 ft^3

So, DCV > Runoff Volume Pre-dev

4.4. HEC-RAS Result (See Exhibit B and Exhibit C)

Basin-A Hydraulic Results

The hydraulic simulation for Basin A, encompassing a drainage area of 6.94 acres, was performed using a manual approach based on the San Bernardino County (SBC) Hydrology Manual to evaluate flow dynamics and channel behavior. Six cross-sections were strategically placed along the flow path at station points STA 383, STA 332, STA 259, STA 176, STA 94, and STA 54 to ensure detailed representation of the basin's topography. The peak discharge for the 100-year storm event was calculated to be 24.05 cubic feet per second (cfs).

Channel velocities varied across the cross-sections, ranging from 0.76 feet per second at STA 94, the slowest point, to 1.81 feet per second at STA 332, where the velocity was highest. Water surface elevations (W.S. Elevations) exhibited variability as well, with the highest elevation recorded at STA 383, reaching 3724.52 feet. The critical water surface elevation (Crit. W.S.) peaked at STA 259 with a value of 3720.76 feet, while the lowest critical elevation was observed at STA 54 at 3715.92 feet.

The variability in channel velocities and water surface elevations reflects the influence of the basin's topography on flow dynamics. Slower velocities at flatter or wider sections and faster velocities in steeper or narrower areas underscore the importance of site-specific hydraulic considerations. The elevated water surface at STA 383 identifies this section as a critical area for potential flooding during peak flow conditions. Similarly, the high critical water surface elevation at STA 259 highlights its sensitivity to flow changes, making it another point of concern.

These results suggest the need for targeted flood mitigation measures, such as structural reinforcements or flow diversion strategies, to manage peak flow events effectively and reduce the risk of flooding in Basin A's critical areas.

Basin-B Hydraulic Results

The hydraulic simulation for Basin B, encompassing a drainage area of 10 acres, was conducted using a manual approach based on the San Bernardino County (SBC) Hydrology Manual to evaluate flow dynamics and channel behavior. Six cross-sections were strategically identified along the flow path at station points STA 291, STA 246, STA 196, STA 120, STA 71, and STA 28 to ensure accurate representation of the basin’s topographic and hydraulic characteristics. The analysis yielded a peak discharge of 33.40 cubic feet per second (cfs) for the 100-year storm event.

Channel velocities ranged from 1.45 feet per second at STA 120, the slowest section, to 2.15 feet per second at STA 28, the fastest section, reflecting variations in flow dynamics influenced by changes in the channel's geometry and slope. The highest water surface elevation (W.S. Elevation) was recorded at STA 291, reaching 3718.23 feet, while the critical water surface elevation (Crit. W.S.) was noted at STA 9, with a value of 3710.65 feet.

The results highlight the variability in flow conditions, with slower velocities observed in flatter or wider sections of the channel and faster velocities in steeper or narrower areas. The elevated water surface at STA 291 suggests a potential area of concern for high water levels during peak flow conditions, while the critical water surface elevation at STA 9 underscores the sensitivity of this location to changes in flow depth and velocity.

These findings indicate the necessity for site-specific flood mitigation measures to address peak flow conditions effectively. Targeted interventions, such as structural reinforcements or slope modifications, may be required to mitigate flooding risks and manage flow dynamics along Basin B's critical points.

5. Summary and Conclusion

5.1. Hydrology

Basin Hydrology

Each basin was evaluated for the 100-year storm event, with the times of concentration (Tc) and peak flow rates calculated to assess their impact on the site's drainage and flood risk.

Basin-A:
Covering 6.94 acres, Basin-A has a flow path of 979 feet and an elevation change of 29.70 feet. The recalculated Tc is 9.50 minutes, producing a peak flow rate of 24.05 cfs. It has a moderate elevation change, indicating swift runoff.

Basin-B:
The largest basin, covering 10 acres, with a flow path of 1,000 feet and an elevation difference of 22.80 feet. Its Tc is 10.0 minutes, with a peak flow rate of 33.40 cfs. Larger runoff contribution, emphasizing the need for flood management.

Off-site Hydrology

The off-site hydrology was divided into two main sections: Off-A (off-site of Basin-A) and Off-B (off-site of Basin-B), and their inflows were analyzed to understand the impact of external runoff on the site.

Off-A:
Covers 4.48 acres with a flow path of 593 feet and an elevation change of 14.60 feet. Its Tc is 8.0 minutes, and its peak flow rate is 17.54 cfs, which flows into Basin-A of project-site.

Off-B:
Covers 7.89 acres with a flow path of 695 feet and an elevation change of 19.90 feet. Its Tc is 8.30 minutes, with a peak flow rate of 30.09 cfs, contributing significantly to Basin-B.

On-site Hydrology

For on-site hydrology, the contributions from both internal and external runoff were analyzed by subtracting off-site inflows from the total discharge of each basin.

Basin-A:
The total discharge was calculated as 33.40 cfs, with 17.54 cfs coming from Off-A, resulting in an on-site discharge of 6.51 cfs.

Basin-B:
The total discharge was 33.40 cfs, with 30.09 cfs from Off-B, leaving an on-site discharge of 3.30 cfs.

5.2. Hydraulics

On-site Volume Mitigation

Based on the San Bernardino County Hydrology Manual, the design runoff for the on-site portion is calculated using the Curve Number (CN) method. For this site, the 2-year, 24-hour rainfall depth is 1.53 inches, and the 2-year, 1-hour rainfall depth is 0.474 inches, and the CN is 56. The soil storage capacity is 7.86 inches, with an initial abstraction of 1.57 inches. These values result in a calculated runoff volume of approximately 0.0001 **acre-feet (3.46 cubic feet)** under existing conditions.

Design Capture Volume (DCV)

According to the Phase 2 MS4 Permit and the Mojave River Watershed Technical Guidance for Water Quality Management Plans, the Design Capture Volume (DCV) was calculated for a site area of 189,050 square feet, assuming 90% impervious surface. Using a 24-hour, 85th percentile storm event, the DCV is **13,243.12 cubic feet** for Industrial land use.

HEC-RAS Results

Basin-A

The hydraulic simulation for Basin A, with a drainage area of 6.94 acres, indicated a peak discharge of 24.05 cfs for the 100-year storm event. Channel velocities ranged from 0.76 ft/s at STA 94 to 1.81 ft/s at STA 332. Water surface elevations varied from 3716.01 feet at STA 54 to 3724.52 feet at STA 383, with the highest critical water surface elevation at STA 259 at 3720.76 feet. These results highlight critical areas like STA 383 and STA 259 that may be vulnerable to flooding during peak flow events, suggesting the need for flood mitigation measures.

Basin-B

For Basin B, covering 10 acres, the peak discharge was 33.40 cfs during the 100-year storm event. Channel velocities ranged from 1.45 ft/s at STA 120 to 2.15 ft/s at STA 28. Water surface elevations ranged from 3710.65 feet at STA 9 to 3718.23 feet at STA 291. The critical water surface elevation at STA 9 was 3710.65 feet. Similar to Basin A, critical areas like STA 291 and STA 9 require attention for potential flooding, indicating the need for targeted flood mitigation measures.

The hydrologic and hydraulic analysis of the site reveals crucial insights for effective flood risk management and runoff control. Both **Basin-A** and **Basin-B** are significant contributors to runoff, with Basin-B being the largest in terms of flow rate. The analysis indicates that both on-site and off-site contributions must be considered in flood mitigation strategies, especially as off-site inflows, such as those from Off-A and Off-B, also significantly affect the peak flows in the basins. The **on-site volume mitigation** required, calculated to be 4.34 acre-feet, must be addressed with the recommended **Design Capture Volume (DCV)** of 13,243.12 cubic feet to ensure efficient runoff management and avoid potential flooding.

Hydraulic simulations suggest that both basins have sections with critical water surface elevations that could lead to flooding during peak storm events. Specifically, **Basin-A** shows elevated water levels at STA 383 and STA 259, while **Basin-B** shows similar risks at STA 291. These results highlight the need for targeted flood mitigation measures such as structural reinforcements, slope modifications, or flow diversion to manage peak flow events and protect the site from potential flooding. The findings emphasize the importance of an integrated approach to hydrology and hydraulics in designing a sustainable drainage system for the site.

6. Recommendation

Based on the hydrology and hydraulic conclusions, the results highlight specific areas of concern and necessary mitigation strategies to address both on-site and off-site stormwater challenges.

To effectively manage stormwater runoff and reduce the flood risk in the area, it is recommended to install on-site stormwater mitigation measures, such as detention or retention basins, to capture and store runoff water, ensuring it meets the required Design Capture Volume (DCV). Upgrading the drainage systems, particularly in critical areas, will be essential to accommodate higher peak flow rates and prevent potential flooding. In addition, implementing green infrastructure solutions like permeable pavements, swales, and green roofs can help reduce runoff and promote water infiltration. Regular hydrological monitoring should also be set up to track water levels, flow rates, and stormwater behavior, offering early flood warnings and improving future resilience.

The implications of these measures are significant. Without effective stormwater management, the site could experience considerable flooding, especially in areas with high peak flow rates. Addressing these concerns through both on-site and off-site solutions is vital to prevent future flood damage. Additionally, implementing green infrastructure will not only help reduce runoff but also contribute to long-term environmental sustainability. Finally, these measures are crucial for compliance with local regulations and ensuring public safety, preventing potential legal or financial issues down the line.

7. References

County of San Bernardino, Hydrology Manual

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US Army Corps of Engineers – Hydrologic Engineering Center, HECRAS User's Manual

US Department of Transportation - Federal Highway Administration, HY-8 Culvert Analysis Program

PRELIMINARY GRADING PLAN

SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67

LEGAL DESCRIPTION:

TR 8749, MB 120/50-64 SEC. 13, T1N, R5E., S.B.B.&M.
APN: 0597-111-67

BASIS OF BEARING :

THE SOUTHWEST 1/4 OF SECTION 13 PER TRACT 8749, MB 120/50-64 SAID BEARING BEING N00°00'08"E

BENCHMARK :

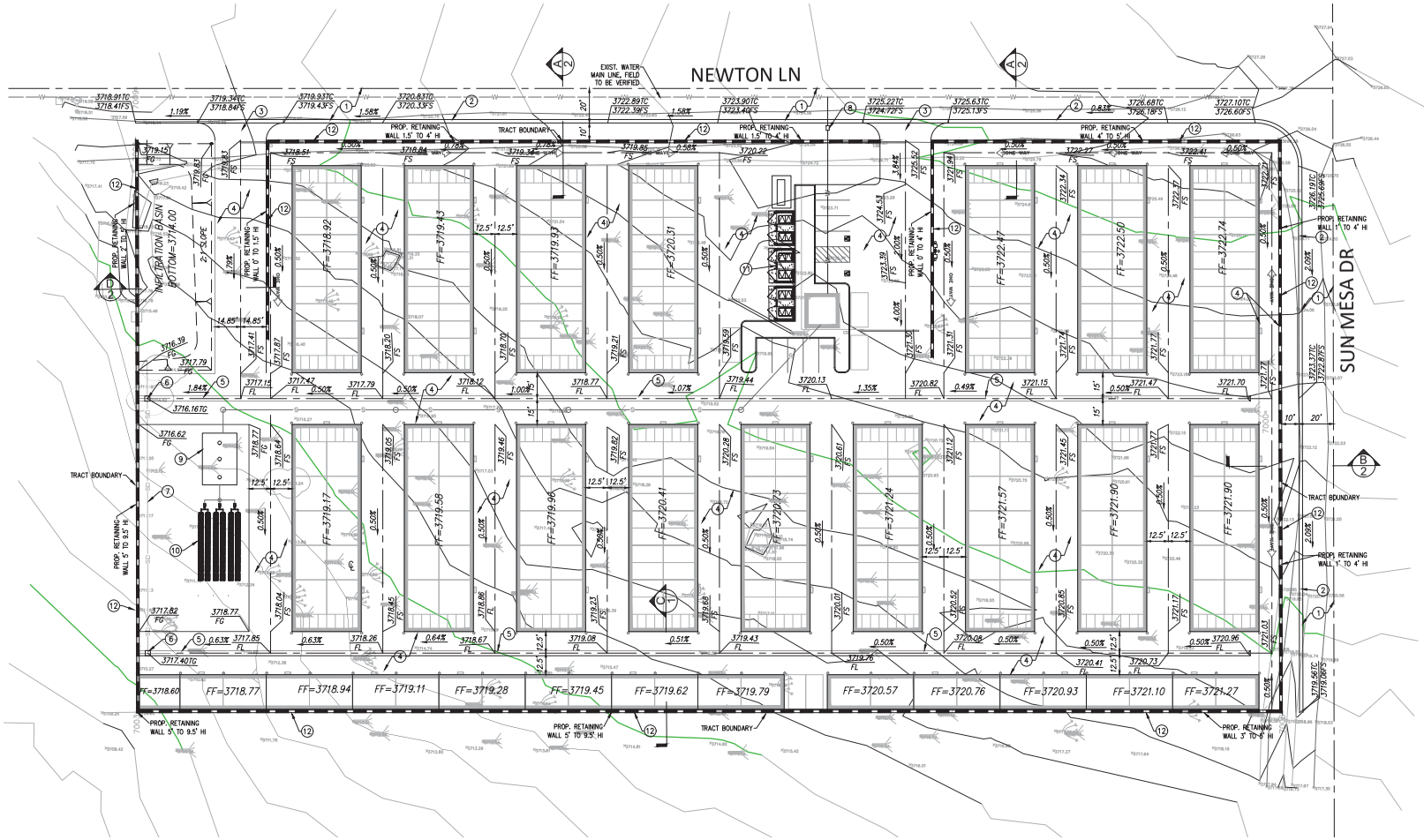
USGS BM 705 24
ELEVATION = 3718.55 FEET, NAVD 88

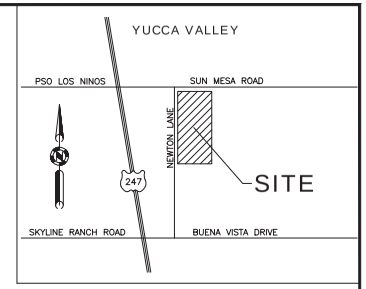
OWNER/DEVELOPER

ROB BILLINGS
5024 WALLABY STREET
YUCCA VALLEY CA 92284
760-686-4171
BILLINGSTRANSFER@YAHOO.COM

TOPOGRAPHY:

PREPARED BY:
LSAP CONSULTANTS LLC.
ADDRESS: 14997 MCGARGER RD
DESERT HOT SPRINGS , CA 92240
(760) 288-2232
SURVEY@LSAPCONSULTANTS.COM
DATE OF SURVEY JAN 2022





VICINITY MAP
NTS

LEGEND:

	CENTERLINE	EP	EDGE OF PAVEMENT
	PROPERTY LINE	FF	FINISHED FLOOR
W	WATER LINE	FG	FINISHED GROUND
S	SEWER LINE	FL	FLOW LINE
ELEC	ELECTRIC LINE	FS	FINISHED SURFACE
		GB	GRADE BREAK
GAS GAS	GAS LINE	HP	HIGH POINT
X	EXIST. CHAIN LINK FENCE	INV	INVERT ELEVATION
	EXIST. WOOD FENCE	PAD	PAD ELEVATION
	EXIST. BLOCK WALL	RET.	RETAINING WALL
94.4	EXIST. CONTOUR LINE	TC	TOP OF CURB
945.0 FS	EXIST. SPOT ELEVATION	TG	TOP OF GRATE
	EXIST. FIRE HYDRANT		
	EXIST. POWER POLE		
	EXIST. SEWER MANHOLE		
	EXIST. STORM DRAIN MANHOLE		
W	EXIST. WATER METER		
	EXIST. WATER VALVE		
	EXIST. TREE		

CONSTRUCTION NOTE:

1. PROPOSED AC PAVEMENT
2. PROPOSED 6" CURB AND GUTTER
3. PROPOSED DRIVEWAY APPROACH
4. PROPOSED CONC. PAVEMENT
5. PROPOSED CONC. RIBBON GUTTER
6. PROPOSED 36"X36" CATCH BASIN WITH TRAFFIC RATED STEEL GRATE
7. PROPOSED 18" RCP
8. PROPOSED 1" SERVICE METER
9. PROPOSED SEPTIC TANK
10. PROPOSED LEACH FIELD
11. TRASH ENCLOSURE
12. PROPOSED RETAINING WALL

EARTHWORK VOLUMES:

TOTAL CUT = 4970 CY
TOTAL FILL = 4485 CY

** SEE EARTHWORK EXHIBIT FOR INFORMATION ON CUT-FILL BY LOCATION MAP.*

NORTH

0 15' 30' 60'
SCALE: 1"=30'

SHEET 1 OF 2

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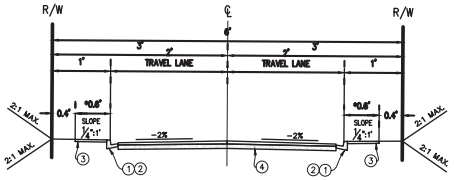
Joanne C. Singer RCE 26900
760-625-7426

PRELIMINARY GRADING PLAN

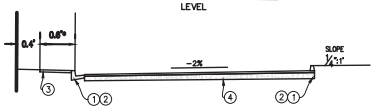
SUN MESA ROAD, YUCCA VALLEY, CA

APN: 0597-111-67



TYPICAL SECTION

LEVEL



TYPICAL SECTION

TILT

NOTES:

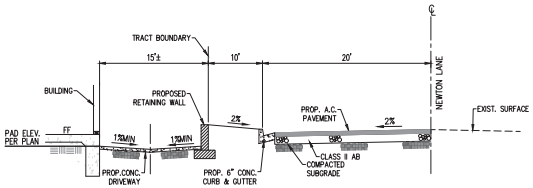
1. CURB AND GUTTER STD. DWG. NO. 200
2. A.C. DIKE PER STD DWG. 202 **
3. SIDEWALK PER STD. DWG. NO. 220
4. PAVEMENT SECTION PER STD. DWG. NO. 240

*SIDEWALK REQUIREMENT PER DEVELOPMENT CODE

**LIMITED USE, SHORT TERM IMPROVEMENT PROJECTS

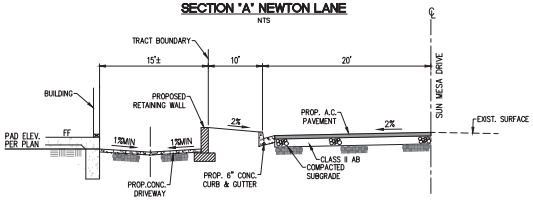
LOCAL STREET SECTION SUN MESA-NEWTON LN

NOT TO SCALE



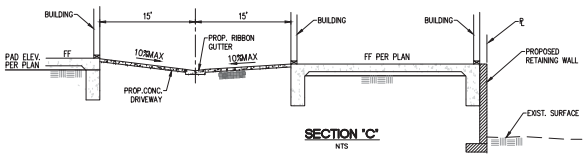
SECTION "A" NEWTON LANE

NTS



SECTION "B" SUN MESA DRIVE

NTS



SECTION "C"

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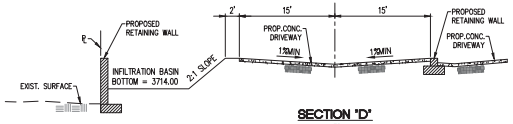

SECTION "D"

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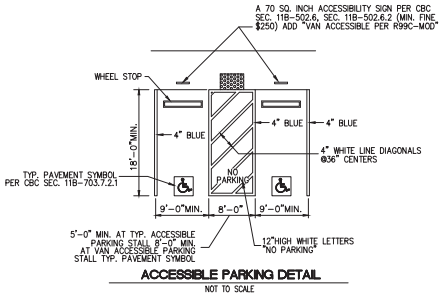
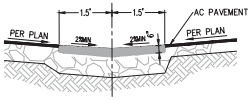


ACCESSIBLE PARKING DETAIL

NOT TO SCALE



RIBBON GUTTER DETAIL

N.T.S.

SHEET 2 OF 2

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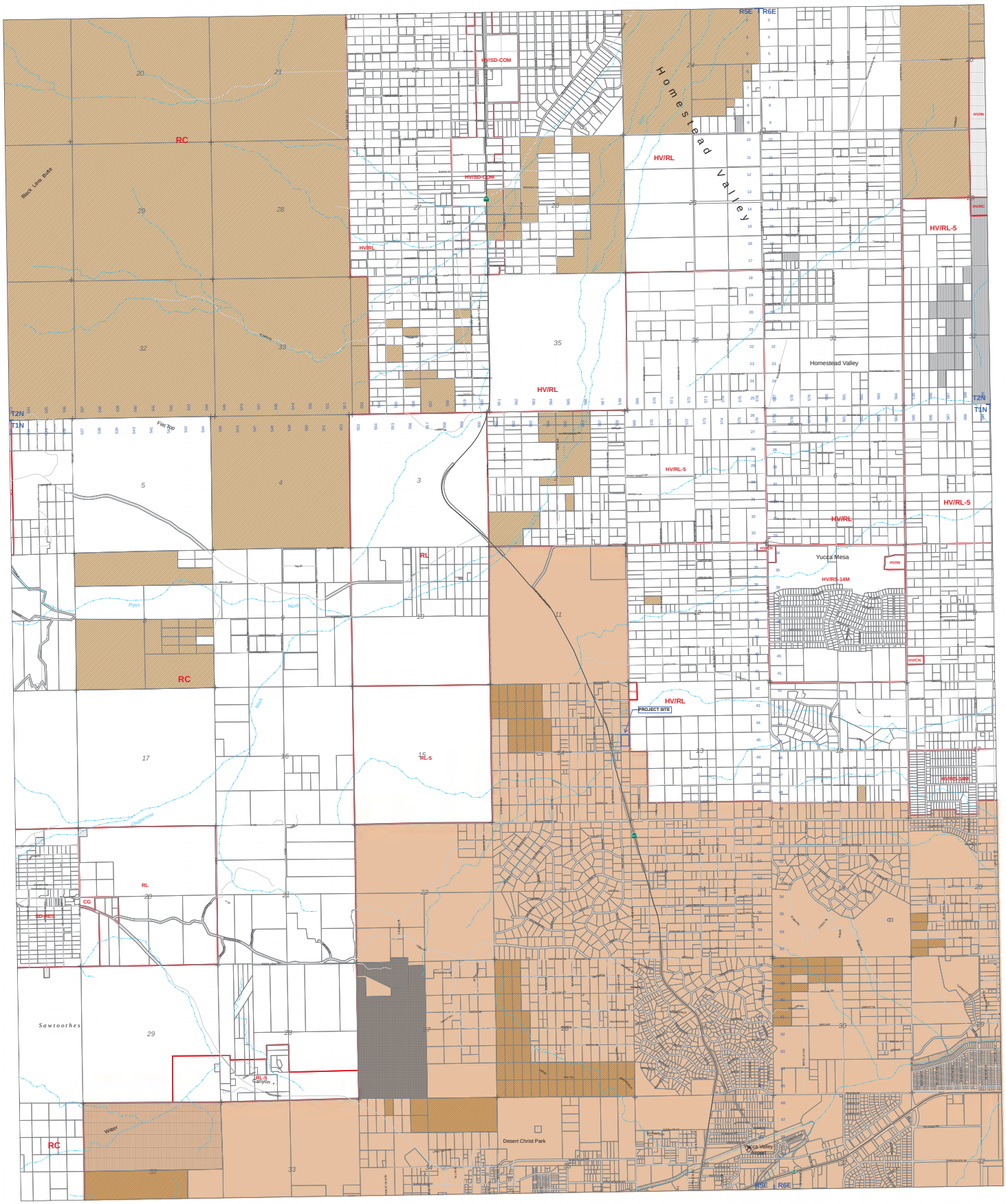
See FI13 A



See FI20 A

See FI22 A

See FI29 A

Land Use Zoning Districts

AG – Agriculture
CG – General Commercial
CH – Highway Commercial
CN – Neighborhood Commercial
CO – Office Commercial
CR – Rural Commercial
CS – Service Commercial
FW – Floodway
IC – Community Industrial
IN – Institutional
IR – Regional Industrial
OS – Open Space
RC – Resource Conservation
RL – Rural Living
RM – Multiple Residential
RS – Single Residential
SD – Special Development
SP – Specific Plan

County designated Land Use Zoning Districts do not apply to Federal or State owned property.

San Bernardino County Land Use Plan
GENERAL PLAN
Land Use Zoning Districts

SCALE 1:14,400

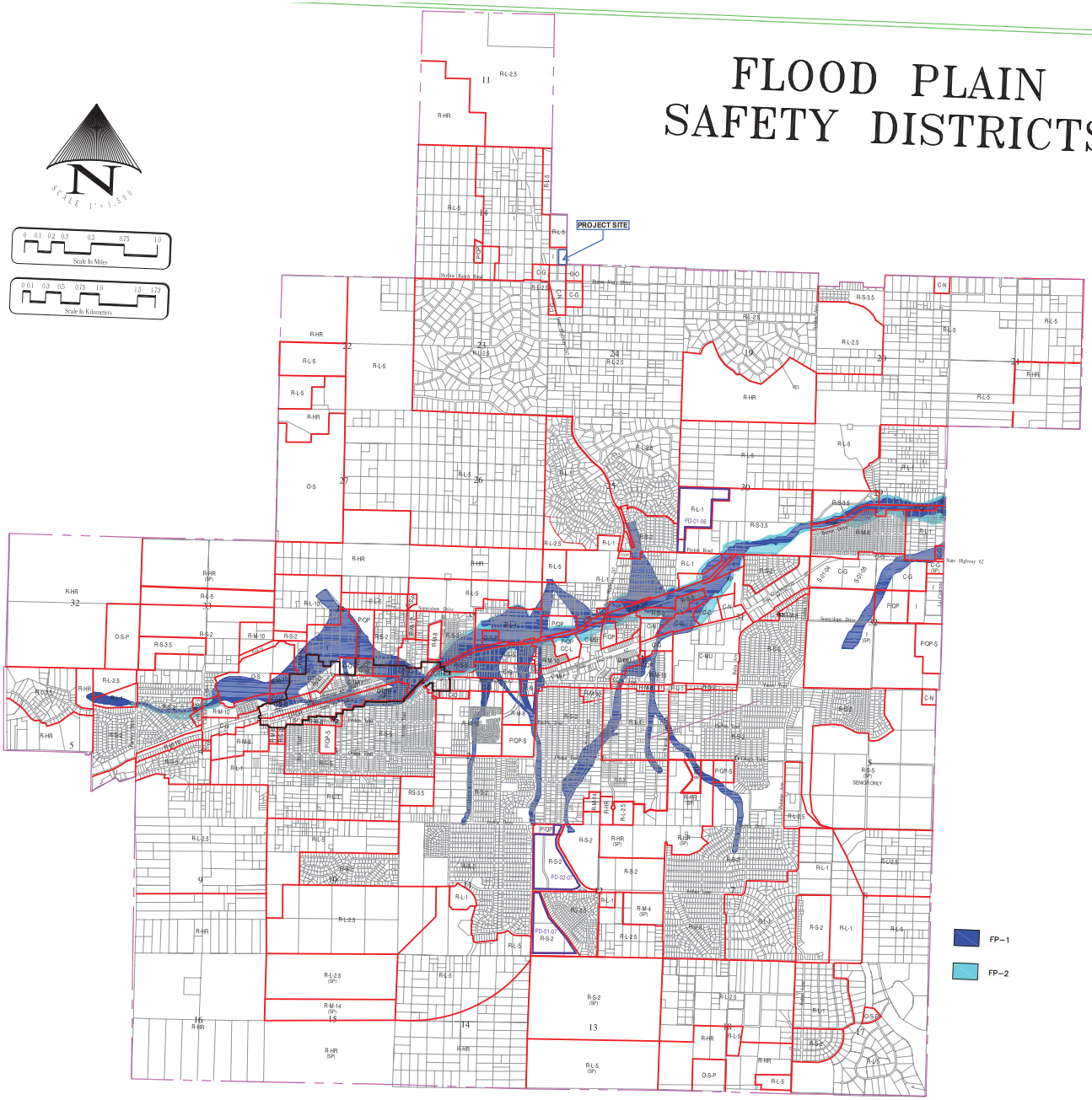
Legend

BLM
National Park
National Forest
Military
State
Indian Land
Other Federal Government
County
Private Unincorporated
RDA

Jurisdictional Control data is for informational purposes only and is not part of the General Plan Land Use Zoning. The depiction of the various land ownership categories is the best available information but cannot be guaranteed. For current land ownership information please contact the San Bernardino County Assessor's Office.

FI21 A
Yucca Valley North

FLOOD PLAIN SAFETY DISTRICTS



2014

OFFICIAL ZONING DISTRICT MAP

LEGEND

R-HR	HILLSIDE RESERVE (1 du / 20 ac.)
R-L	RURAL LIVING (1 du / 1, 2.5, 5, 10, 20 ac.)
R-S	RESIDENTIAL, SINGLE FAMILY (0-2, 0-3.5, 0-5 du/ac.)
R-M	RESIDENTIAL, MULTI-FAMILY (1-10, 0-14 du/ac.)
C-MU	MIXED USE COMMERCIAL (Varies)
C-N	NEIGHBORHOOD COMMERCIAL
C-G	GENERAL COMMERCIAL
C-C	COMMUNITY COMMERCIAL
C-O	OFFICE COMMERCIAL
I	INDUSTRIAL
P/QP	PUBLIC/QUASI PUBLIC (SEE SYMBOLS)
O-S	OPEN SPACE (SEE SYMBOLS)
(SP)	SPECIFIC PLAN

OLD TOWN LAND USE

OTHC	OLD TOWN HIGHWAY COMMERCIA
OTIC	OLD TOWN INDUSTRIAL/COMMERICAL
OTMU	OLD TOWN MIXED USE
OTCR	OLD TOWN COMMERICAL/RESIDENTIAL

SYMBOLS

PUBLIC/QUASI PUBLIC

AP	AIRPORT
CC	CIVIC CENTER
FS	FIRE STATION
PS	POLICE STATION
H	HOSPITAL
S	SCHOOL
L	LIBRARY
FW	FLOODWAY

OPEN SPACE

O-S-P	PARK

LAND USE PLANS

SP	SPECIFIC PLAN
PD	PLAN DEVELOPMENT

Town of YUCCA VALLEY

TOWN COUNCIL MEETING
DECEMBER 16, 2014

EXISITING CONDITION HYDROLOGY MAP

APN: 059711167
SUN MESA ROAD
YUCCA VALLEY, CA 92284

VICINITY MAP
N.T.S.

LEGEND

- DRAINAGE BOUNDARY
- FLOW PATH LENGTH
- FLOW DIRECTION

PREPARE BY:

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DRP Enterprises

BASIN - A ANALYSIS

APN: 059711167
SUN MESA ROAD,
YUCCA VALLEY, CA 92284

VICINITY MAP
N.T.S.

APPLICANT / OWNER / DEVELOPER

ROBERT BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA 92284

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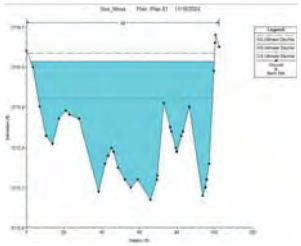

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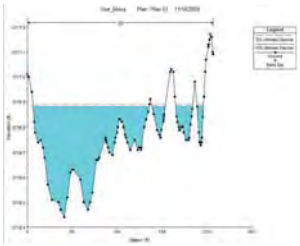

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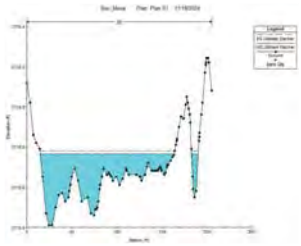

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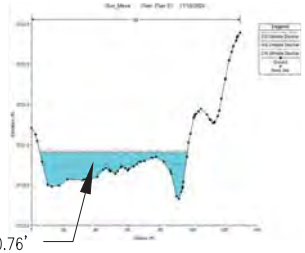
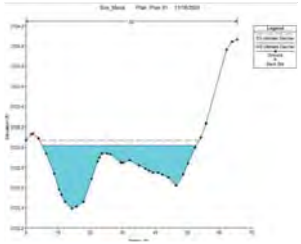


CRIT. WATER SURFACE=3720.76'
DURING 100-YR STORM EVENT

X-SECTION: 332



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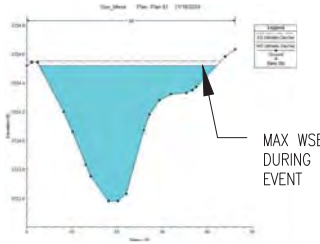

MAX WSE= 3724.52'
DURING 100-YR STORM EVENT

HEC-RAS SUMMARY RESULTS

HEC-RAS Plan: Plan 01 River: River 1 Reach: Reach 1 Profile: Ultimate Dischar

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach 1	383	Ultimate Dischar	24.05	3723.98	3724.52		3724.55	0.018849	1.44	16.75	86.28	0.38
Reach 1	332	Ultimate Dischar	24.05	3722.39	3723.02		3723.07	0.053599	1.81	13.26	47.70	0.61
Reach 1	259	Ultimate Dischar	24.05	3720.33	3720.90	3720.76	3720.92	0.019430	1.02	23.59	91.67	0.35
Reach 1	176	Ultimate Dischar	24.05	3718.41	3718.76		3718.78	0.028290	1.03	23.43	155.99	0.47
Reach 1	94	Ultimate Dischar	24.05	3716.44	3716.88		3716.89	0.015453	0.76	31.76	169.36	0.31
Reach 1	54	Ultimate Dischar	24.05	3715.67	3716.01	3715.92	3716.03	0.030327	1.15	20.83	97.83	0.44

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760-625-7426

DRP Enterprises

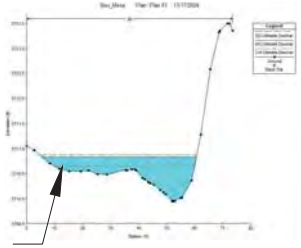
BASIN - B ANALYSIS

APN: 058920122
63926 Rocking Chair Rd.,
Joshua Tree, CA 92252

VICINITY MAP
N.T.S.

APPLICANT / OWNER / DEVELOPER
ROBERT BILLINGS
SUN MESA ROAD
YUCCA VALLEY, CA 92284

X–SECTION: 9



CRIT. WATER SURFACE=3710.65'
DURING 100–YR STORM EVENT

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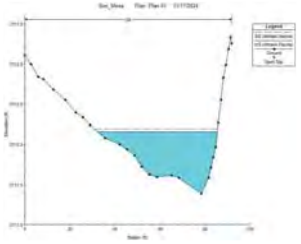

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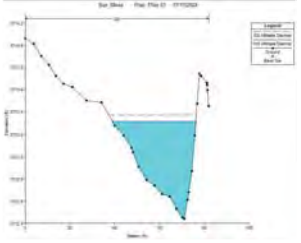

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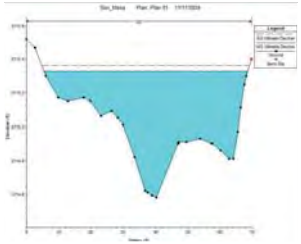

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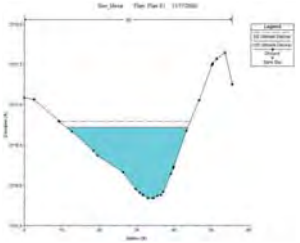

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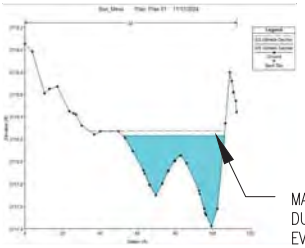

MAX WSE= 3718.23'
DURING 100–YR STORM
EVENT

HEC–RAS SUMMARY RESULTS

HEC-RAS Plan: Plan 01 River: River 2 Reach: Reach 2 Profile: Ultimate Discharge

Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl
Reach 2	291	Ultimate Discharge	33.40	3717.42	3718.23		3718.27	0.030731	1.87	19.96	34.12	0.49
Reach 2	246	Ultimate Discharge	33.40	3715.84	3716.72		3716.79	0.035430	2.15	15.55	32.34	0.55
Reach 2	196	Ultimate Discharge	33.40	3714.58	3715.32		3715.36	0.023217	1.45	23.09	63.10	0.42
Reach 2	120	Ultimate Discharge	33.40	3712.44	3713.11		3713.17	0.028787	1.91	17.51	37.08	0.48
Reach 2	71	Ultimate Discharge	33.40	3711.39	3712.16		3712.19	0.019906	1.48	22.56	53.05	0.40
Reach 2	9	Ultimate Discharge	33.40	3709.94	3710.83	3710.65	3710.87	0.022810	1.52	21.01	55.19	0.42

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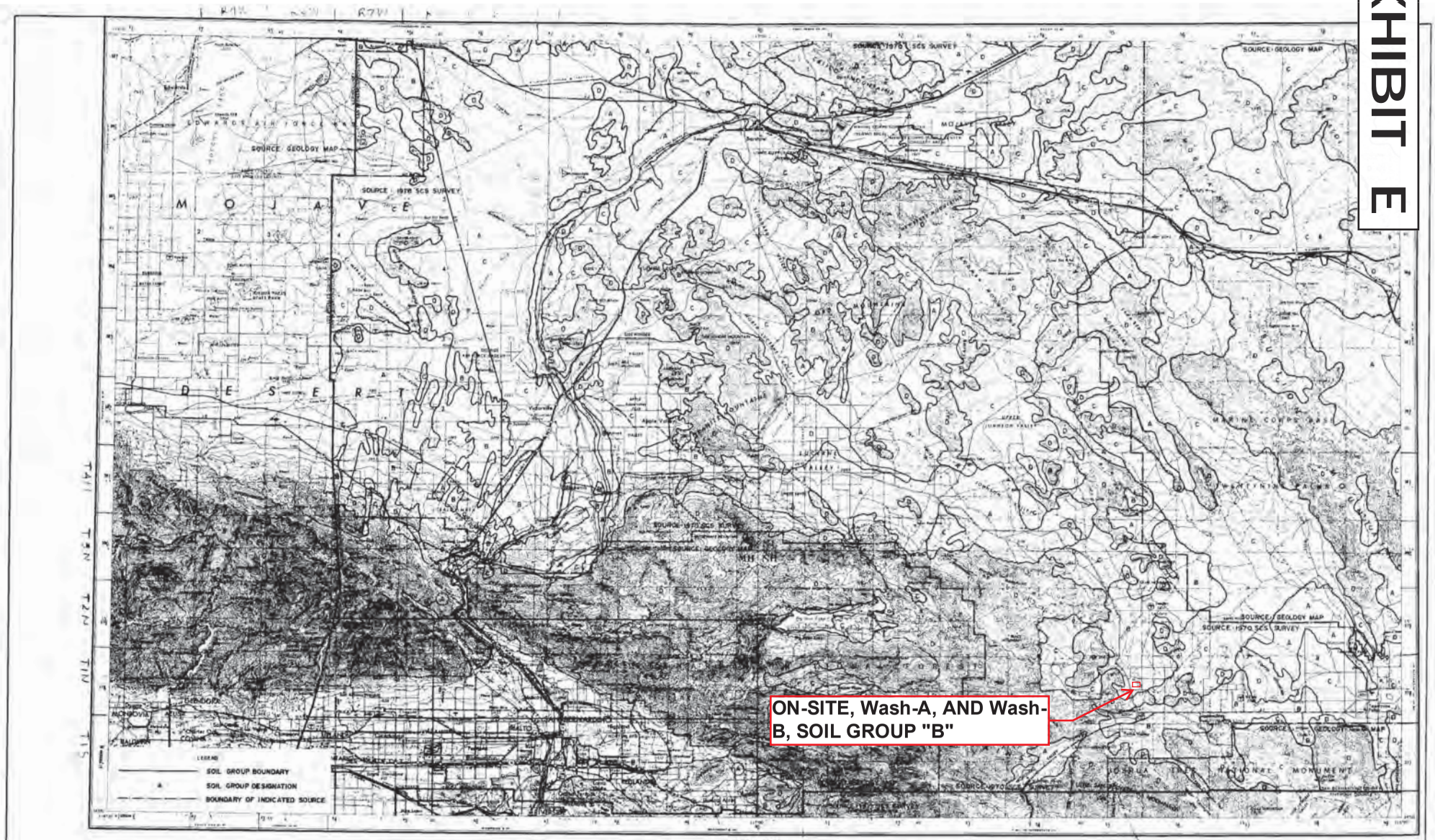
760–625–7426

EXHIBIT D

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

SAN BERNARDINO COUNTY
SOIL MAP INDEX

EXHIBIT E

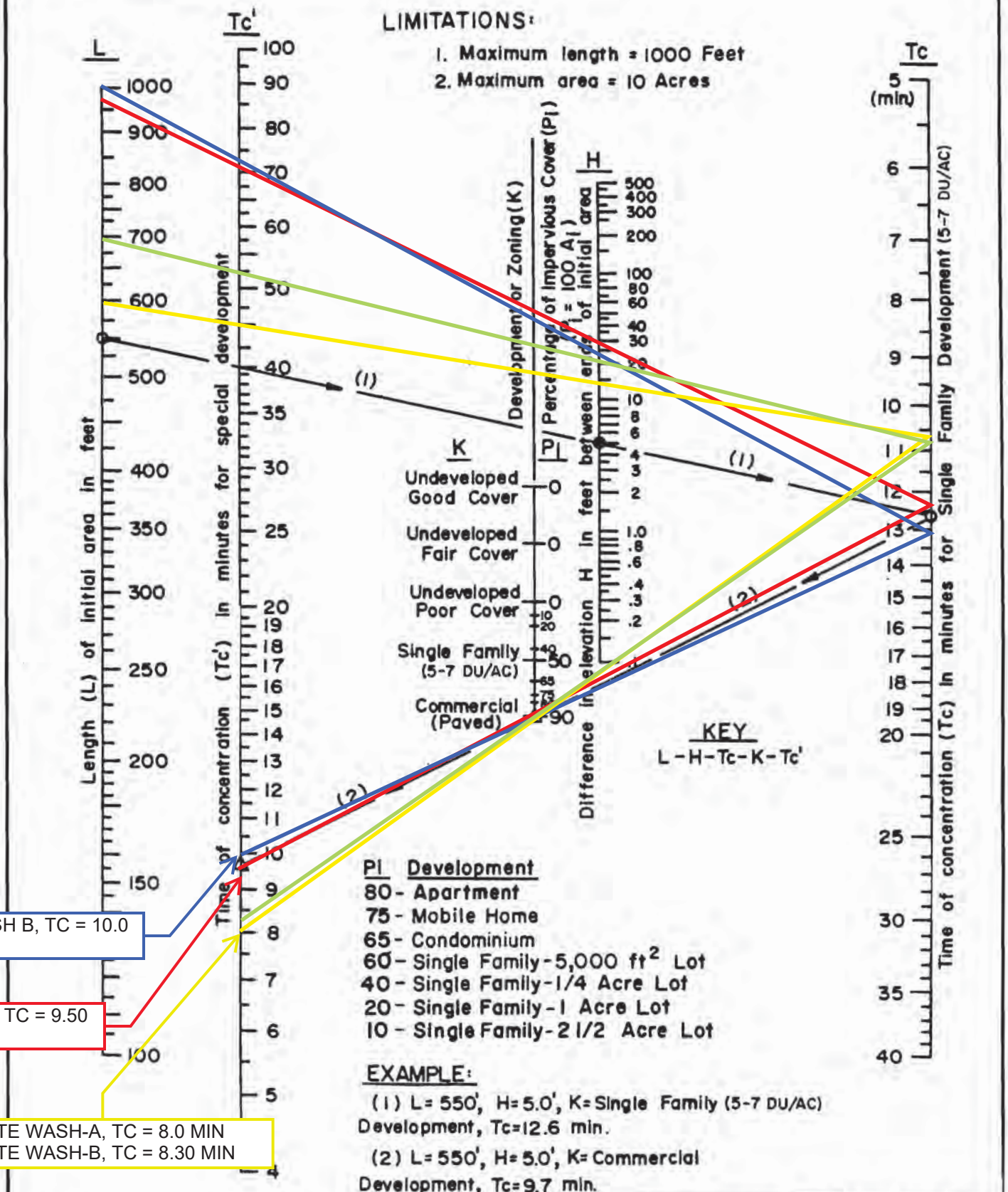


SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

HYDROLOGIC SOILS GROUP MAP
FOR
SOUTHCENTRAL AREA

FIGURE C-II

EXHIBIT F



SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

TIME OF CONCENTRATION NOMOGRAPH FOR INITIAL SUBAREA

Figure D-1

EXHIBIT G

Curve (1) Numbers of Hydrologic Soil-Cover Complexes For Pervious Areas-AMC II

Cover Type (3)	Quality of Cover (2)	Soil Group A	B	C	D
NATURAL COVERS -					
Barren (Rockland, eroded and graded land)		78	86	91	93
Chaparral, Broadleaf (Manzonita, ceanothus and scrub oak)	Poor	53	70	80	85
	Fair	40	63	75	81
	Good	31	57	71	78
Chaparral, Narrowleaf (Chamise and redshank)	Poor	71	82	88	91
	Fair	55	72	81	86
Grass, Annual or Perennial	Poor	67	78	86	89
	Fair	50	69	79	84
	Good	38	61	74	80
Meadows or Cienegas (Areas with seasonally high water table, principal vegetation is sod forming grass)	Poor	63	77	85	88
	Fair	51	70	80	84
	Good	30	58	71	78
Open Brush (Soft wood shrubs - buckwheat, sage, etc.)	Poor	62	76	84	88
	Fair	46	66	77	83
	Good	41	63	75	81
Woodland (Coniferous or broadleaf trees predominate. Canopy density is at least 50 percent.)	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	25	55	70	77
Woodland, Grass (Coniferous or broadleaf trees with canopy density from 20 to 50 percent)	Poor	57	73	82	86
	Fair	44	65	77	82
	Good	33	58	72	79
URBAN COVERS -					
Residential or Commercial Landscaping (Lawn, shrubs, etc.)	Good	32	56	69	75
Turf (Irrigated and mowed grass)	Poor	58	74	83	87
	Fair	44	65	77	82
	Good	33	58	72	79
AGRICULTURAL COVERS -					
Fallow (Land plowed but not tilled or seeded)		77	86	91	94

EXISTING CONDITION ON-SITE, OFF-SITE WASH A AND -B

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

CURVE NUMBERS FOR PERVIOUS AREAS

EXHIBIT H

Curve (1) Numbers of Hydrologic Soil-Cover Complexes For Pervious Areas-AMC II

Cover Type (3)	Quality of Cover (2)	Soil Group A	B	C	D
AGRICULTURAL COVERS (Continued)					
Legumes, Close Seeded (Alfalfa, sweetclover, timothy, etc.)	Poor	66	77	85	89
	Good	58	72	81	85
Orchards, Evergreen (Citrus, avocados, etc.)	Poor	57	73	82	86
	Fair	44	65	77	82
	Good	33	58	72	79
Pasture, Dryland (Annual grasses)	Poor	68	79	86	89
	Fair	49	69	79	84
	Good	39	61	74	80
Pasture, Irrigated (Legumes and perennial grass)	Poor	58	74	83	87
	Fair	44	65	77	82
	Good	33	58	72	79
Row Crops (Field crops - tomatoes, sugar beets, etc.)	Poor	72	81	88	91
	Good	67	78	85	89
Small grain (Wheat, oats, barley, etc.)	Poor	65	76	84	88
	Good	63	75	83	87

Notes:

1. All curve numbers are for Antecedent Moisture Condition (AMC) II.
2. Quality of cover definitions:

   Poor-Heavily grazed, regularly burned areas, or areas of high burn potential. Less than 50 percent of the ground surface is protected by plant cover or brush and tree canopy.

   Fair-Moderate cover with 50 percent to 75 percent of the ground surface protected.

   Good-Heavy or dense cover with more than 75 percent of the ground surface protected.
3. See Figure C-2 for definition of cover types.

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

CURVE NUMBERS
FOR
PERVIOUS AREAS

EXHIBIT I

ACTUAL IMPERVIOUS COVER

Land Use (1)	Range-Percent	Recommended Value For Average Conditions-Percent (2)
Natural or Agriculture	0 - 0	0
Public Park	10 - 25	15
School	30 - 50	40
Single Family Residential: (3)		
2.5 acre lots	5 - 15	10
1 acre lots	10 - 25	20
2 dwellings/acre	20 - 40	30
3-4 dwellings/acre	30 - 50	40
5-7 dwellings/acre	35 - 55	50
8-10 dwellings/acre	50 - 70	60
More than 10 dwellings/acre	65 - 90	80
Multiple Family Residential:		
Condominiums	45 - 70	65
Apartments	65 - 90	80
Mobile Home Park	60 - 85	75
Commercial, Downtown Business or Industrial	80 - 100	90

Site Impervious Cover

Notes:

1. Land use should be based on ultimate development of the watershed. Long range master plans for the County and incorporated cities should be reviewed to insure reasonable land use assumptions.

2. Recommended values are based on average conditions which may not apply to a particular study area. The percentage impervious may vary greatly even on comparable sized lots due to differences in dwelling size, improvements, etc. Landscape practices should also be considered as it is common in some areas to use ornamental gravels underlain by impervious plastic materials in place of lawns and shrubs. A field investigation of a study area shall always be made, and a review of aerial photos, where available, may assist in estimating the percentage of impervious cover in developed areas.

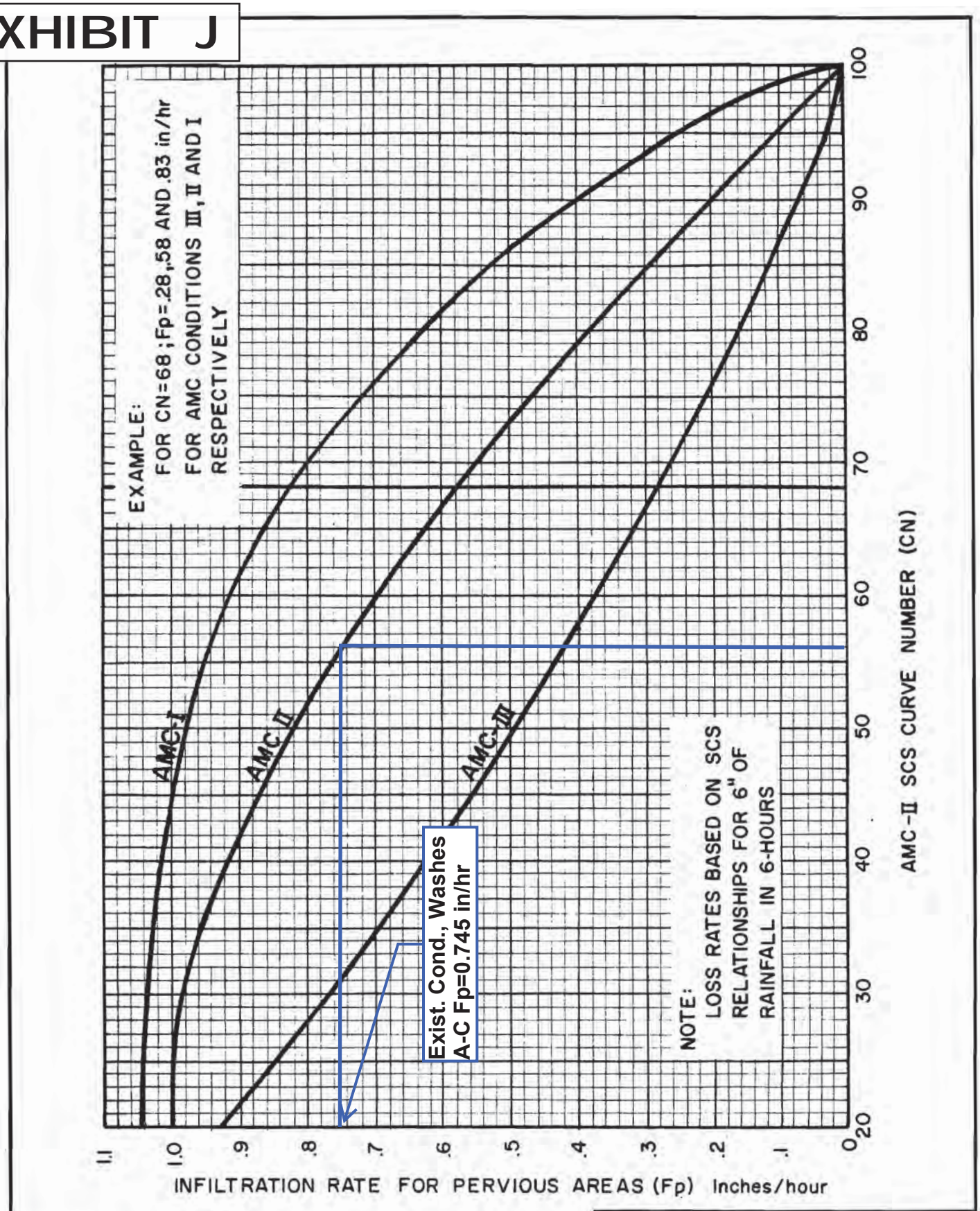
3. For typical equestrian subdivisions increase impervious area 5 percent over the values recommended in the table above.

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

ACTUAL IMPERVIOUS COVER FOR DEVELOPED AREAS

Figure C-4

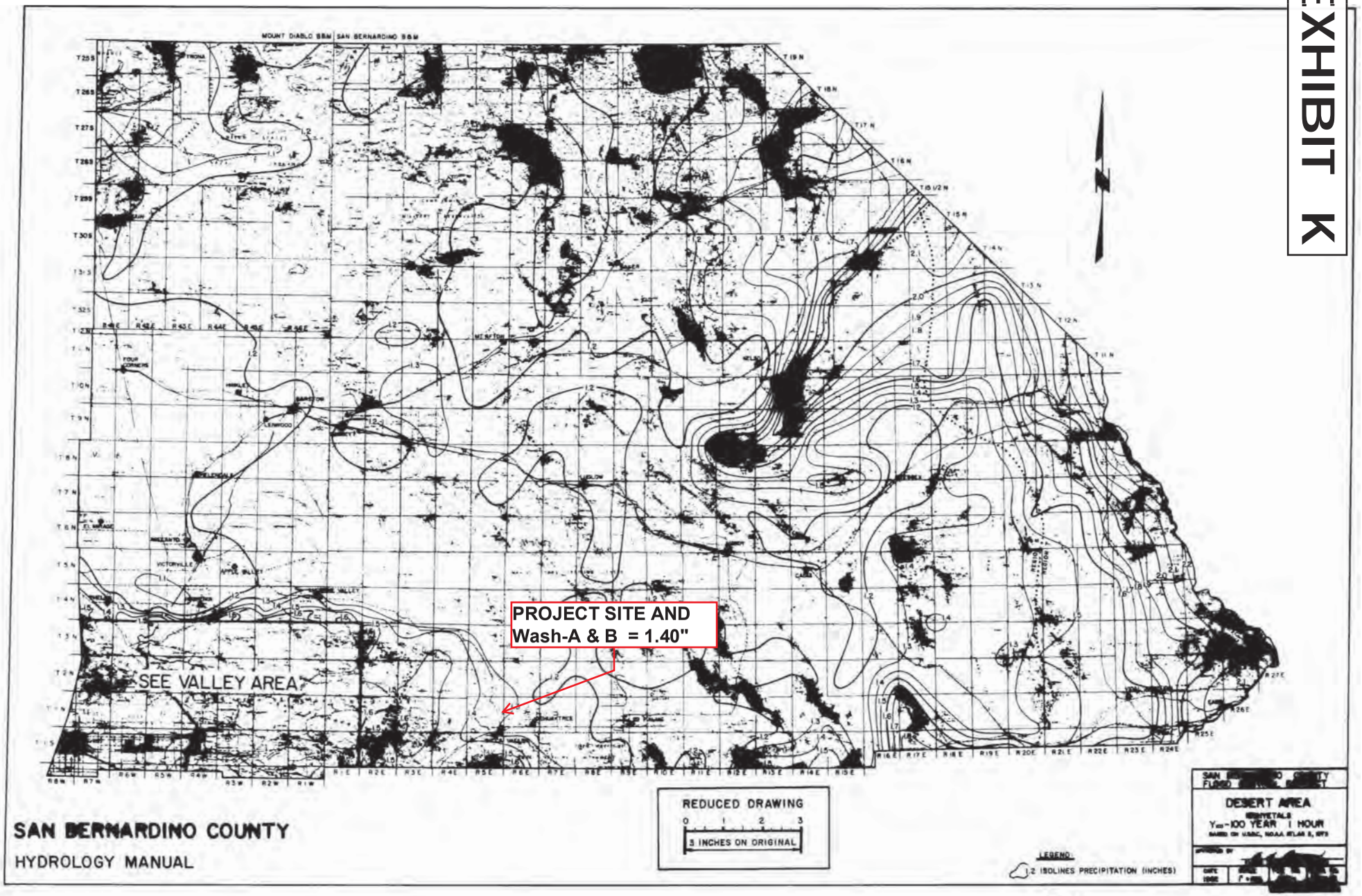
EXHIBIT J



SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

INFILTRATION RATE FOR PERVIOUS AREAS VERSUS SCS CURVE NUMBERS

EXHIBIT K

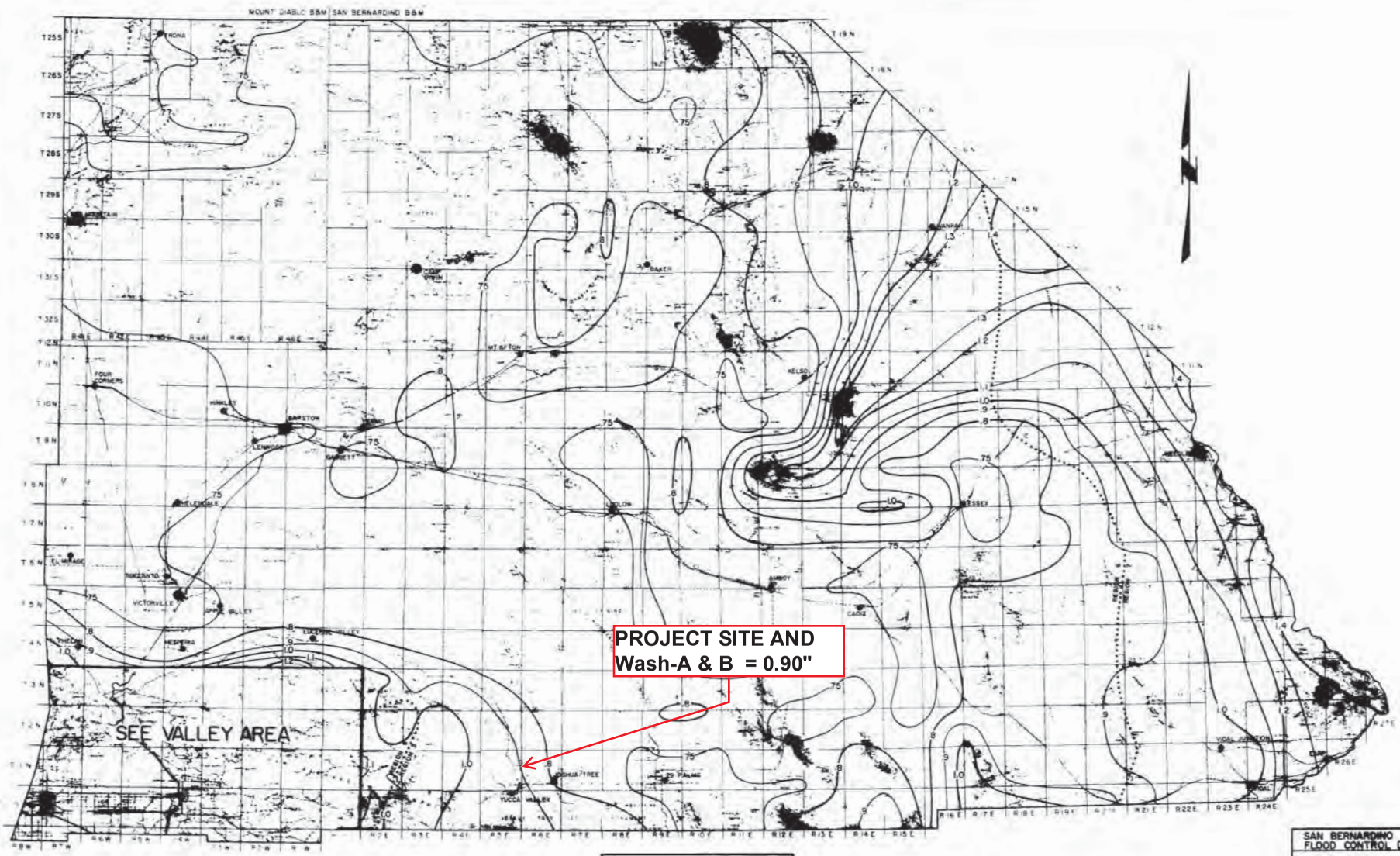


SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

B-18

FIGURE B-10

EXHIBIT L

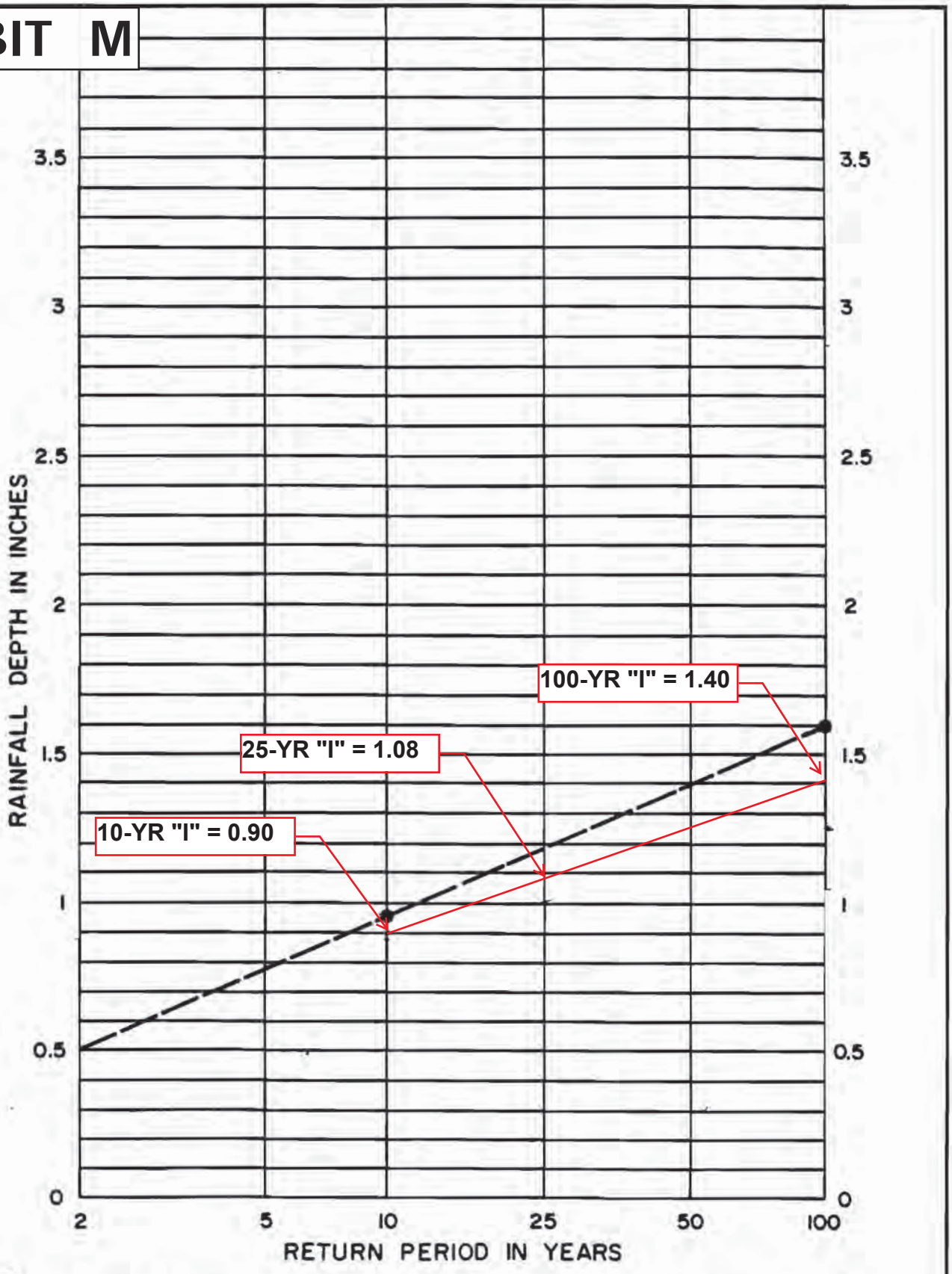


SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

B-17

FIGURE B-9

EXHIBIT M



NOTE:
1. FOR INTERMEDIATE RETURN PERIODS PLOT 10-YEAR AND 100-YEAR ONE HOUR VALUES FROM MAPS, THEN CONNECT POINTS AND READ VALUE FOR DESIRED RETURN PERIOD. FOR EXAMPLE GIVEN 10-YEAR ONE HOUR = 0.95" AND 100-YEAR ONE HOUR = 1.60", 25-YEAR ONE HOUR = 1.18".

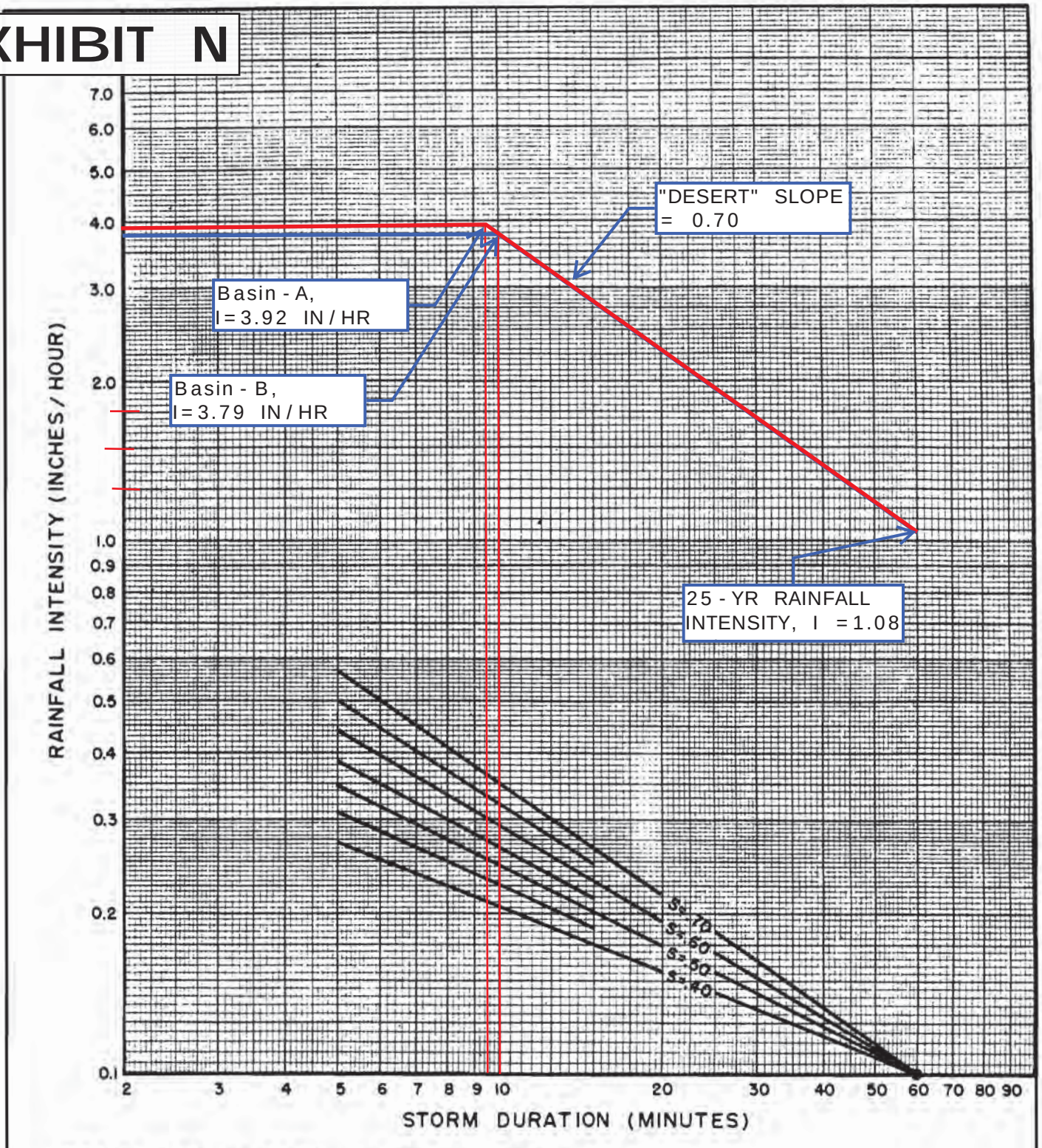
REFERENCE: NOAA ATLAS 2, VOLUME XI - CAL., 1973

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

RAINFALL DEPTH VERSUS RETURN PERIOD FOR PARTIAL DURATION SERIES

FIGURE D-2

EXHIBIT N



DESIGN STORM FREQUENCY = 100 YEARS
ONE HOUR POINT RAINFALL = 1.40 INCHES
LOG-LOG SLOPE = 0.70
PROJECT LOCATION = South Central

25-Year
1.08 INCHES

SAN BERNARDINO COUNTY
HYDROLOGY MANUAL

INTENSITY - DURATION CURVES CALCULATION SHEET

FIGURE D-3

EXHIBIT O

National Flood Hazard Layer FIRMette

FEMA

116°25'34"W 34°10'16"N

116°24'57"W 34°9'46"N

0 250 500 1,000 1,500 2,000 Feet

1:6,000

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/13/2024 at 1:53 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

EXHIBIT Q

NOAA Atlas 14, Volume 6, Version 2
Location name: Yucca Valley, California, USA*
Latitude: 34.1669°, Longitude: -116.421°
Elevation: 3721 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.088 (0.073-0.107)	0.129 (0.107-0.158)	0.191 (0.157-0.234)	0.247 (0.202-0.306)	0.335 (0.265-0.428)	0.412 (0.319-0.537)	0.500 (0.378-0.667)	0.601 (0.442-0.825)	0.758 (0.535-1.08)	1.01 (0.690-1.50)
10-min	0.126 (0.104-0.154)	0.185 (0.153-0.226)	0.274 (0.225-0.335)	0.355 (0.290-0.438)	0.480 (0.380-0.613)	0.590 (0.458-0.770)	0.716 (0.541-0.956)	0.861 (0.634-1.18)	1.09 (0.767-1.56)	1.45 (0.990-2.15)
15-min	0.152 (0.126-0.186)	0.224 (0.185-0.274)	0.331 (0.273-0.405)	0.429 (0.351-0.530)	0.581 (0.459-0.742)	0.714 (0.553-0.931)	0.866 (0.655-1.16)	1.04 (0.766-1.43)	1.31 (0.928-1.88)	1.75 (1.20-2.60)
30-min	0.231 (0.192-0.283)	0.341 (0.282-0.416)	0.503 (0.415-0.617)	0.652 (0.533-0.806)	0.884 (0.699-1.13)	1.09 (0.842-1.42)	1.32 (0.996-1.76)	1.58 (1.17-2.18)	2.00 (1.41-2.86)	2.67 (1.82-3.95)
60-min	0.322 (0.267-0.393)	0.474 (0.392-0.580)	0.701 (0.578-0.859)	0.908 (0.743-1.12)	1.23 (0.973-1.57)	1.51 (1.17-1.97)	1.83 (1.39-2.45)	2.21 (1.62-3.03)	2.78 (1.96-3.98)	3.72 (2.54-5.50)
2-hr	0.447 (0.370-0.545)	0.630 (0.521-0.770)	0.896 (0.738-1.10)	1.13 (0.927-1.40)	1.49 (1.18-1.90)	1.80 (1.39-2.34)	2.13 (1.61-2.85)	2.51 (1.85-3.45)	3.08 (2.18-4.41)	3.75 (2.56-5.56)
3-hr	0.531 (0.440-0.649)	0.739 (0.611-0.903)	1.04 (0.854-1.27)	1.30 (1.06-1.60)	1.69 (1.34-2.16)	2.02 (1.56-2.63)	2.38 (1.80-3.18)	2.78 (2.04-3.82)	3.38 (2.38-4.83)	3.88 (2.65-5.75)
6-hr	0.698 (0.577-0.852)	0.959 (0.793-1.17)	1.33 (1.09-1.63)	1.65 (1.35-2.04)	2.12 (1.67-2.70)	2.50 (1.94-3.26)	2.92 (2.21-3.90)	3.38 (2.48-4.64)	4.04 (2.85-5.78)	4.60 (3.14-6.81)
12-hr	0.870 (0.720-1.06)	1.20 (0.994-1.47)	1.67 (1.37-2.04)	2.07 (1.69-2.56)	2.66 (2.10-3.39)	3.14 (2.43-4.09)	3.66 (2.76-4.88)	4.22 (3.11-5.80)	5.05 (3.56-7.22)	5.73 (3.91-8.49)
24-hr	1.09 (0.966-1.26)	1.53 (1.35-1.76)	2.14 (1.89-2.48)	2.68 (2.35-3.13)	3.47 (2.94-4.18)	4.12 (3.42-5.07)	4.83 (3.92-6.08)	5.61 (4.43-7.26)	6.75 (5.12-9.09)	7.71 (5.64-10.7)
2-day	1.22 (1.08-1.41)	1.74 (1.54-2.01)	2.48 (2.19-2.87)	3.13 (2.74-3.65)	4.10 (3.47-4.93)	4.90 (4.07-6.02)	5.78 (4.68-7.27)	6.75 (5.32-8.73)	8.18 (6.20-11.0)	9.39 (6.88-13.1)
3-day	1.33 (1.18-1.53)	1.92 (1.70-2.21)	2.76 (2.44-3.19)	3.50 (3.07-4.08)	4.61 (3.91-5.55)	5.54 (4.60-6.81)	6.57 (5.32-8.26)	7.70 (6.08-9.96)	9.39 (7.11-12.6)	10.8 (7.92-15.1)
4-day	1.38 (1.22-1.59)	2.01 (1.78-2.32)	2.92 (2.57-3.37)	3.72 (3.25-4.33)	4.91 (4.16-5.91)	5.92 (4.92-7.27)	7.03 (5.70-8.84)	8.26 (6.52-10.7)	10.1 (7.65-13.6)	11.7 (8.54-16.2)
7-day	1.53 (1.36-1.76)	2.26 (2.00-2.61)	3.31 (2.92-3.82)	4.24 (3.71-4.94)	5.63 (4.77-6.78)	6.81 (5.65-8.37)	8.11 (6.57-10.2)	9.56 (7.54-12.4)	11.7 (8.88-15.8)	13.6 (9.94-18.9)
10-day	1.64 (1.45-1.89)	2.43 (2.15-2.81)	3.58 (3.16-4.13)	4.59 (4.02-5.35)	6.10 (5.18-7.35)	7.39 (6.14-9.08)	8.80 (7.14-11.1)	10.4 (8.19-13.4)	12.7 (9.65-17.2)	14.7 (10.8-20.5)
20-day	1.84 (1.63-2.12)	2.74 (2.43-3.16)	4.03 (3.56-4.66)	5.17 (4.53-6.02)	6.86 (5.82-8.26)	8.28 (6.88-10.2)	9.85 (7.98-12.4)	11.6 (9.14-15.0)	14.2 (10.7-19.1)	16.4 (12.0-22.8)
30-day	2.06 (1.82-2.37)	3.07 (2.72-3.54)	4.51 (3.98-5.21)	5.77 (5.05-6.72)	7.63 (6.47-9.19)	9.20 (7.64-11.3)	10.9 (8.84-13.7)	12.8 (10.1-16.6)	15.6 (11.8-21.0)	18.0 (13.2-25.1)
45-day	2.40 (2.12-2.76)	3.55 (3.14-4.09)	5.16 (4.55-5.96)	6.57 (5.75-7.66)	8.63 (7.32-10.4)	10.3 (8.59-12.7)	12.2 (9.91-15.4)	14.3 (11.3-18.5)	17.3 (13.1-23.4)	19.9 (14.6-27.8)
60-day	2.72 (2.42-3.14)	4.00 (3.54-4.61)	5.78 (5.10-6.68)	7.32 (6.41-8.53)	9.57 (8.11-11.5)	11.4 (9.49-14.0)	13.4 (10.9-16.9)	15.7 (12.4-20.3)	18.9 (14.3-25.5)	21.7 (15.9-30.2)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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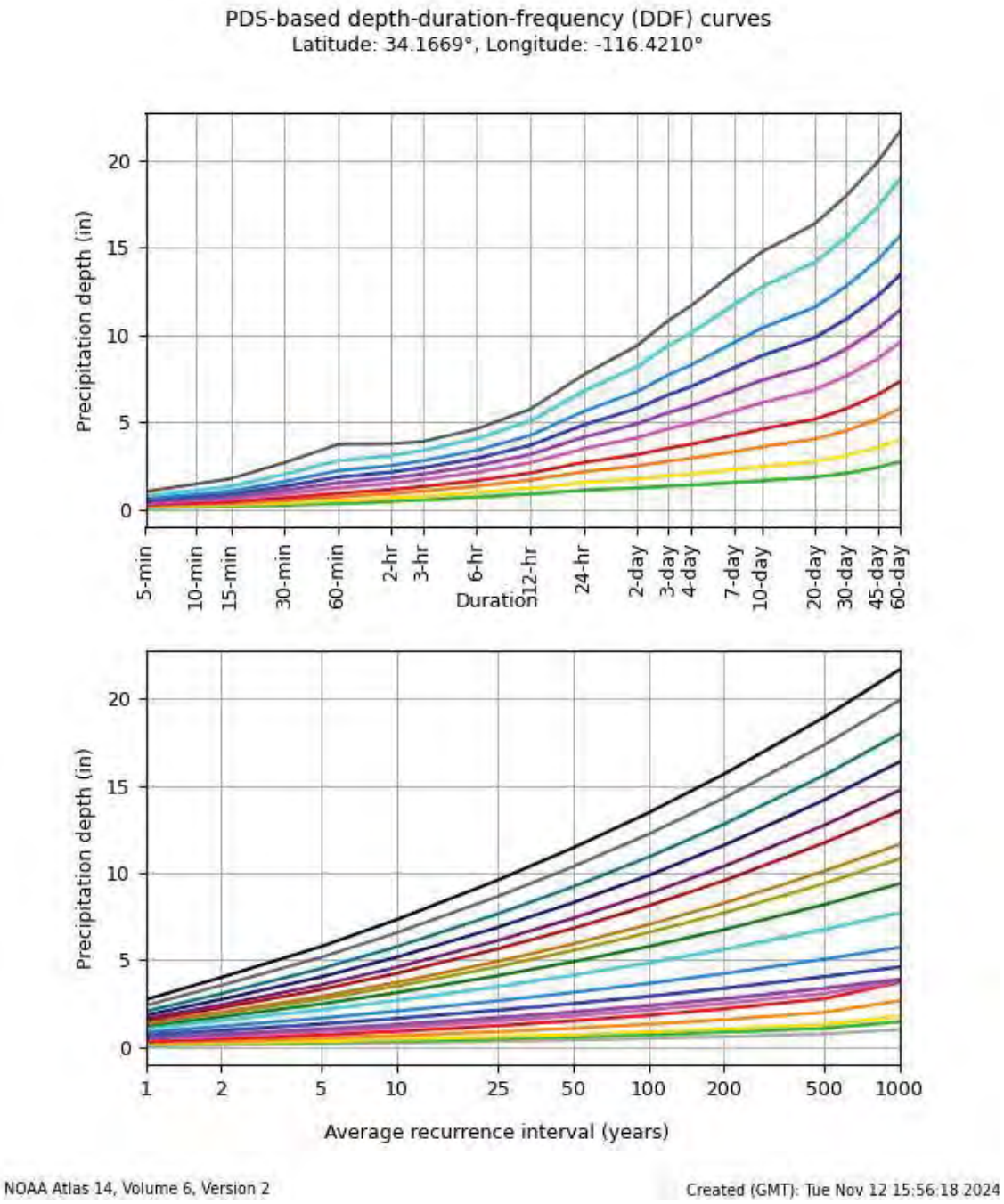
PF graphical



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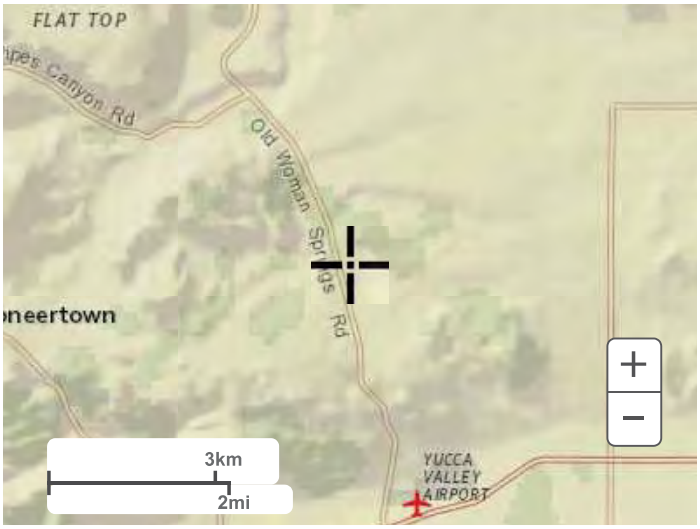
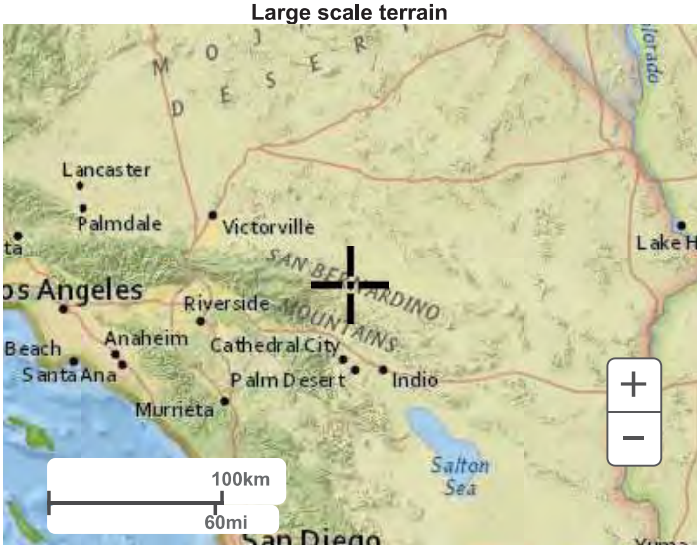
Maps & aerials

Small scale terrain

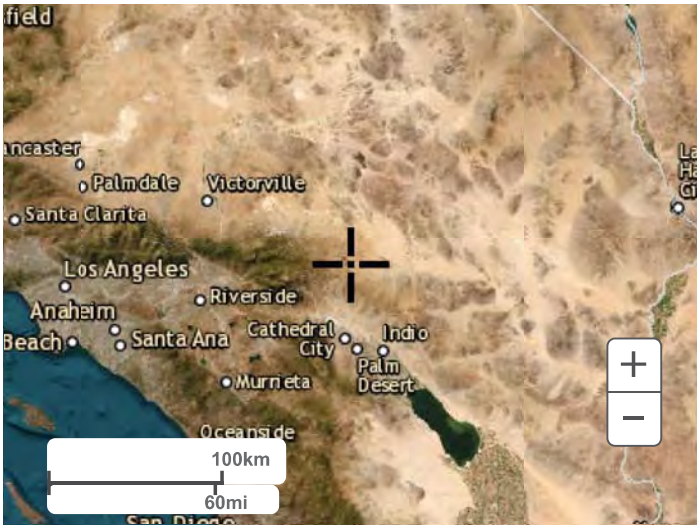


Large scale terrain



Large scale map

Large scale aerial



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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

APPENDIX H

NOISE AND VIBRATION IMPACT ANALYSIS

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

MEMORANDUM

DATE: September 13, 2024

TO: Jared Jerome, Associate Planner

FROM: Jason Lui, Associate/Senior Noise Specialist

SUBJECT: Noise and Vibration Impact Analysis for the Sun Mesa (Billings) Mini Storage Project, Yucca Valley, San Bernardino County, California

INTRODUCTION

This noise and vibration impact analysis has been prepared to evaluate the potential noise and vibration impacts and reduction measures associated with the Sun Mesa (Billings) Mini Storage Project (project) in Yucca Valley, San Bernardino County, California. This memorandum is intended to satisfy the Town of Yucca Valley's (Town) requirements and the California Environmental Quality Act for a project-specific noise and vibration impact analysis by examining the impacts from the proposed uses on the project site and evaluating mitigation measures that the project requires. All references cited in this memorandum are included in Attachment A.

PROJECT LOCATION

The proposed Sun Mesa (Billings) Mini Storage development project site is located on Assessor's Parcel Number 0597-111-67-0000, which is east of State Route 247 (SR-247) and north of Buena Vista Drive in the Town of Yucca Valley in San Bernardino County, California. The 4.34-acre project site is currently undeveloped. Access to the project site is provided by Buena Vista Drive, Sun Mesa Drive, and Newton Lane. Figure 1 (all figures provided in Attachment B) shows the project location.

PROJECT DESCRIPTION

The proposed project would involve the development of a 20-building, 94,500 total square foot (sf) mini storage facility. The site would be bounded by a maximum 10 foot (ft) high security fence and would consist of 17 storage buildings each 4,800 sf in size evenly distributed around the site. Along the eastern property line, two linear storage buildings (one 5,000 sf in floor area and the other 7,500 sf in floor area) would run the length of the project site. Two entrances would be located on the west side of the site and would be gated. A 400 sf manager's unit would be located at the northern entry gate. Additionally, outdoor parking stalls would be located on the north and east sides of the proposed manager's unit building. These parking areas would accommodate approximately 10 vehicles. A 9,600 sf retention basin would be located on the southwest corner of the project site. The proposed project would include associated site improvements including new internal roadways and utility improvements. Access to the proposed project site would be between the hours of 6:00 a.m. and 10:00 p.m. 7 days per week.

The maximum depth of excavation for construction would be approximately 7 ft below the ground surface. Connections to utilities may require additional excavation up to 15 ft below the ground surface at limited locations on site. Construction is anticipated to begin in the fall of 2024 and is anticipated to be completed within 12 months. Figure 2 shows the site plan.

CHARACTERISTICS OF SOUND

Noise is usually defined as unwanted sound. Noise consists of any sound that may produce physiological or psychological damage and/or interfere with communication, work, rest, recreation, and sleep.

To the human ear, sound has two significant characteristics: pitch and loudness. Pitch is generally an annoyance, while loudness can affect the ability to hear. Pitch is the number of complete vibrations, or cycles per second, of a wave resulting in the tone's range from high to low. Loudness is the strength of a sound that describes a noisy or quiet environment and is measured by the amplitude of the sound wave. Loudness is determined by the intensity of the sound waves combined with the reception characteristics of the human ear. Sound intensity refers to how hard the sound wave strikes an object, which in turn produces the sound's effect. This characteristic of sound can be precisely measured with instruments. The analysis of a project defines the noise environment of the project area in terms of sound intensity and its effect on adjacent sensitive land uses.

Measurement of Sound

Sound intensity is measured through the A-weighted scale to correct for the relative frequency response of the human ear. That is, an A-weighted noise level de-emphasizes low and very high frequencies of sound similar to the human ear's de-emphasis of these frequencies. Decibels (dB), unlike the linear scale (e.g., inches or pounds), are measured on a logarithmic scale, which is a scale based on powers of 10.

For example, 10 dB is 10 times more intense than 0 dB, 20 dB is 100 times more intense than 0 dB, and 30 dB is 1,000 times more intense than 0 dB. Thirty decibels (30 dB) represents 1,000 times as much acoustic energy as 0 dB. The decibel scale increases as the square of the change, representing the sound pressure energy. A sound as soft as human breathing is about 10 times greater than 0 dB. The decibel system of measuring sound gives a rough connection between the physical intensity of sound and its perceived loudness to the human ear. A 10 dB increase in sound level is perceived by the human ear as only a doubling of the loudness of the sound. Ambient sounds generally range from 30 dB (very quiet) to 100 dB (very loud).

Sound levels are generated from a source, and their decibel level decreases as the distance from that source increases. Sound dissipates exponentially with distance from the noise source. For a single point source, sound levels decrease approximately 6 dB for each doubling of distance from the source. This drop-off rate is appropriate for noise generated by stationary equipment. If noise is produced by a line source (e.g., highway traffic or railroad operations), the sound decreases 3 dB for each doubling of distance in a hard site environment; however, line source noise in a relatively flat environment with absorptive vegetation decreases 4.5 dB for each doubling of distance.

There are many ways to rate noise for various time periods, but an appropriate rating of ambient noise affecting humans also accounts for the annoying effects of sound. The equivalent continuous sound

level (L_{eq}) is the total sound energy of time-varying noise over a sample period. However, the predominant rating scales for human communities in the State of California are the L_{eq} and community noise equivalent level (CNEL) or the day-night average noise level (L_{dn}) based on A-weighted decibels (dBA). CNEL is the time-varying noise over a 24-hour period, with a 5 dBA weighting factor applied to the hourly L_{eq} for noises occurring from 7:00 p.m. to 10:00 p.m. (defined as relaxation hours), and a 10 dBA weighting factor applied to noises occurring from 10:00 p.m. to 7:00 a.m. (defined as sleeping hours). L_{dn} is similar to the CNEL scale but without the adjustment for events occurring during the evening hours. CNEL and L_{dn} are within 1 dBA of each other and are normally interchangeable. The Town uses the CNEL noise scale for long-term noise impact assessment.

Other noise rating scales of importance when assessing the annoyance factor include the maximum noise level (L_{max}), which is the highest exponential time-averaged sound level that occurs during a stated time period. The noise environments discussed in this analysis for short-term noise impacts are specified in terms of maximum levels denoted by L_{max}, which reflects peak operating conditions and addresses the annoying aspects of intermittent noise. L_{max} is often used together with another noise scale, or noise standards in terms of percentile noise levels, in noise ordinances for enforcement purposes. For example, the L_{10} noise level represents the noise level exceeded 10 percent of the time during a stated period. The L_{50} noise level represents the median noise level. Half the time the noise level exceeds this level, and half the time it is less than this level. The L_{90} noise level represents the noise level exceeded 90 percent of the time and is considered the background noise level during a monitoring period. For a relatively constant noise source, the L_{eq} and L_{50} are approximately the same.

Noise impacts can be described in three categories. The first category includes audible impacts that refer to increases in noise levels noticeable to humans. Audible increases in noise levels generally refer to a change of 3 dB or greater because this level has been found to be barely perceptible in exterior environments. The second category, potentially audible, refers to a change in the noise level between 1 dB and 3 dB. This range of noise levels has been found to be noticeable only in laboratory environments. The last category includes changes in noise levels of less than 1 dB, which are inaudible to the human ear. Only audible changes in existing ambient or background noise levels are considered potentially significant.

Physiological Effects of Noise

Physical damage to human hearing begins at prolonged exposure to noise levels higher than 85 dBA. Exposure to high noise levels affects the entire system, with prolonged noise exposure in excess of 75 dBA increasing body tensions, thereby affecting blood pressure and functions of the heart and the nervous system. In comparison, extended periods of noise exposure above 90 dBA would result in permanent cell damage. When the noise level reaches 120 dBA, a tickling sensation occurs in the human ear, even with short-term exposure. This level of noise is called the threshold of feeling. As the sound reaches 140 dBA, the tickling sensation is replaced by the feeling of pain in the ear (the threshold of pain). A sound level of 160–165 dBA will result in dizziness or loss of equilibrium. The ambient or background noise problem is widespread and generally more concentrated in urban areas than in outlying, less developed areas. Table A lists definitions of acoustical terms, and Table B shows common sound levels and their sources.

Table A: Definitions of Acoustical Terms

Term	Definitions
Decibel, dB	A unit of measurement that denotes the ratio between two quantities that are proportional to power; the number of decibels is 10 times the logarithm (to the base 10) of this ratio.
Frequency, Hz	Of a function periodic in time, the number of times that the quantity repeats itself in 1 second (i.e., number of cycles per second).
A-Weighted Sound Level, dBA	The sound level obtained by use of A-weighting. The A-weighting filter deemphasizes the very low- and very high-frequency components of the sound in a manner similar to the frequency response of the human ear and correlates well with subjective reactions to noise. (All sound levels in this report are A-weighted, unless reported otherwise.)
L_{01}, L_{10}, L_{50}, L_{90}	The fast A-weighted noise levels that are equaled or exceeded by a fluctuating sound level 1%, 10%, 50%, and 90% of a stated time period.
Equivalent Continuous Noise Level, L_{eq}	The level of a steady sound that, in a stated time period and at a stated location, has the same A-weighted sound energy as the time-varying sound.
Community Noise Equivalent Level, CNEL	The 24-hour A-weighted average sound level from midnight to midnight, obtained after the addition of 5 dBA to sound levels occurring in the evening from 7:00 PM to 10:00 PM and after the addition of 10 dBA to sound levels occurring in the night between 10:00 PM and 7:00 AM.
Day/Night Noise Level, L_{dn}	The 24-hour A-weighted average sound level from midnight to midnight, obtained after the addition of 10 dBA to sound levels occurring in the night between 10:00 PM and 7:00 AM.
L_{max}, L_{min}	The maximum and minimum A-weighted sound levels measured on a sound level meter, during a designated time interval, using fast time averaging.
Ambient Noise Level	The all-encompassing noise associated with a given environment at a specified time; usually a composite of sound from many sources at many directions, near and far; no particular sound is dominant.
Intrusive	The noise that intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of a sound depends upon its amplitude, duration, frequency, and time of occurrence and tonal or informational content, as well as the prevailing ambient noise level.

Source: *Handbook of Acoustical Measurements and Noise Control* (Harris 1991).

Table B: Common Sound Levels and Their Noise Sources

Noise Source	A-Weighted Sound Level in Decibels	Noise Environments	Subjective Evaluations
Near Jet Engine	140	Deafening	128 times as loud
Civil Defense Siren	130	Threshold of Pain	64 times as loud
Hard Rock Band	120	Threshold of Feeling	32 times as loud
Accelerating Motorcycle at a Few Feet Away	110	Very Loud	16 times as loud
Pile Driver; Noisy Urban Street/Heavy City Traffic	100	Very Loud	8 times as loud
Ambulance Siren; Food Blender	95	Very Loud	—
Garbage Disposal	90	Very Loud	4 times as loud
Freight Cars; Living Room Music	85	Loud	—
Pneumatic Drill; Vacuum Cleaner	80	Loud	2 times as loud
Busy Restaurant	75	Moderately Loud	—
Near Freeway Auto Traffic	70	Moderately Loud	—
Average Office	60	Quiet	One-half as loud
Suburban Street	55	Quiet	—
Light Traffic; Soft Radio Music in Apartment	50	Quiet	One-quarter as loud
Large Transformer	45	Quiet	—
Average Residence without Stereo Playing	40	Faint	One-eighth as loud
Soft Whisper	30	Faint	—
Rustling Leaves	20	Very Faint	—
Human Breathing	10	Very Faint	Threshold of Hearing
—	0	Very Faint	—

Source: Compiled by LSA (2015).

FUNDAMENTALS OF VIBRATION

Vibration refers to ground-borne noise and perceptible motion. Ground-borne vibration is almost exclusively a concern inside buildings and is rarely perceived as a problem outdoors, where the motion may be discernible, but without the effects associated with the shaking of a building there is less adverse reaction. Vibration energy propagates from a source through intervening soil and rock layers to the foundations of nearby buildings. The vibration then propagates from the foundation throughout the remainder of the structure. Building vibration may be perceived by occupants as the motion of building surfaces, the rattling of items on shelves or hanging on walls, or a low-frequency rumbling noise. The rumbling noise is caused by the vibration of walls, floors, and ceilings that radiate sound waves. Annoyance from vibration often occurs when the vibration exceeds the threshold of perception by 10 vibration velocity decibels (VdB) or less. This is an order of magnitude below the damage threshold for normal buildings. Typical sources of ground-borne vibration are construction activities (e.g., blasting, pile driving, and operating heavy-duty earthmoving equipment), steel-wheeled trains, and occasional traffic on rough roads. Ground-borne vibration and noise from these sources are usually localized to areas within approximately 100 ft from the vibration source, although there are examples of ground-borne vibration causing interference out to distances greater than 200 ft (see the Federal Transit Administration's [FTA] 2018 *Transit Noise and Vibration Impact Assessment Manual*). When roadways are smooth, vibration from traffic, even heavy trucks, is rarely perceptible. It is assumed for most projects that the roadway surface will be smooth enough that ground-borne vibration from street traffic will not exceed the impact criteria; however, both construction of a project and freight train operations on railroad tracks could result in ground-borne vibration that may be perceptible and annoying.

Ground-borne noise is not likely to be a problem because noise arriving via the normal airborne path will usually be greater than ground-borne noise. Ground-borne vibration has the potential to disturb people and damage buildings. Although it is very rare for train-induced ground-borne vibration to cause cosmetic building damage, it is not uncommon for heavy duty construction processes (e.g., blasting and pile driving) to cause vibration of sufficient amplitudes to damage nearby buildings (FTA 2018). Ground-borne vibration is usually measured in terms of vibration velocity, either the root-mean-square (RMS) velocity or peak particle velocity (PPV). The RMS is best for characterizing human response to building vibration, and PPV is used to characterize potential for damage. Decibel notation acts to compress the range of numbers required to describe vibration. Vibration velocity level in decibels is defined as:

$$L_v = 20 \log_{10} [V/V_{ref}]$$

where "L_v" is the VdB, "V" is the RMS velocity amplitude, and "V_{ref}" is the reference velocity amplitude, or 1×10^{-6} inches/second (in/sec) used in the United States.

REGULATORY SETTING

Federal Guidelines

Federal Transit Administration

Noise. The construction noise criteria included in the *Federal Transit Administration (FTA) Transit Noise and Vibration Impact Assessment Manual* (2018) was used to evaluated potential construction noise impacts because Section 9.34.080(F)(3) of the Town's Municipal Code does not have daytime

construction noise level limits for activities that occur within the specified hours. Table C shows the FTA's Detailed Assessment Daytime Construction Noise Criteria based on the composite noise levels for each construction phase.

Table C: Detailed Assessment Daytime Construction Noise Criteria

Land Use	Daytime 1-hour L_{eq} (dBA)
Residential	80
Commercial	85
Industrial	90

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).
dBA = A-weighted decibels
L_{eq} = equivalent continuous sound level

Vibration. Vibration standards included in the FTA *Transit Noise and Vibration Impact Assessment Manual* (2018) were used to evaluate construction vibration impacts even though the Town exempts vibration levels generated from construction between the hours of 7:00 a.m. and 10:00 p.m. based on Section 9.34.090(C) of the Town's Municipal Code. Table D lists the potential vibration building damage criteria associated with construction activities.

Table D: Construction Vibration Damage Criteria

Building Category	PPV (in/sec)
Reinforced concrete, steel, or timber (no plaster)	0.50
Engineered concrete and masonry (no plaster)	0.30
Nonengineered-timber and masonry buildings	0.20
Buildings extremely susceptible to vibration damage	0.12

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).
FTA = Federal Transit Administration
in/sec = inches per second
PPV = peak particle velocity

Local Regulations

Town of Yucca Valley

General Plan. The Town's General Plan Noise Element (Town of Yucca Valley 2014) has established policies to meet the Town's noise-related goal. The applicable policies for the proposed project are listed below.

Goal N1: A noise environment where excessive noise from stationary, transportation-related, and temporary sources of noise are appropriately managed.

Policy N 1-3: Require daytime only truck deliveries to commercial and industrial uses adjacent to residential uses and other sensitive receptors unless there is no feasible alternative.

Policy N 1-13: Enforce Town noise standards and monitor compliance with noise standards.

Policy N 1-18: Enforce standards on the hours of operation for nonemergency construction.

Municipal Code. Section 9.34.080(B) of the Town's Municipal Code establishes noise standards for stationary and mobile noise sources affecting adjacent properties. Table E shows the exterior noise standards for stationary noise sources, and Table F shows the exterior and interior noise standards for mobile noise sources.

Table E: Noise Standards for Stationary Noise Sources

Affected Land Uses	Time Period	Noise Level (dBA)				
		L_{50}	L_{25}	L_8	L_2	L_{max}
Residential	7:00 a.m. to 10:00 p.m.	55	60	65	70	75
	10:00 p.m. to 7:00 a.m.	45	50	55	60	70
Professional Services	Anytime	55	60	65	70	75
Other Commercial	Anytime	60	65	70	75	80
Industrial	Anytime	70	75	80	85	90

Source: Town of Yucca Valley Municipal Code, Section 9.34.080(C) (Town of Yucca Valley 2024).
Note: No person shall operate or cause to be operated a source of sound at a location or allow the creation of noise on property owned, leased, occupied, or otherwise controlled by the person, which causes the noise level, when measured on another property, either incorporated or unincorporated, to exceed any one of the following:

L_{50} = The noise standard for a cumulative period of more than 30 minutes in any hour.
L_{25} = The noise standard plus 5 dBA for a cumulative period of more than 15 minutes in any hour.
L_8 = The noise standard plus 10 dBA for a cumulative period of more than 5 minutes in any hour.
L_2 = The noise standard plus 15 dBA for a cumulative period of more than 1 minute in any hour.
L_{max} = The noise standard plus 20 dBA for any period of time.

dBA = A-weighted decibel

Table F: Noise Standards for Mobile Noise Sources

Categories	Uses	Noise Standard (dBA L_{dn} or CNEL)	
		Interior[1]	Exterior[2,3]
Residential	Single-family, multi-family, duplex, mobile homes	45	60
Commercial	Amphitheater, concert hall, auditorium, movie theater	45	N/A
	Commercial retail, bank, restaurant	50	N/A
	Hotel, motel, transient housing	45	60
	Office building, research and development, professional offices	45	65
Institutional/Public	Hospital, nursing home, school classroom, religious institution, library	45	65
Open Space	Park	N/A	65

Source: Town of Yucca Valley Municipal Code, Section 9.34.080(C) (Town of Yucca Valley 2024).

1 The indoor environment shall exclude bathrooms, kitchens, toilets, closets, and corridors.

2 The outdoor environment shall be limited to: hospital/office building patios, hotel and motel recreation areas, mobile home parks, multi-family private patios or balconies, park picnic areas, private yard of single-family dwellings, and school playgrounds.

3 An exterior noise level of up to 65 dBA CNEL shall be allowed provided exterior noise levels have been substantially mitigated through a reasonable application of the best available noise reduction technology, and interior noise exposure does not exceed 45 dBA CNEL with windows and doors closed. Requiring that windows and doors remain closed to achieve an acceptable interior noise level shall necessitate the use of air conditioning or mechanical ventilation.

CNEL = Community Noise Equivalent Level
dBA = A-weighted decibel
L_{dn} = day-night average noise level
N/A = not applicable

Section 9.34.080(F)(3) of the Town's Municipal Code exempts noise from temporary construction, maintenance, repair, or demolition activities between 7:00 a.m. and 10:00 p.m., except Sundays and federal holidays.

Section 9.34.090(C) of the Town's Municipal Code limits ground vibration that can be felt without the aid of instruments at or beyond the lot line, nor shall any vibration be allowed which produces a particle velocity greater than or equal to 0.2 inch per second measured at or beyond the lot line.

Also, vibration from motor vehicles not under the control of the subject use and temporary construction maintenance or demolition activities between 7:00 a.m. and 10:00 p.m. are exempt.

THRESHOLDS OF SIGNIFICANCE

Based on the *Guidelines for the Implementation of the California Environmental Quality Act* (*State CEQA Guidelines*), Appendix G, Public Resources Code, Sections 15000–15387, a project will normally have a significant effect on the environment related to noise if it will substantially increase the ambient noise levels for adjoining areas or conflict with adopted environmental plans and the goals of the community in which it is located. The following are the thresholds for potential noise impacts.

The *State CEQA Guidelines* indicate that a project would have a significant impact on noise if it would result in:

- Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- Generation of excessive ground-borne vibration or ground-borne noise levels; or
- For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, expose people residing or working in the project area to excessive noise levels.

EXISTING SETTING

Overview of the Existing Noise Environment

The primary existing noise sources in the project area are transportation facilities and industrial activities. Traffic on SR-247, Buena Vista Drive, Sun Mesa Drive, and Newton Lane contributes to the ambient noise levels in the project vicinity. Industrial uses are located immediately west and south of the project site.

Land Uses in the Project Vicinity

Existing land uses within the project area include single-family residences, vacant land, and industrial uses. Single-family residences are located southeast of the project site. Industrial uses are located south and west of the project site. Vacant land is located north and east of the project site.

Ambient Noise Measurements

Two long-term (24-hour) noise level measurements were conducted from July 9 to July 10, 2024, and one long-term (24-hour) noise level measurement was conducted from July 10 to July 11, 2024, using Larson Davis Spark 706RC dosimeters to document the existing noise environment within the project area. Table G summarizes the results of the long-term noise level measurements along with a description of the measurement locations and noise sources that occurred during the measurements. As shown in Table G, daytime noise levels ranged from 40.7 to 63.1 dBA L_{eq} and nighttime noise levels ranged from 43.1 to 53.5 dBA L_{eq}. Also, the calculated CNEL levels at LT-1, LT-2, and LT-3 were 57.3, 57.7, and 57.9 dBA, respectively. The long-term noise level measurement survey sheets along with the hourly L_{eq}, L_{max}, and L_{min} results are provided in Attachment C. Figure 3 shows the long-term monitoring locations.

Table G: Long-Term Ambient Noise Monitoring Results

Monitor No.	Location Description	Noise Levels (dBA)		
		L_{eq}		CNEL
		Daytime[1]	Nighttime[2]	
LT-1	4831 Newton Lane. On a chain-link fence on the northwest corner of the property. Approximately 650 ft north of Buena Vista Drive, 318 ft east of Newton Lane, and 680 ft south of Sun Mesa Drive.	41.9–63.1	43.1–50.7	57.3
LT-2	West side of Newton Lane. On chain-link fence. Approximately 550 ft east of State Route 247 and 430 ft south of Sun Mesa Drive.	43.2–60.5	44.0–53.5	57.7
LT-3	West side of Newton Lane. On chain-link fence. Approximately 640 ft east of State Route 247 and 130 ft south of Sun Mesa Drive.	40.7–62.1	44.0–51.2	57.9

Source: Compiled by LSA (2024).
Note: LT-1 and LT-3 were conducted from July 9 to July 10, 2024. LT-2 was conducted from July 10 to July 11, 2024.
[1] Daytime = Hours between 7:00 a.m. and 10:00 p.m.
[2] Nighttime = Hours between 10:00 p.m. and 7:00 a.m.
CNEL = Community Noise Equivalent Level
dBA = A-weighted decibels
ft = foot/feet
L_{eq} = equivalent continuous sound level

Existing Aircraft Noise

The closest public airport to the project site is the Yucca Valley Airport, which is 2.6 miles southeast of the project site. Based on the *Airport Comprehensive Land Use Plan for Yucca Valley Airport* (San Bernardino County 1992), the project site is well beyond the 60 dBA CNEL noise contour. Also, there are no private airstrips within 2 miles of the project site. Therefore, the project would not expose people working in the project vicinity to aviation-related excessive noise levels, and this topic is not further discussed.

IMPACTS

Short-Term Construction Noise Impacts

Two types of short-term noise impacts would occur during project construction. The first type would be from construction crew commutes and the transport of construction equipment and materials to the project site and would incrementally raise noise levels on roadways leading to the site. The pieces of construction equipment for construction activities would move on site, would remain for the duration of each construction phase, and would not add to the daily traffic volume in the project vicinity. Although there would be a relatively high single-event noise exposure potential causing intermittent noise nuisance (passing trucks at 50 ft would generate up to a maximum of 84 dBA), the effect on longer-term ambient noise levels would be small because the number of daily construction-related vehicle trips is small compared to existing daily traffic volume on SR-247, Buena Vista Drive, and Sun Mesa Drive. The building construction phase and architectural coating phase would overlap that would generate the most trips out of all of the other construction phases, at 144 trips per day based on the California Emissions Estimator Model (CalEEMod) (Version 2022.1) results contained in Attachment B of the *Air Quality, Energy, and Greenhouse Gas Technical Memorandum for the Sun Mesa Mini Storage Project* (LSA 2024a). Roadways that would be used to access the project site are SR-247, Buena Vista Drive, and Sun Mesa Drive. The existing average daily traffic (ADT) volume on SR-247 ranges between 2,950 and 11,837 based on the 2022 California Department of Transportation (Caltrans) Annual Average Daily Truck Traffic for Truck Traffic on California State Highways (Caltrans 2022). Also, the existing ADT volume on Buena Vista Drive is 3,643 based on the *Yucca Valley General Plan Update Environmental Impact Report* (Town of Yucca Valley 2013). In addition, Sun Mesa Drive, is a two-lane road similar to Buena Vista Drive and would experience a similar noise increase. Based

on the information above, construction-related traffic would increase noise by up to 0.2 dBA. A noise level increase of less than 1 dBA would not be perceptible to the human ear. Therefore, short-term construction-related noise impacts associated with worker commute and equipment transport to the project site would be less than significant. No mitigation measures are required.

The second type of short-term noise impact is related noise generated from construction activities. Construction is performed in discrete steps, each of which has its own mix of equipment and, consequently, its own noise characteristics. The proposed project anticipates site preparation, grading, building construction, paving, and architectural coating phases of construction. These various sequential phases change the character of the noise generated on a project site. Therefore, the noise levels vary as construction progresses. Despite the variety in the type and size of construction equipment, similarities in the dominant noise sources and patterns of operation allow construction-related noise ranges to be categorized by work phase. Table H lists the L_{max} recommended for noise impact assessments for typical construction equipment included in the Federal Highway Administration (FHWA) *Highway Construction Noise Handbook* (2006), based on a distance of 50 ft between the equipment and a noise receptor.

Table H: Typical Construction Equipment Noise Levels

Equipment Description	Acoustical Usage Factor (%)[1]	Maximum Noise Level (L_{max}) at 50 ft[2]
Backhoes	40	80
Compactor (ground)	20	80
Compressor (air)	40	80
Concrete Mixer Truck	40	85
Cranes	16	85
Dozers	40	85
Dump Trucks	40	84
Excavators	40	85
Flat Bed Trucks	40	84
Manlift (Forklift)	20	85
Front-end Loaders	40	80
Generator	50	82
Graders	40	85
Jackhammers	20	85
Pavement Scarifier	20	85
Paver	50	77
Pickup Truck	40	55
Pneumatic Tools	50	85
Pumps	50	77
Rock Drills	20	85
Rollers	20	85
Scrapers	40	85
Tractors	40	84
Welder/Torch	40	73

Source: Table 1, *FHWA Roadway Construction Noise Model User's Guide* (FHWA 2006).
Note: Noise levels reported in this table are rounded to the nearest whole number.
[1] Usage factor is the percentage of time during a construction noise operation that a piece of construction equipment is operating at full power.
[2] Maximum noise levels were developed based on Specification 721.560 from the Central Artery/Tunnel program to be consistent with the City of Boston's Noise Code for the "Big Dig" project.
FHWA = Federal Highway Administration
L_{max} = maximum instantaneous sound level
ft = foot/feet

Table I lists the anticipated construction equipment for each construction phase based on the CalEEMod (Version 2022.1) results contained in Attachment B of the *Air Quality, Energy, and Greenhouse Gas Technical Memorandum for the Sun Mesa Mini Storage Project* (LSA 2024a). Table I shows the combined noise level at 50 ft from all of the equipment in each phase and the L_{eq} noise level for each equipment at 50 ft based on the quantity, reference instantaneous maximum (L_{max}) noise level at 50 ft, and the acoustical usage factor. As shown in Table I, construction noise levels would reach up to 88.5 L_{eq} at a distance of 50 ft.

Table I: Summary of Construction Phase, Equipment, and Noise Levels

Construction Phase	Construction Equipment	Quantity	Reference Noise Level at 50 ft (dBA L_{max})	Acoustical Usage Factor[1] (%)	Noise Level at 50 ft (dBA L_{eq})	Combined Noise Level at 50 ft (dBA L_{eq})
Site Preparation	Dozer	3	85	40	85.8	87.3
	Front-End Loader	4	80	40	82.0	
Grading	Grader	1	85	40	81.0	87.0
	Excavator	1	85	40	81.0	
	Front-End Loaders	3	80	40	80.8	
	Dozer	1	85	40	81.0	
Phase 1 and 2 Trenching	Excavator	1	85	40	81.0	82.2
	Front-End Loaders	1	80	40	76.0	
Phase 1 Building Construction	Crane	1	85	16	77.0	86.5
	Forklifts	3	85	20	82.8	
	Generator	1	82	50	79.0	
	Welders	1	73	40	69.0	
	Front-End Loaders	3	80	40	80.8	
Paving	Front-End Loaders	1	80	40	76.0	88.5
	Concrete Mixer Truck	2	85	40	84.0	
	Paver	1	85	50	82.0	
	Pavement Scarafier	2	85	20	81.0	
	Roller	2	85	20	81.0	
Phase 2 Building Construction	Crane	1	85	16	77.0	86.5
	Forklifts	3	85	20	82.8	
	Generator	1	82	50	79.0	
	Front-End Loaders	3	80	40	80.8	
	Welders	1	73	40	69.0	
Architectural Coating	Air Compressors	1	80	40	76.0	76.0

Source: Compiled by LSA (2024).

[1] The acoustical usage factor is the percentage of time during a construction noise operation that a piece of construction equipment operates at full power.

dBA = A-weighted decibels
L_{eq} = equivalent continuous sound level
ft = foot/feet
L_{max} = maximum instantaneous noise level

The closest residential property line is approximately 375 ft from the center of the project site and may be subject to short-term construction noise reaching 71.0 dBA L_{eq} generated by construction activities in the project area. Construction noise is temporary and would stop once project construction is completed. Compliance with the Town's hours of construction pursuant to Section 9.34.080(F)(3) of the Town's Municipal Code listed below would ensure construction-related noise would not be generated during the more sensitive nighttime hours. Furthermore, construction related noise levels would be below the FTA noise level standard of 80 dBA L_{eq} for residential uses.

Therefore, noise levels generated from project construction would be less than significant. No mitigation measures are required.

- The construction contractor shall limit construction activities to between the hours of 7:00 a.m. and 10:00 p.m. Monday through Saturday pursuant to Sections 9.34.080(F)(3) and 9.34.090(C) of the Town's Municipal Code (Town of Yucca Valley 2024). Construction is prohibited outside these hours and anytime on Sundays and federal holidays.

Short-Term Construction Vibration Impacts

Although vibration levels from construction-related activities between the hours of 7:00 a.m. and 10:00 p.m. Monday through Saturday is exempt pursuant to Sections 9.34.080(F)(3) and 9.34.090(C) of the Town's Municipal Code (Town of Yucca Valley 2024), this construction vibration impact analysis assesses the potential for building damage using vibration levels in PPV (in/sec). Vibration levels calculated in PPV are best for characterizing damage potential.

Table J shows the reference vibration levels at a distance of 25 ft for each type of standard construction equipment from the *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018). Project construction is expected to require the use of large bulldozers and loaded trucks, which would generate ground-borne vibration levels of up to 0.089 PPV (in/sec) and 0.076 PPV (in/sec), respectively, when measured at 25 ft.

Table J: Vibration Source Amplitudes for Construction Equipment

Equipment	Reference PPV (in/sec) at 25 ft
Pile Driver (Impact), Typical	0.644
Pile Driver (Sonic), Typical	0.170
Vibratory Roller	0.210
Hoe Ram	0.089
Large Bulldozer[1]	**0.089**
Caisson Drilling	0.089
Loaded Trucks[1]	**0.076**
Jackhammer	0.035
Small Bulldozer	0.003

Source: *Transit Noise and Vibration Impact Assessment Manual* (FTA 2018).
[1] The equipment shown in **bold** is expected to be used on site.
ft = foot/feet
FTA = Federal Transit Administration
in/sec = inches per second
PPV = peak particle velocity

The greatest vibration levels are anticipated to occur during the site preparation and grading phase. All other phases are expected to result in lower vibration levels. The distance to the nearest buildings for vibration impact analysis is measured between the nearest off-site buildings and the project boundary (assuming the construction equipment would be used at or near the project boundary) because vibration impacts normally occur within the buildings.

The formula for vibration transmission is provided below:

$$PPV_{equip} = PPV_{ref} \times (25/D)^{1.5}$$

Table K lists the projected vibration levels from various construction equipment expected to be used on the project site at the project construction boundary to the nearest buildings in the project

vicinity. As shown in Table K, the residential and industrial buildings to the southeast and south of the project site are approximately 200 ft and 80 ft from the project construction boundary and would experience a vibration level of up to 0.004 PPV (in/sec) and 0.016 PPV (in/sec), respectively. These vibration levels would not result in building damage because residential and industrial buildings would be constructed equivalent to or better than nonengineered timber and masonry and vibration levels would not exceed the FTA vibration damage threshold of 0.20 PPV (in/sec). Other building structures that surround the project site would experience lower vibration levels because they are farther away and would be constructed equivalent to or better than

Table K: Potential Construction Vibration Damage

Land Use	Direction	Equipment/ Activity	Reference Vibration Level at 25 ft	Distance to Structure (ft)[1]	Vibration Level
			PPV (in/sec)		PPV (in/sec)
Residence	Southeast	Large bulldozers	0.089	200	0.004
		Loaded trucks	0.076	200	0.003
Industrial	South	Large bulldozers	0.089	80	0.016
		Loaded trucks	0.076	80	0.016

Source: Compiled by LSA (2024).
Note: The FTA-recommended building damage threshold is 0.20 PPV (in/sec) at the receiving nonengineered timber and masonry building.
[1] Distance from the project construction boundary to the building structure.
ft = foot/feet
in/sec = inches per second
FTA = Federal Transit Administration
PPV = peak particle velocity

nonengineered timber and masonry. Also, compliance with the Town's hours of construction pursuant to Sections 9.34.080(F)(3) and 9.34.090(C) of the Town's Municipal Code (Town of Yucca Valley 2024) discussed above would ensure that vibration levels generated from construction-related activities would be exempt. Therefore, construction vibration impacts during project construction would be less than significant. No mitigation measures are required.

Long-Term Traffic Noise Impacts

The project is estimated to generate an ADT volume of 137 based on the *Sun Mesa Mini Storage Project Trip Generation and Vehicle Miles Traveled Memorandum* (LSA 2024b). The existing ADT volume on SR-247 ranges between 2,950 and 11,837 based on the *2022 Caltrans Annual Average Daily Truck Traffic for Truck Traffic on California State Highways* (Caltrans 2022). Also, the existing ADT volume on Buena Vista Drive is 3,643 based on the *Yucca Valley General Plan Update Environmental Impact Report* (Town of Yucca Valley 2013). In addition, Sun Mesa Drive is two-lane road similar to Buena Vista Drive and would experience a similar noise increase . It takes a doubling of traffic to increase traffic noise levels by 3 dBA. Based on the information above, project-related traffic on SR-247, Buena Vista Drive, and Sun Mesa Drive would increase traffic noise levels by up to 0.2 dBA. A noise level increase of less than 1 dBA would not be perceptible to the human ear. Therefore, no traffic noise impacts from project-related traffic on off-site sensitive receptors would occur. No mitigation measures are required.

Long-Term Stationary Source Noise Impacts

Operation of the proposed project would include parking activities and heating, ventilation, and air conditioning (HVAC) equipment that would result in stationary noise impacts as described below.

Access to the proposed storage facility would be between the hours of 6:00 a.m. and 10:00 p.m. 7 days per week. The following provides a detailed noise analysis and discussion of each stationary noise source.

Parking Activities

The proposed project would include 10 parking spaces, and parking activities would occur during access hours described above. Noise generated from parking lot activities would include noise generated by vehicles traveling at slow speeds, engine start-up noise, car door slams, car horns, car alarms, and tire squeals. Representative parking activities would generate a noise level of 76.3 dBA L_8 at 20 ft, based on measurements conducted by LSA (LSA 2016). At a distance of 50 ft, noise levels would be 68.2 dBA L_8. It is estimated that parking activities would generate the maximum noise level for a cumulative period of 4 minutes in any hour during daytime hours and 2 minutes in any hour during nighttime hours based on the project's trip generation (LSA 2024b), which would be 56.4 dBA and 53.4 dBA L_{eq} at a distance of 50 ft, respectively.

Heating, Ventilation, and Air Conditioning

The proposed project would include an HVAC unit for the manager's unit building. The HVAC equipment could operate 24 hours per day. The specifications of the HVAC equipment, including the reference noise level, are provided in Attachment D. The HVAC unit would generate a noise level of 44.4 dBA L_{eq} at a distance of 50 ft.

Stationary Noise Impact Summary

Tables L and M list the individual stationary noise sources from daytime and nighttime, respectively, project operations at each of the surrounding adjacent uses and show the reference noise levels at 50 ft and combined noise levels. As shown in Tables L and M, noise levels generated from project operations during daytime and nighttime hours at the closest residential property line would reach up to a combined stationary noise level of 38.2 and 35.4 dBA L_{eq}, respectively. These noise levels would not exceed the Town's daytime and nighttime 30-minute noise standard of 55 dBA and 45 dBA for residential uses, respectively. Also, maximum noise levels generated from project operations during both daytime and nighttime hours at the closest residential property line would reach up to 51.5 dBA L_{max}. This maximum noise level would not exceed the Town's daytime and nighttime maximum noise standards of 75 dBA and 70 dBA for residential uses, respectively.

Tables L and M shows that noise levels generated from project operations during daytime and nighttime hours at the closest industrial property line would reach up to a combined stationary noise level of 51.9 and 49.1 dBA L_{eq}, respectively. These noise levels would not exceed the Town's 30-minute noise standard of 70 dBA for industrial uses. Also, maximum noise levels generated from project operations during both daytime and nighttime hours at the closest industrial property line would reach up to 65.4 dBA L_{max}. This maximum noise level would not exceed the Town's maximum noise standard of 90 dBA for industrial uses, respectively. Therefore, noise generated from project operations would be less than significant. No mitigation measures are required.

Long-Term Vibration Impacts

The proposed project would not generate vibration. In addition, vibration levels generated from project-related traffic on the roadways (SR-247, Buena Vista Drive, Sun Mesa Drive, and Newton

Lane) leading to the project site are unusual for on-road vehicles because the rubber tires and suspension systems of on-road vehicles provide vibration isolation. Vibration generated from operations of the project would be minimal to negligible and would not exceed the Town's vibration standard of 0.2 in/sec. Therefore, vibration impacts from project-related operations would be less than significant. No mitigation measures are required.

Table L: Stationary Daytime Noise Levels

Land Use	Direction	Noise Source	Reference Noise Level at 50 ft (dBA)		Distance (ft)	Distance Attenuation (dBA)	Noise Level (dBA)		Combined Noise Level (dBA L_{eq})
			L_{max}	L_{eq}			L_{max}	L_{eq}	
Residence	Southeast	Parking Activity	70.0	56.4	420	18.5	51.5	37.9	38.2
		HVAC	--	44.4	430	18.7	--	25.7	
Industrial	South	Parking Activity	70.0	56.4	85	4.6	65.4	51.8	51.9
		HVAC	--	44.4	120	7.6	--	36.8	
Industrial	West	Parking Activity	70.0	56.4	365	17.3	52.7	39.1	39.4
		HVAC	--	44.4	370	17.4	--	27.0	

Source: Compiled by LSA (2024).
dBA = A-weighted decibels
ft = foot/feet
HVAC = heating, ventilation, and air conditioning
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level

Table M: Stationary Nighttime Noise Levels

Land Use	Direction	Noise Source	Reference Noise Level at 50 ft (dBA)		Distance (ft)	Distance Attenuation (dBA)	Noise Level (dBA)		Combined Noise Level (dBA L_{eq})
			L_{max}	L_{eq}			L_{max}	L_{eq}	
Residence	Southeast	Parking Activity	70.0	53.4	420	18.5	51.5	34.9	35.4
		HVAC	--	44.4	430	18.7	--	25.7	
Industrial	South	Parking Activity	70.0	53.4	85	4.6	65.4	48.8	49.1
		HVAC	--	44.4	120	7.6	--	36.8	
Industrial	West	Parking Activity	70.0	53.4	365	17.3	52.7	36.1	36.6
		HVAC	--	44.4	370	17.4	--	27.0	

Source: Compiled by LSA (2024).
dBA = A-weighted decibels
ft = foot/feet
HVAC = heating, ventilation, and air conditioning
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level

REGULATORY COMPLIANCE MEASURES

Compliance with the following measure would ensure that construction noise would be generated only during allowable times:

- The construction contractor shall limit construction activities to between the hours of 7:00 a.m. and 10:00 p.m. Monday through Saturday pursuant to Sections 9.34.080(F)(3) and 9.34.090(C) of the Town's Municipal Code (Town of Yucca Valley 2024). Construction is prohibited outside these hours and anytime on Sundays and federal holidays.

Attachments:
A: References
B: Figures
C: Noise Survey Sheets
D: HVAC Specifications

ATTACHMENT A

REFERENCES

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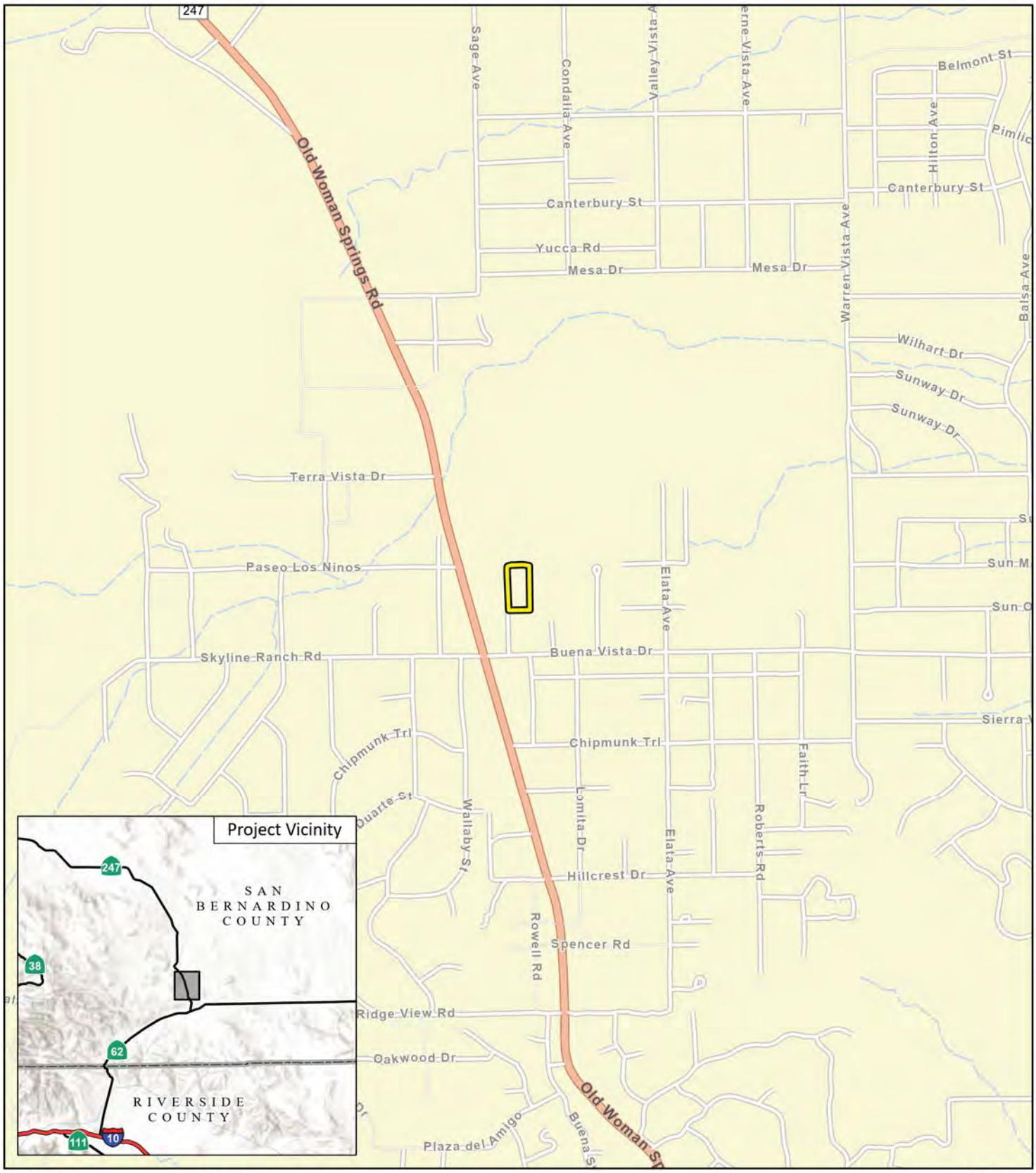
ATTACHMENT B

FIGURES

Figure 1: Project Location
Figure 2: Site Plan
Figure 3: Noise Monitoring Locations



LSA

FIGURE 1

SOURCE: Esri (2024)

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Sun Mesa (Billings) Mini Storage Project

Project Location

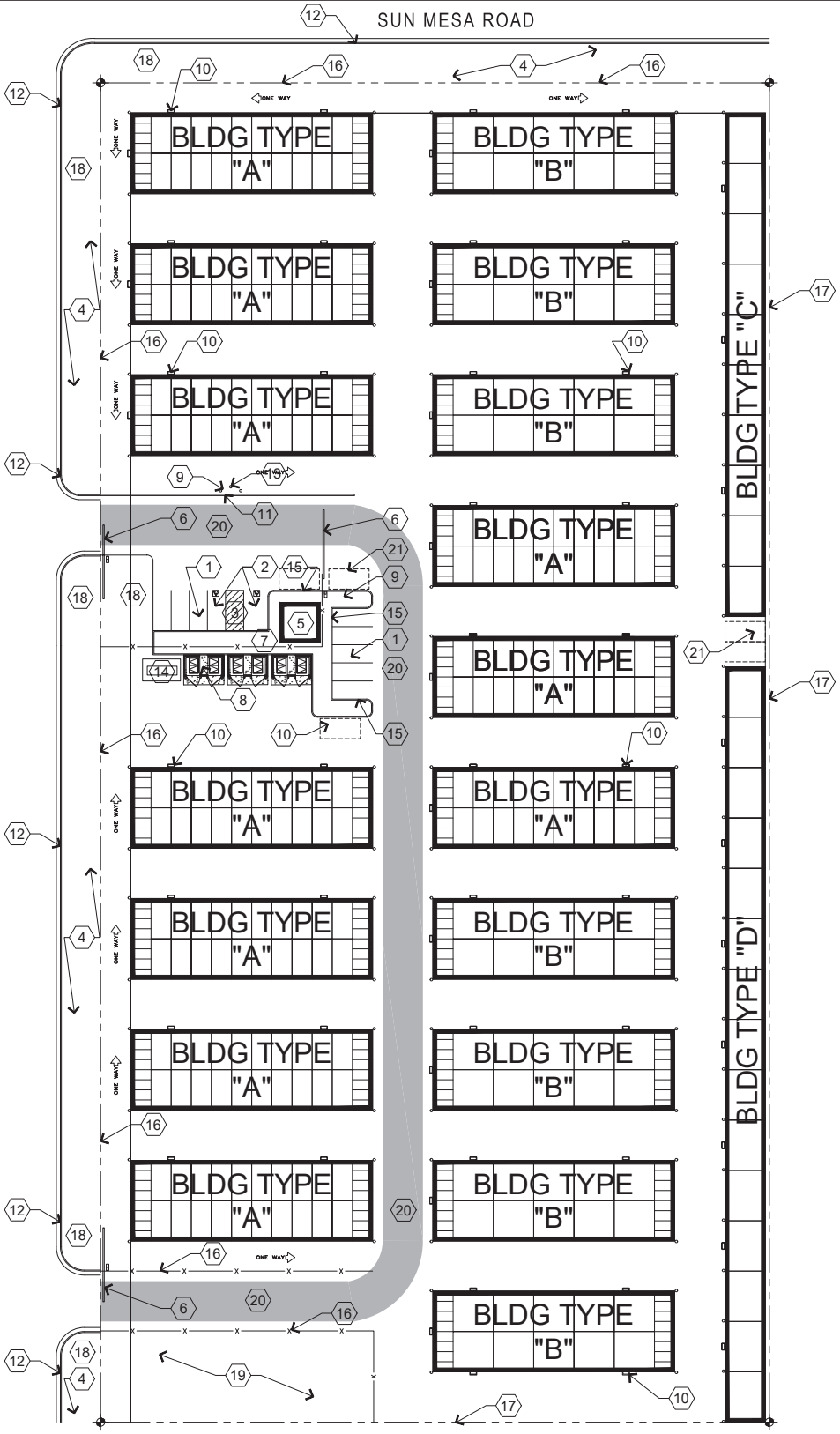

FIGURE 2

LSA

N

NOT TO SCALE

Sun Mesa (Billings) Mini Storage Project

Site Plan

SOURCE: DRP Enterprises

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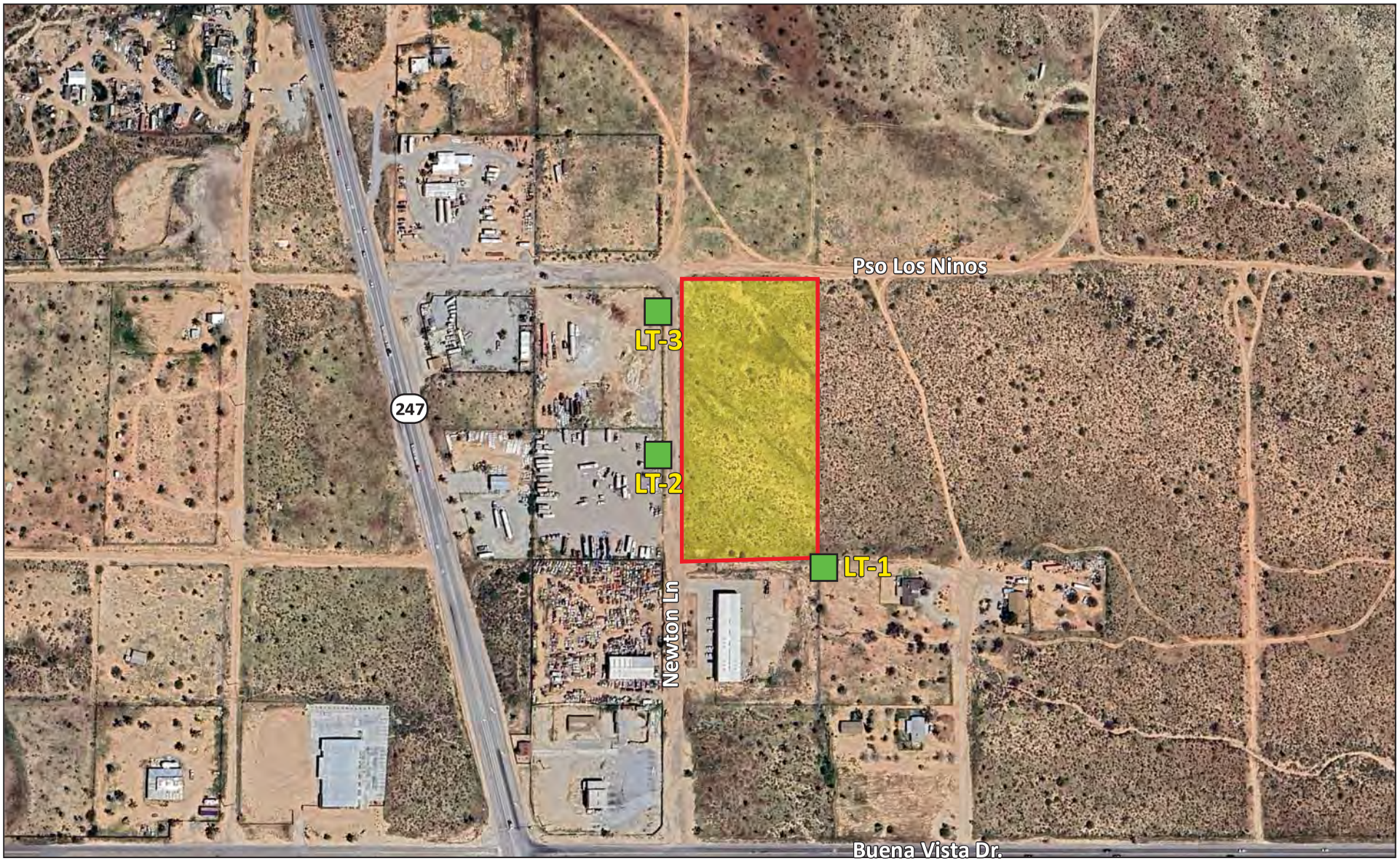

LSA

LEGEND

Project Site Boundary

LT-1 Long-term Noise Monitoring Location

FIGURE 3

N

0 110 220

FEET

SOURCE: Google Earth 2024

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Sun Mesa (Billings) Mini Storage Project

Noise Monitoring Locations

ATTACHMENT C

NOISE SURVEY SHEETS

Noise Measurement Survey – 24 HR

Project Number: 20231230
Project Name: Sun Mesa Mini Storage

Test Personnel: Amber Hazelrigg
Equipment: Spark 706RC (SN: 17815)

Site Number: LT-1 Date: 7/9/24

Time: From 1:00 p.m. To 1:00 p.m.

Site Location: 4831 Newton Lane. On a chain-linked fence on the northwest corner of the property. Approximately 650 ft north of Buena Vista Drive, 318 ft east of Newton Lane, and 680 ft south of Sun Mesa Drive.

Primary Noise Sources: No primary are secondary noises were observed.

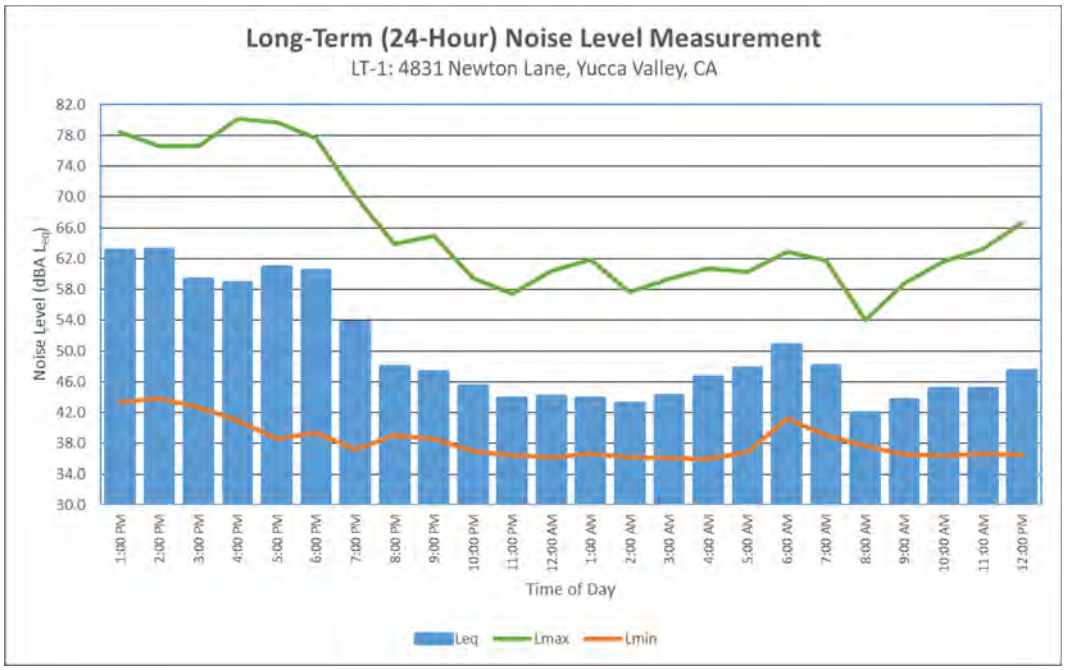
Comments: To the east are a few residential homes.

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-1

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
1:00 PM	7/9/24	62.9	78.4	43.4
2:00 PM	7/9/24	63.1	76.6	43.8
3:00 PM	7/9/24	59.3	76.6	42.7
4:00 PM	7/9/24	58.7	80.1	41.0
5:00 PM	7/9/24	60.9	79.7	38.5
6:00 PM	7/9/24	60.3	77.6	39.4
7:00 PM	7/9/24	53.6	70.1	37.2
8:00 PM	7/9/24	47.9	63.9	39.0
9:00 PM	7/9/24	47.2	64.9	38.5
10:00 PM	7/9/24	45.4	59.4	36.9
11:00 PM	7/9/24	43.8	57.4	36.4
12:00 AM	7/10/24	44.0	60.4	36.2
1:00 AM	7/10/24	43.8	61.8	36.6
2:00 AM	7/10/24	43.1	57.6	36.2
3:00 AM	7/10/24	44.2	59.3	36.0
4:00 AM	7/10/24	46.5	60.7	35.9
5:00 AM	7/10/24	47.7	60.2	36.8
6:00 AM	7/10/24	50.7	62.9	41.2
7:00 AM	7/10/24	48.1	61.7	39.0
8:00 AM	7/10/24	41.9	54.0	37.6
9:00 AM	7/10/24	43.5	58.8	36.5
10:00 AM	7/10/24	45.0	61.6	36.4
11:00 AM	7/10/24	45.1	63.2	36.6
12:00 PM	7/10/24	47.4	66.6	36.5

Source: Compiled by LSA Associates, Inc. (2024).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level



Noise Measurement Survey – 24 HR

Project Number: 20231230
Project Name: Sun Mesa Mini Storage

Test Personnel: Amber Hazelrigg
Equipment: Spark 706RC (SN: 17206)

Site Number: LT-2 Date: 7/10/24

Time: From 2:00 p.m. To 2:00 p.m.

Site Location: West side of Newton Lane. On chain-linked fence. Approximately 550 ft east of Highway 247 and 430 ft south of Sun Mesa Drive.

Primary Noise Sources: No primary are secondary noises were observed.

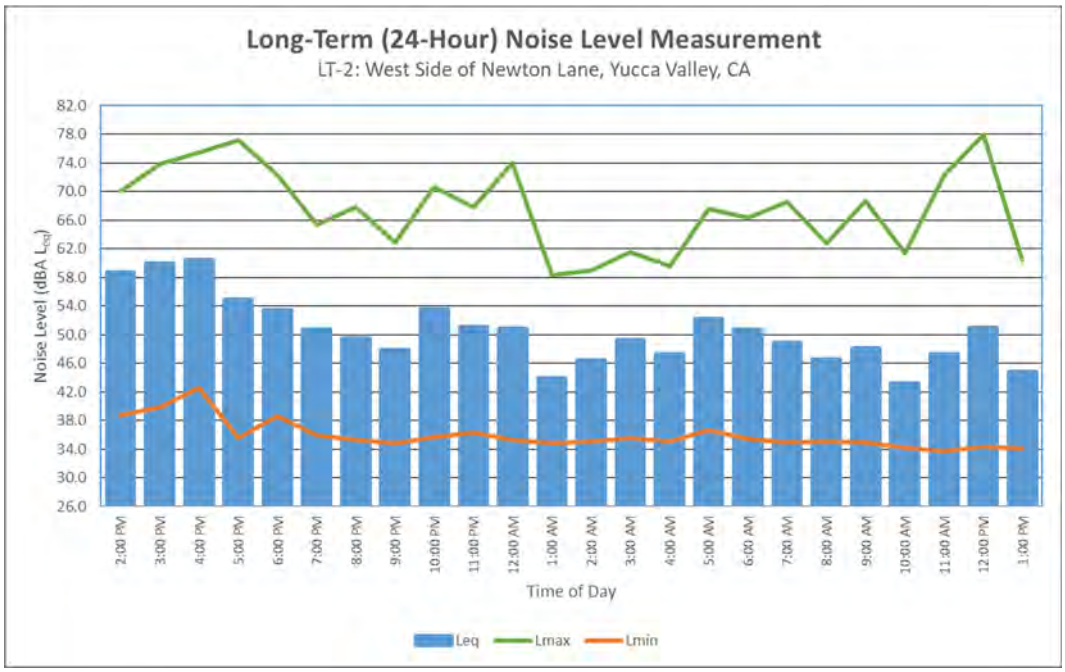
Comments: A scrap yard is adjacent on the south side.

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-2

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
11:00 AM	7/10/24	58.7	70.0	38.8
12:00 PM	7/10/24	59.9	73.9	39.9
1:00 PM	7/10/24	60.5	75.5	42.6
2:00 PM	7/10/24	54.9	77.2	35.6
3:00 PM	7/10/24	53.4	72.4	38.6
4:00 PM	7/10/24	50.7	65.3	36.0
5:00 PM	7/10/24	49.5	67.8	35.4
6:00 PM	7/10/24	47.8	62.9	34.8
7:00 PM	7/10/24	53.5	70.6	35.7
8:00 PM	7/10/24	51.1	67.8	36.3
9:00 PM	7/11/24	50.9	74.0	35.4
10:00 PM	7/11/24	44.0	58.3	34.8
11:00 PM	7/11/24	46.4	59.0	35.1
12:00 AM	7/11/24	49.2	61.5	35.6
1:00 AM	7/11/24	47.3	59.6	35.1
2:00 AM	7/11/24	52.2	67.6	36.7
3:00 AM	7/11/24	50.7	66.3	35.5
4:00 AM	7/11/24	48.9	68.6	35.0
5:00 AM	7/11/24	46.5	62.8	35.1
6:00 AM	7/11/24	48.2	68.7	35.0
7:00 AM	7/11/24	43.2	61.4	34.2
8:00 AM	7/11/24	47.2	72.3	33.8
9:00 AM	7/11/24	51.0	77.9	34.3
10:00 AM	7/11/24	44.9	60.4	34.1

Source: Compiled by LSA Associates, Inc. (2024).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level



Noise Measurement Survey – 24 HR

Project Number: 20231230
Project Name: Sun Mesa Mini Storage

Test Personnel: Amber Hazelrigg
Equipment: Spark 706RC (SN: 18571)

Site Number: LT-3 Date: 7/9/24

Time: From 1:00 p.m. To 1:00 p.m.

Site Location: West side of Newton Lane. On chain-linked fence. Approximately 640 ft east of Highway 247 and 130 ft south of Sun Mesa Drive.

Primary Noise Sources: No primary are secondary noises were observed.

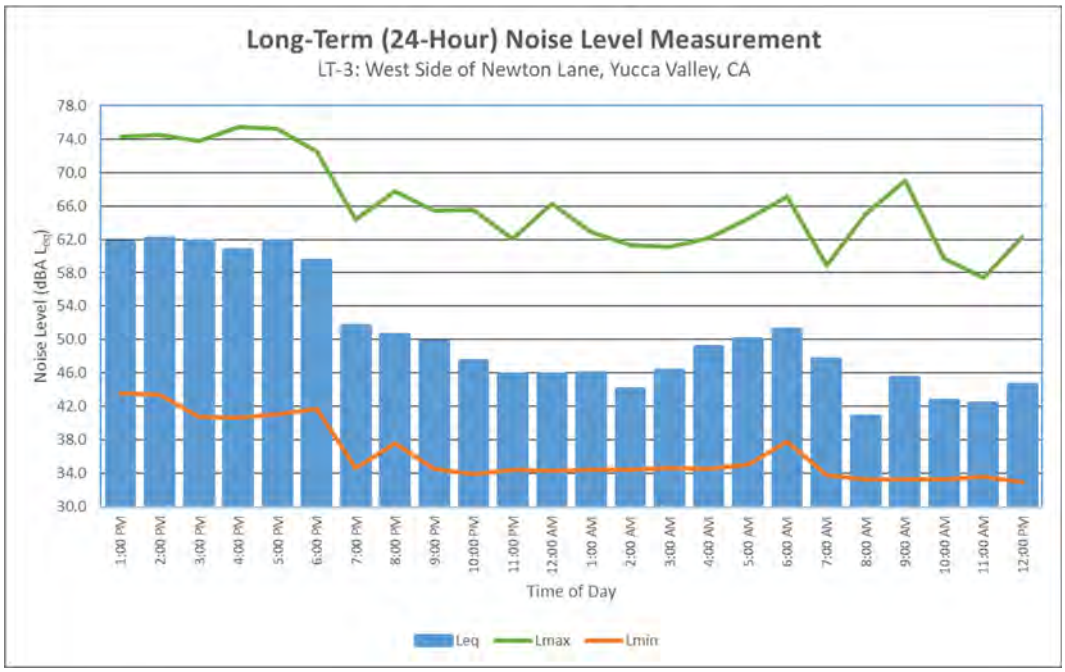
Comments:

Photo:

Long-Term (24-Hour) Noise Level Measurement Results at LT-3

Start Time	Date	Noise Level (dBA)		
		L_{eq}	L_{max}	L_{min}
1:00 PM	7/9/24	61.6	74.3	43.6
2:00 PM	7/9/24	62.1	74.5	43.4
3:00 PM	7/9/24	61.7	73.8	40.8
4:00 PM	7/9/24	60.7	75.4	40.6
5:00 PM	7/9/24	61.7	75.2	41.1
6:00 PM	7/9/24	59.4	72.5	41.7
7:00 PM	7/9/24	51.6	64.4	34.6
8:00 PM	7/9/24	50.6	67.7	37.6
9:00 PM	7/9/24	49.7	65.4	34.5
10:00 PM	7/9/24	47.4	65.5	33.9
11:00 PM	7/9/24	45.8	62.1	34.4
12:00 AM	7/10/24	45.8	66.3	34.3
1:00 AM	7/10/24	46.0	62.9	34.4
2:00 AM	7/10/24	44.0	61.3	34.4
3:00 AM	7/10/24	46.3	61.1	34.6
4:00 AM	7/10/24	49.1	62.2	34.5
5:00 AM	7/10/24	50.0	64.5	35.1
6:00 AM	7/10/24	51.2	67.1	37.8
7:00 AM	7/10/24	47.7	58.9	33.8
8:00 AM	7/10/24	40.7	65.0	33.3
9:00 AM	7/10/24	45.4	69.0	33.3
10:00 AM	7/10/24	42.7	59.7	33.3
11:00 AM	7/10/24	42.4	57.4	33.6
12:00 PM	7/10/24	44.5	62.3	33.0

Source: Compiled by LSA Associates, Inc. (2024).
dBA = A-weighted decibel
L_{eq} = equivalent continuous sound level
L_{max} = maximum instantaneous noise level
L_{min} = minimum measured sound level



ATTACHMENT D

HVAC SPECIFICATIONS

The new degree of comfort.™

Rheem *Classic*® Series Air Conditioners

RA14 Series

Efficiencies up to 14 SEER/11.5 EER
Nominal Sizes 1½ to 5 Ton [5.28 to 17.6 kW]
Cooling Capacities 17.3 to 60.5 kBTU
[5.7 to 17.7 kW]

"Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet Energy Star. Ask your Contractor for details or visit www.energystar.gov."

- Composite base pan – dampens sound, captures louver panels, eliminates corrosion and reduces number of fasteners needed
- Powder coat paint system – for a long lasting professional finish
- Scroll compressor – uses 70% fewer moving parts for higher efficiency and increased reliability
- Modern cabinet aesthetics – increased curb appeal with visually appealing design
- Curved louver panels – provide ultimate coil protection, enhance cabinet strength, and increased cabinet rigidity
- Optimized fan orifice – optimizes airflow and reduces unit sound
- Rust resistant screws – confirmed through 1500-hour salt spray testing
- PlusOne™ **Expanded Valve Space** – 3"-4"-5" service valve space – provides a minimum working area of 27-square inches for easier access
- PlusOne™ **Triple Service Access** – 15" wide, industry leading corner service access – makes repairs easier and faster. The two fastener removable corner allows optimal access to internal unit components. Individual louver panels come out once fastener is removed, for faster coil cleaning and easier cabinet reassembly
- Diagnostic service window with two-fastener opening – provides access to the high and low pressure.
- External gauge port access – allows easy connection of "low-loss" gauge ports
- Single-row condenser coil – makes unit lighter and allows thorough coil cleaning to maintain "out of the box" performance
- 35% fewer cabinet fasteners and fastener-free base – allow for faster access to internal components and hassle-free panel removal
- Service trays – hold fasteners or caps during service calls
- QR code – provides technical information on demand for faster service calls
- Fan motor harness with extra long wires allows unit top to be removed without disconnecting fan wire.

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Standard Feature Table

STANDARD FEATURES							
Feature	**18**	**24**	**30**	**36**	**42**	**48**	**60**
R-410a Refrigerant	√	√	√	√	√	√	√
Maximum SEER	15.5	15	15.5	15.5	15	15	14
Maximum EER	13	13	13	13	13	13	12
Scroll Compressor	√	√	√	√	√	√	√
Field Installed Filter Drier	√	√	√	√	√	√	√
Front Seating Service Valves	√	√	√	√	√	√	√
Internal Pressure Relief Valve	√	√	√	√	√	√	√
Internal Thermal Overload	√	√	√	√	√	√	√
Long Line capability	√	√	√	√	√	√	√
Low Ambient capability with Kit	√	√	√	√	√	√	√
3-4-5 Expanded Valve Space	√	√	√	√	√	√	√
Composite Basepan	√	√	√	√	√	√	√
2 Screw Control Box Access	√	√	√	√	√	√	√
15" Access to Internal Components	√	√	√	√	√	√	√
Quick release louver panel design	√	√	√	√	√	√	√
No fasteners to remove along bottom	√	√	√	√	√	√	√
Optimized Venturi Airflow	√	√	√	√	√	√	√
Single row condenser coil	√	√	√	√	√	√	√
Powder coated paint	√	√	√	√	√	√	√
Rust resistant screws	√	√	√	√	√	√	√
QR code	√	√	√	√	√	√	√
External gauge ports	√	√	√	√	√	√	√
Service trays	√	√	√	√	√	√	√

√ = Standard

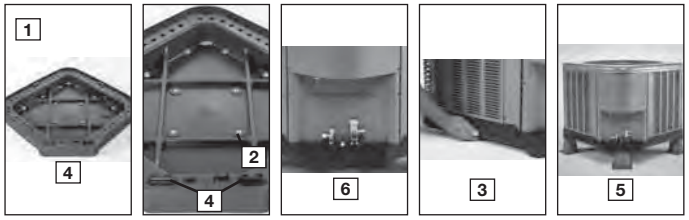
Available SKUs

Available Models	Description
RA1418AJ1NA	*Classic*® Series 1 1/2 ton 14 SEER Single-Stage Air Conditioner-208/230/1/60
RA1418AJ1NB	*Classic*® Series 1 1/2 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1424BJ1NA	*Classic*® Series 2 ton 14 SEER Single-Stage Air Conditioner-208/230/1/60
RA1424BJ1NB	*Classic*® Series 2 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1430AJ1NA	*Classic*® Series 2 1/2 ton 14 SEER Single-Stage Air Conditioner-208/230/1/60
RA1430AJ1NB	*Classic*® Series 2 1/2 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1436AC1NB	*Classic*® Series 3 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1436AD1NB	*Classic*® Series 3 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-460/3/60
RA1436AJ1NA	*Classic*® Series 3 ton 14 SEER Single-Stage Air Conditioner-208/230/1/60
RA1436AJ1NB	*Classic*® Series 3 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1442AD1NB	*Classic*® Series 3 1/2 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-460/3/60
RA1442CC1NB	*Classic*® Series 3 1/2 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1442CJ1NA	*Classic*® Series 3 1/2 ton 14 SEER Single-Stage Air Conditioner-208/230/1/60
RA1442CJ1NB	*Classic*® Series 3 1/2 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1448AC1NB	*Classic*® Series 4 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1448AD1NB	*Classic*® Series 4 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-460/3/60
RA1448AJ1NA	*Classic*® Series 4 ton 14 SEER Single-Stage Air Conditioner-208/230/1/60
RA1448AJ1NB	*Classic*® Series 4 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1460AD1NB	*Classic*® Series 5 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-460/3/60
RA1460BC1NB	*Classic*® Series 5 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1460BJ1NA	*Classic*® Series 5 ton 14 SEER Single-Stage Air Conditioner-208/230/1/60
RA1460BJ1NB	*Classic*® Series 5 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1460CC1NB	*Classic*® Series 5 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60
RA1460CD1NB	*Classic*® Series 5 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-460/3/60
RA1460CJ1NA	*Classic*® Series 5 ton 14 SEER Single-Stage Air Conditioner-208/230/1/60
RA1460CJ1NB	*Classic*® Series 5 ton 14 SEER Single-Stage Air Conditioner w/ High/Low Pressure-208/230/1/60

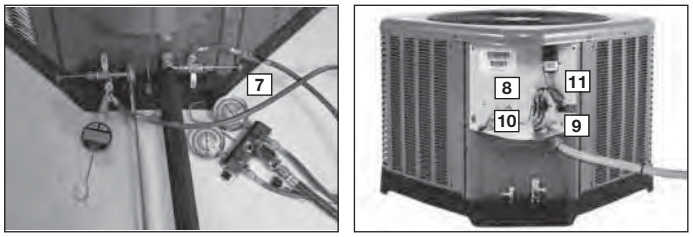
Introduction to RA14 Air Conditioner

The RA14 is our 14 SEER air conditioner and is part of the Rheem air conditioner product line that extends from 13 to 20 SEER. This highly featured and reliable air conditioner is designed for years of reliable, efficient operation when matched with Rheem indoor aluminum evaporator coils and furnaces or air handler units with aluminum evaporators.

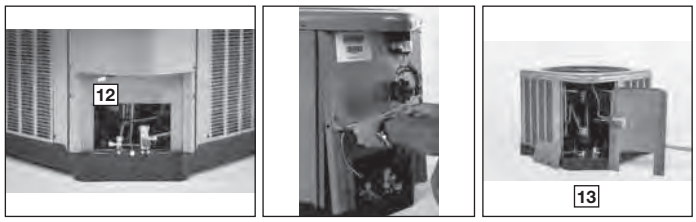
Our unique composite base (1) reduces sound emission, eliminates rattles, significantly reduces fasteners, eliminates corrosion and has integrated brass compressor attachment inserts (2). Furthermore it has incorporated into the design, water management features, means for hand placement (3) for unit maneuvering, screw trays (4) and inserts for lifting off unit pad. (5)



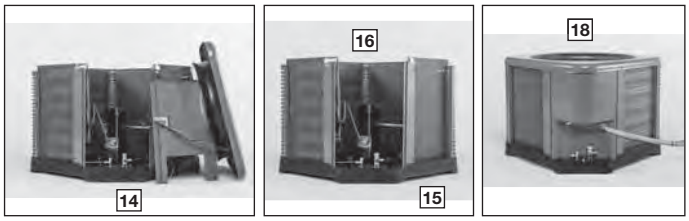
Service Valves (6) are rigidly mounted in the composite base with 3" between suction and discharge valves, 4" clearance below service valves and a minimum of 5" above the service valves, creating industry leading installation ease. The minimum 27 square-inches around the service valves allows ample room to remove service valve schrader prior to brazing, plenty of clearance for easy brazing of the suction and discharge lines to service valve outlets, easy access and hookup of low loss refrigerant gauges (7), and access to the service valve caps for opening. For applications with long-line lengths up to 250 feet total equivalent length, up to 200 feet condenser above evaporator, or up to 80 feet evaporator above condenser, the long-line instructions in the installation manual should be followed.



Controls are accessed from the corner of the unit by removing only two fasteners from the control access cover, revealing the industry's largest 15" wide and 14" tall control area (8). With all this room in the control area the high voltage electrical whip (9) can easily be inserted through the right size opening in the bottom of the control area. Routing it leads directly to contractor lugs for connection. The low voltage control wires (10) are easily connected to units low voltage wiring. If contactor or capacitor (11) needs to be replaced there is more than adequate space to make the repair. Furthermore, if high pressure and low pressure model was not purchased but is desired to be installed in the field, the service window (12) can be removed by removing two screws, to access the high and low side schrader fittings for easy field installation. The entire corner can be removed providing ultimate access to install the high and low pressure switch. (13)



If in the rare event, greater access is needed to internal components, such as the compressor, the entire corner of the unit can be removed along with the top cover assembly to have unprecedented access to interior of the unit (14). Extra wire length is incorporated into each outdoor fan and compressor so top cover and control panel can be positioned next to the unit. With minimal effort the plug can be removed from the compressor and the outdoor fan wires can be removed from the capacitor to allow even more uncluttered access to the interior of the unit (15). Outdoor coil heights range from as short as 22" to 32", aiding access to the compressor. Disassembly to this degree and complete reassembly only takes a first time service technician less than 10 minutes. (15)

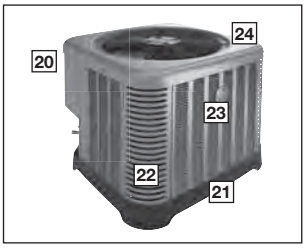


All units utilize strong formed louver panels which provide industry leading coil protection. Louver removal for coil cleaning is accomplished by removing one screw and lifting the panel out of the composite base pan. (17) All RA14 units utilize single row coils (16) making cleaning easy and complete, restoring the performance of the air conditioner back to out of the box performance levels year after year.

The outdoor fan motor has sleeve bearings and is inherently protected. The motor is totally enclosed for maximum protection from weather, dust and corrosion. Access to the outdoor fan is made by removing four fasteners from the fan grille. The outdoor fan can be removed from the fan grille by removing 4 fasteners in the rare case outdoor fan motor fails.

Each cabinet has optimized composite (19) fan orifice assuring efficient and quiet airflow.

The entire cabinet has powder post paint (20) achieving 1000 hour salt spray rating, allowing the cabinet to retain its aesthetics throughout its life.



Scroll compressors with standard internal pressure relief and internal thermal overload are used on all capacities assuring longevity of high efficient and quiet operation for the life of the product.

Each unit is shipped with filter drier for field installation and will trap any moisture or dirt that could contaminate the refrigerant system.

All cabinets have industry leading structural strength due to the composite base pan (21), interlocking corner post (22), formed curved louver panels (23) and drawn top cover (24) making it the most durable cabinet on the market today.

Each RA14 capacity has undergone rigorous psychometric testing to assure performance ratings of capacity, SEER and EER per AHRI Standard 210/240 rating conditions. Also each unit bears the UL mark and each unit is certified to UL 1995 safety standards.

Each unit has undergone specific strain and modal testing to assure tubing (25) is outside the units natural frequency and that the suction and discharge lines connected to the compressor withstand any starting, steady state operation or shut down forces imposed by the compressor.

All units have been sound tested in sound chamber to AHRI 270 rating conditions, and A-weighted Sound Power Level tables produced, assuring units have acceptable noise qualities (see page 9). Each unit has been ran in cooling operation at 95°F and 82°F and sound ratings for the RA14 range from as low as 74 dBA to 77 dBA.

All units have been ship tested to assure units meet stringent “over the road” shipping conditions.

As manufactured all units in the RA14 family have cooling capability to 55 °F. Addition of low ambient control will allow the unit to operate down to 0°F. Factory testing is performed on each unit. All component parts meet well defined specification and continually go through receiving inspections. Each component installed on a unit is scanned, assuring correct component utilization for a given unit capacity and voltage. All condenser coils are leak tested with pressurization test to 550#’s and once installed and assembled, each units’ complete refrigerant system is helium leak tested. All units are fully charged from the factory for up to 15 feet of piping. All units are factory run tested. The RA14 has a 10-year conditional compressor and parts warranty (registration required).

Optional Accessories
(Refer to accessory chart for model #)

Compressor Crankcase Heater
Protects against refrigerant migration that can occur during low ambient operation

Compressor Sound Cover
- Reinforced vinyl compressor cover containing a 1½ inch thick batt of fiberglass insulation
- Open edges are sealed with a one-inch wide hook and loop fastening tape

Compressor Hard Start Kit
- Single-phase units are equipped with a PSC compressor motor, this type of motor normally does not need a potential relay and start capacitor
- Kit may be required to increase the compressor starting torque, in conditions such as low voltage

Low Ambient Kit
- Air conditioners operate satisfactorily in the cooling mode down to 55°F outdoor air temperature without any additional controls
- This Kit can be added in the field enabling unit to operate properly down to 0° in the cooling mode
- Crankcase heater and freezestat should be installed on compressors equipped with a low ambient kit

3"/6"/12"
- Gray high density polyethylene feet are available to raise unit off of mounting surface away from moisture

Low Pressure
- Can be added in field enabling the unit to shut off compressor on loss of charge

NOTE: Unit can be purchased with high and low pressure installed at factory. (Refer to SKU list)

High Pressure
- Can be added in field enabling unit to shut off compressor if unit loses outdoor fan operation.

NOTE: Unit can be purchased with high and low pressure installed at factory. (Refer to SKU list)

Decorative Top
- Can be installed on fan grille

Air Conditioners*

R	A	14	24	A	J	1	N	A	*
Brand	**Product Category**	**SEER**	**Capacity BTU/HR**	**Major Series***	**Voltage**	**Type**	**Controls**	**Minor Series****	**Option Code**
Rheem	A - Air Conditioners	14 - 14 SEER	18 - 18,000 [5.28 kW] 24 - 24,000 [7.03 kW] 30 - 30,000 [8.79 kW] 36 - 36,000 [10.55 kW] 42 - 42,000 [12.31 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	A - 1st Design B - 2nd Design	J - 1ph, 208-230/60 C - 3ph, 208-230/60 D - 3ph, 460/60	1 - Single-stage	N - Non-Communicating	A - 1st Design B - 2nd Design	N/A

*See page 3 for available SKU's.

Heat Pumps (For Reference)**

R	P	14	24	A	J	1	N	A	*
Brand	**Product Category**	**SEER**	**Capacity BTU/HR**	**Major Series***	**Voltage**	**Type**	**Controls**	**Minor Series****	**Option Code**
Rheem	P - Heat Pump	13 - 13 SEER 14 - 14 SEER 16 - 16 SEER 17 - 17 SEER 20 - 20 SEER	18 - 18,000 [5.28 kW] 24 - 24,000 [7.03 kW] 30 - 30,000 [8.79 kW] 36 - 36,000 [10.55 kW] 42 - 42,000 [12.31 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	A - 1st Design	J - 1ph, 208-230/60 C - 3ph, 208-230/60 D - 3ph, 460/60	1 - Single-stage 2 - Two-stage V - Inverter P - Piston	C - Communicating N - Non-Communicating	A - 1st Design	N/A

Furnace Coils (For Reference)**

R	C	F	24	17	S	T	A	M	C	A	*
Brand	**Product Category**	**Type**	**Capacity BTU/HR**	**Width**	**Efficiency**	**Metering Device**	**Major Series***	**Orientation**	**Casing**	**Minor Series****	**Option Code**
Rheem	C - Evap Coil	F - Furn Coil H - Air-Handler Coil	24 - 24,000 [7.03 kW] 36 - 36,000 [10.55 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	14 - 14" 17 - 17.5" 21 - 21" 24 - 24.5"	S- Standard Eff. M- Mid Eff. H- High Eff.	T-TXV E-EEV P-Piston	A - 1st Design	M - Multipoise V - Vertical only/ convertible H - Ded. Horizontal only	C - Cased U - Uncased	A - 1st Design	N/A

**Model number ID's are for reference only. Available SKU's are listed on the standard features/available SKU page of model spec sheets.

[ ] Designates Metric Conversions

90%+ AFUE Gas Furnaces (For Reference)**

R	96	V	A	70	2	3	17	M	S	A
Brand	**Series**	**Motor**	**Major Rev**	**Input BTU/HR**	**Stages**	**Air Flow**	**Cabinet Width**	**Configuration**	**Nox**	**Minor Rev**
Rheem	90 - 90 AFUE 92 - 92 AFUE 95 - 95 AFUE 96 - 96 AFUE 97 - 97 AFUE	V - Variable speed T - Constant Torque (X-13) P - PSC	A - 1st Design	040 - 42,000 [12.31 kW] 060 - 56,000 [16.41 kW] 070 - 70,000 [20.51 kW] 085 - 84,000 [24.62 kW] 100 - 98,000 [28.72 kW] 115 - 112,000 [32.82 kW]	1 - Single-stage 2 - Two-stage M - Modulating	3 - up to 3 ton 5 - 3 1/2 up to 5 ton	14 - 14" 17 - 17.5" 21 - 21" 24 - 24.5"	M - Multi	X - Low Nox S - Standard	A - 1st Design

80% AFUE Gas Furnaces (For Reference)**

R	80	2	V	A	075	3	17	M	S	A
Brand	**Series**	**Stages**	**Motor**	**Major Rev**	**Input BTU/HR**	**Air Flow**	**Cabinet Width**	**Configuration**	**Nox**	**Minor Rev**
Rheem	80 - 80+ AFUE	1 - Single-stage 2 - Two-stage	V - Variable speed T - Constant Torque (X-13) P - PSC premium S - PSC standard	A - 1st Design	050 - 50,000 [15 kW] 075 - 75,000 [22 kW] 100 - 100,000 [29 kW] 125 - 125,000 [37 kW] 150 - 150,000 [44 kW]	3 - up to 3 ton 4 - 2 1/2 to 4 ton 5 - 3 1/2 up to 5 ton	14 - 14" 17 - 17.5" 21 - 21" 24 - 24.5"	M - Multi D - Down Z - Down & zero clearance down flow	X - Low Nox S - Standard	A - 1st Design

Air Handlers (For Reference)**

R	H	1	T	36	17	S	T	A	N	A	A	000	*
Brand	**Product Category**	**Stages of Airflow**	**Motor Type**	**Capacity BTU/HR**	**Width**	**Coil Size**	**Metering Device**	**Major Series***	**Controls**	**Voltage**	**Minor Series****	**Factory Heat Cap**	**Option Code**
Rheem	H - Air Handler	1 - Single-Stage 2 - Two-Stage M - Modulating	V - Variable Speed T - Constant Torque P - PSC	24 - 24,000 [7.03 kW] 36 - 36,000 [10.55 kW] 48 - 48,000 [14.07 kW] 60 - 60,000 [17.58 kW]	14 - 14" 17 - 17.5" 21 - 21" 24 - 24.5"	S - Standard Eff. M - Mid Eff. H - High Eff.	T - TEV E - EEV P - Piston	A - 1st Design	C -Communicating N -Non-comm	A - 1ph, 115/60 J - 1ph, 208-240/60 D - 3ph, 480/60	A - 1st Design	00 - no factory heat with option code	*TBD

**Model number ID's are for reference only. Available SKU's are listed on the standard features/available SKU page of model spec sheets.

[ ] Designates Metric Conversions

Physical Data

PHYSICAL DATA							
Model No.	**RA1418**	**RA1424**	**RA1430**	**RA1436**	**RA1442**	**RA1448**	**RA1460**
Nominal Tonnage	1.5	2.0	2.5	3.0	3.5	4.0	5.0
Valve Connections							
Liquid Line O.D. – in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Suction Line O.D. – in.	3/4	3/4	3/4	3/4	7/8	7/8	7/8
Refrigerant (R410A) furnished oz.[1]	68	80	87	106	134	129	201
Compressor Type	Scroll						
Outdoor Coil							
Net face area – Outer Coil	9.1	11.1	12.1	14.8	17.3	18.9	32.3
Net face area – Inner Coil	—	—	—	—	—	—	—
Tube diameter – in.	3/8	3/8	3/8	3/8	3/8	3/8	3/8
Number of rows	1	1	1	1	1	1	1
Fins per inch	22	22	22	22	22	22	22
Outdoor Fan							
Diameter – in.	20	20	20	24	24	26	26
Number of blades	2	2	2	3	3	2	3
Motor hp	1/10	1/8	1/8	1/6	1/5	1/5	1/3
CFM	2225	2295	2605	3105	4105	4264	4775
RPM	1075	1121	1075	850	833	820	795
watts	130	138	142	173	236	236	239
Shipping weight – lbs.	143	148	158	178	207	232	247
Operating weight – lbs.	122	141	151	171	200	221	240

Electrical Data

Line Voltage Data (Volts-Phase-Hz)	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**	**208/230-1-60**
Maximum overcurrent protection (amps)[2]	20	25	25	30	35	45	50
Minimum circuit ampacity[3]	13	15	17	19	23	27	34
Compressor							
Rated load amps	9.7	10.9	12.8	14.1	16.7	19.9	23.7
Locked rotor amps	48	62.9	64	77	109	109	152.5
Condenser Fan Motor							
Full load amps	0.6	0.8	0.8	0.8	1.2	1.2	3.5
Locked rotor amps	1.1	1.5	1.4	1.5	2.0	2.3	-
Line Voltage Data (Volts-Phase-Hz)	—	—	—	**208/230-3-60**	**208/230-3-61**	**208/230-3-62**	**208/230-3-63**
Maximum overcurrent protection (amps)[2]	—	—	—	20	25	30	35
Minimum circuit ampacity[3]	—	—	—	13	16	18	24
Compressor							
Rated load amps	—	—	—	9	11.2	13.1	15.9
Locked rotor amps	—	—	—	71	84	83.1	110
Condenser Fan Motor							
Full load amps	—	—	—	0.8	1.2	1.2	3.5
Locked rotor amps	—	—	—	1.5	3.0	2.3	-
Line Voltage Data (Volts-Phase-Hz)	—	—	—	**480-3-60**	**480-3-60 RA1442AD**	**480-3-60**	**480-3-60 RA1460AD**
Maximum overcurrent protection (amps)[2]	—	—	—	15	—	15	15
[3]Minimum circuit ampacity	—	—	—	8	—	9	10
Compressor							
Rated load amps	—	—	—	5.6	—	6.1	7.1
Locked rotor amps	—	—	—	38	—	41	52
Condenser Fan Motor							
Full load amps	—	—	—	0.5	—	0.6	0.5
Locked rotor amps	—	—	—	1.1	—	1.6	1.4

[1]Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the installation instructions for information about set length and additional refrigerant charge required.
[2]HACR type circuit breaker of fuse.
[3]Refer to National Electrical Code manual to determine wire, fuse and disconnect size requirements.

Accessories

Model No.		RA1418	RA1424	RA1430	RA1436	RA1442	RA1448	RA1460
Compressor crankcase heater*		44-17402-44	44-17402-44	44-17402-44	44-17402-44	44-17402-45	44-17402-45	44-17402-45
Low ambient control		RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08	RXAD-A08
Compressor sound cover		68-23427-26	68-23427-26	68-23427-26	68-23427-26	68-23427-25	68-23427-25	68-23427-25
Compressor hard start kit		SK-A1	SK-A1	SK-A1	SK-A1	SK-A1	SK-A1	SK-A1
Compressor time delay		RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01	RXMD-B01
Low pressure control		RXAC-A07	RXAC-A07	RXAC-A07	RXAC-A07	RXAC-A07	RXAC-A07	RXAC-A07
High pressure control		RXAB-A07	RXAB-A07	RXAB-A07	RXAB-A07	RXAB-A07	RXAB-A07	RXAB-A07
Liquid Line Solenoid (24 VAC, 50/60 Hz)	Solenoid Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD3T3TVLC	200RD3T3TVLC
	Solenoid Coil	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V	61-AMG24V
Liquid Line Solenoid (120/240 VAC, 50/60 Hz)	Solenoid Valve	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD2T3TVLC	200RD3T3TVLC	200RD3T3TVLC
	Solenoid Coil	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V	61-AMG120/240V
Classic Top Cap w/Label		91-101123-21	91-101123-21	91-101123-21	91-101123-21	91-101123-21	91-101123-21	91-101123-21

*Crankcase Heater recommended with Low Ambient Kit.

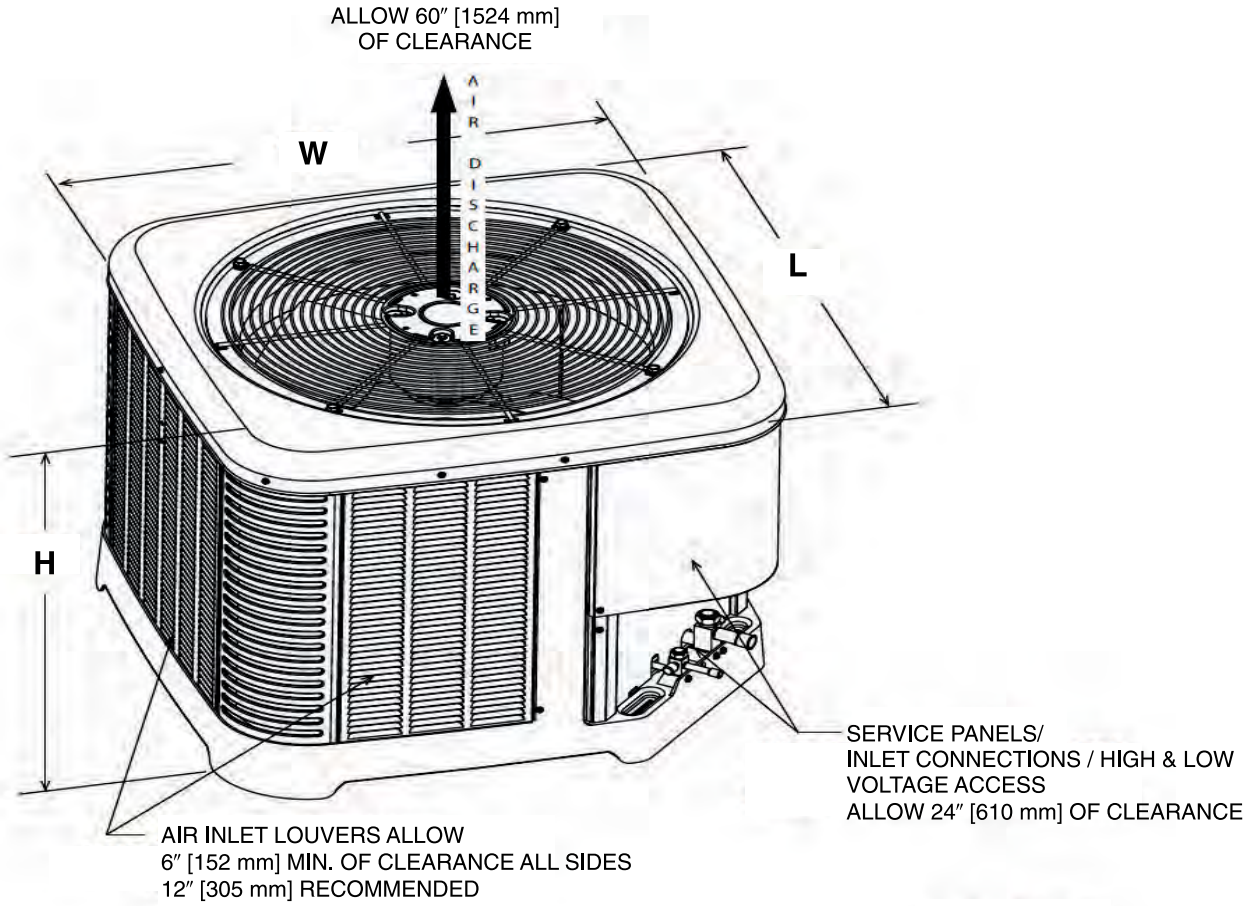
Weighted Sound Power Level (dBA)

A-WEIGHTED SOUND POWER LEVEL (dBA)								
Unit Size - Voltage, Series	Standard Rating (dBA)	TYPICAL OCTAVE BAND SPECTRUM (dBA without tone adjustment)						
		125	250	500	1000	2000	4000	8000
RA1418	76.0	51.4	59.6	65.2	65.9	64.3	58.5	53.7
RA1424	75.0	50.0	59.5	63.2	64.4	61.4	56.8	52.6
RA1430	74.0	48.8	57.5	63.5	64	61.9	56.1	51
RA1436	76.0	52.2	61.3	65.4	65.3	62.4	57.3	53.1
RA1442	73.0	51.5	54.7	63.5	63.3	59.4	54.9	48.4
RA1448	76.0	52.3	59.1	66.7	65.7	62.4	59.3	55.9
RA1460	74.6	50.1	55.1	65.6	64.8	63.2	57.4	56.4

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI)

Unit Dimensions

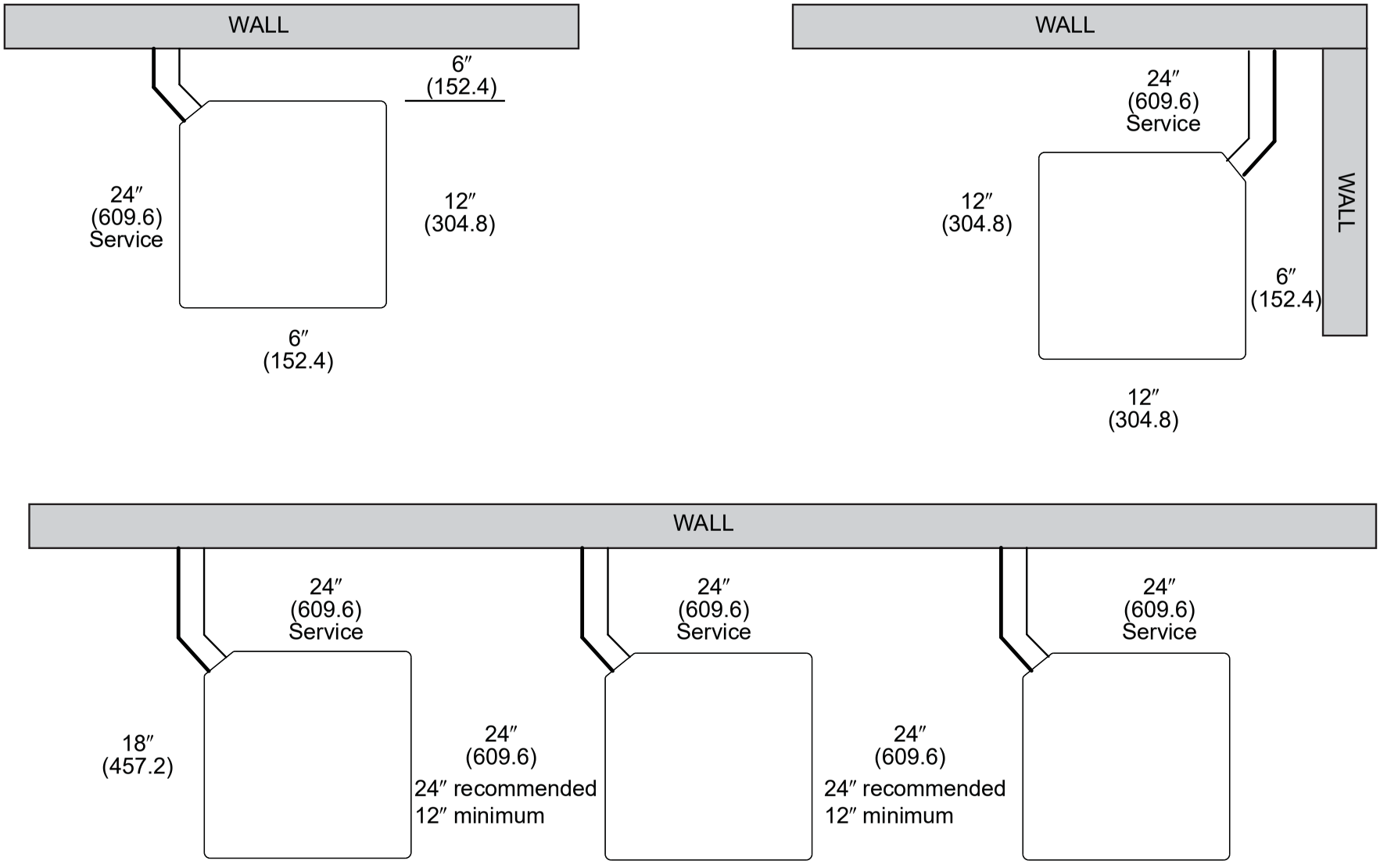
MODEL NO.	OPERATING						SHIPPING					
	H (Height)		L (Length)		W (Width)		H (Height)		L (Length)		W (Width)	
	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm
RA1418	25	635	29.75	755	29.75	755	26.75	679	32.38	822	32.38	822
RA1424	25	635	29.75	755	29.75	755	26.75	679	32.38	822	32.38	822
RA1430	27	685	29.75	755	29.75	755	28.75	730	32.38	822	32.38	822
RA1436	27	685	33.75	857	33.75	857	28.75	730	36.38	924	36.38	924
RA1442	35	889	33.75	857	33.75	857	36.75	933	36.38	924	36.38	924
RA1448	31	787	35.75	908	35.75	908	32.75	832	38.38	975	38.38	975
RA1460	51	1295	35.75	908	35.75	908	51.38	1305	38.38	975	38.38	975



[ ] Designates Metric Conversions

ST-A1226-02-00

CLEARANCES



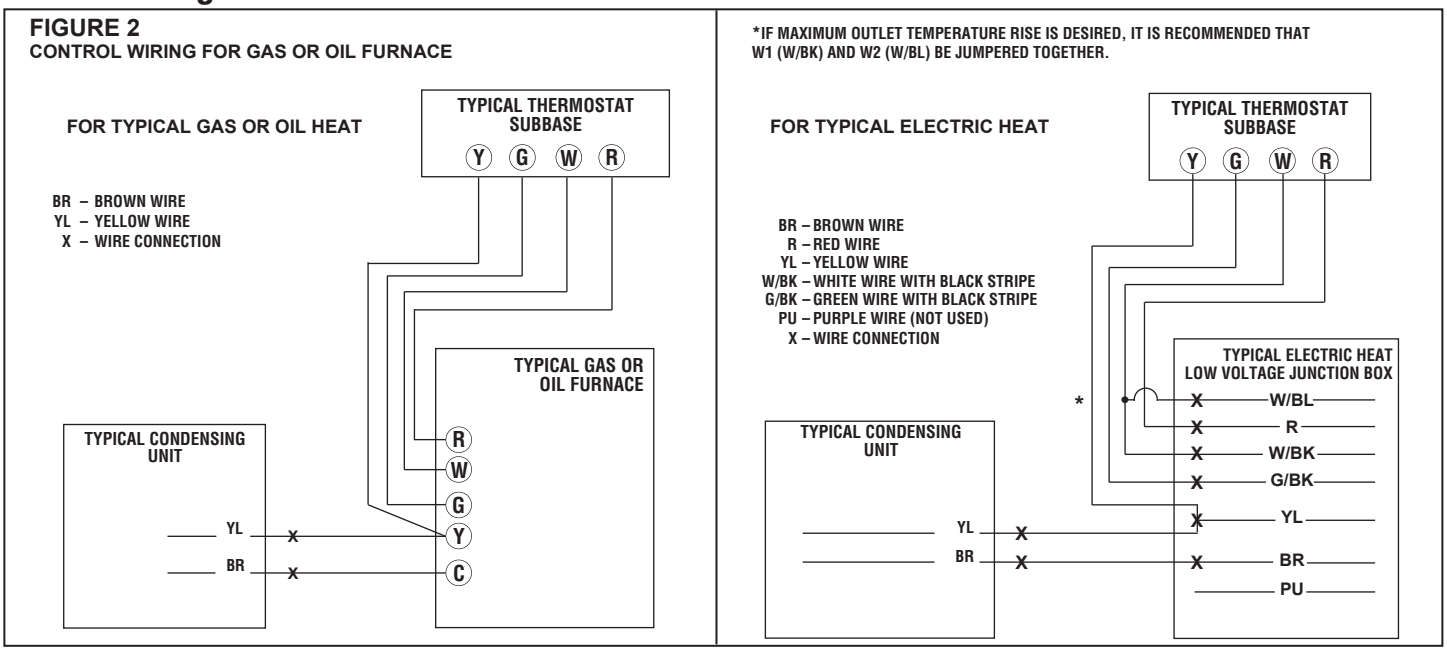
NOTE: NUMBERS IN () = mm

IMPORTANT: When installing multiple units in an alcove, roof well or partially enclosed area, ensure there is adequate ventillation to prevent re-circulation of discharge air.

ST-A1225-01-00

Control Wiring

FIGURE 2
CONTROL WIRING FOR GAS OR OIL FURNACE



Application Guidelines

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01 -in. wc.
2. Minimum outdoor operation air temperature for cooling mode without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature is 125°F (51.7°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. Use only copper wire for electric connections at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
6. Do not apply capillary tube indoor coils to these units.
7. Factory – supplied filter drier must be installed.

Refrigerant Line Size Information

13 - 16 SEER Single-Stage Air-Conditioners																
Unit Size	Allowable Liquid Line Size	Allowable Suction Line Size	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Feet)				Equivalent Length (Feet)									
							< 25	26-50	51-75	76-100	101-125	126-150	151-175	176-200	201-225	226-250
			(-)A13	(-)A14 A/B	(-)A14 W	(-)A16	Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier									
1.5 Ton **SEE NOTE 3	1/4"	5/8"	N/R	N/R	N/R	N/R	25 / 1.00	50 / 0.99	62 / 0.98	43 / 0.98	24 / 0.97	5 / 0.97	N/R	N/R	N/R	N/R
	5/16"	5/8"	N/R	223	198	188	25 / 1.00	50 / 0.99	75 / 0.98	98 / 0.98	93 / 0.97	88 / 0.97	83 / 0.96	78 / 0.96	73 / 0.95	68 / 0.94
	3/8"	5/8"	178	148	132	125	25 / 1.00	50 / 0.99	75 / 0.98	100 / 0.98	100 / 0.97	100 / 0.97	100 / 0.96	100 / 0.96	100 / 0.95	100 / 0.94
	1/4"	3/4"**	N/R	N/R	N/R	N/R	25 / 1.00	50 / 1.00	62 / 0.99	43 / 0.99	24 / 0.99	5 / 0.99	N/R	N/R	N/R	N/R
	5/16"	3/4"**	N/R	223	198	188	25 / 1.00	50 / 1.00	75 / 0.99	98 / 0.99	93 / 0.99	88 / 0.99	83 / 0.99	78 / 0.98	73 / 0.98	68 / 0.98
	3/8"	3/4"**	178	148	132	125	25 / 1.00	50 / 1.00	75 / 1.00	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.98	100 / 0.98	100 / 0.98
2 Ton	1/4"	5/8"	N/R	N/R	N/R	N/R	25 / 0.99	50 / 0.98	21 / 0.97	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	5/16"	5/8"	243	193	175	175	25 / 0.99	50 / 0.98	75 / 0.97	87 / 0.96	77 / 0.95	69 / 0.94	61 / 0.93	53 / 0.92	45 / 0.91	37 / 0.90
	3/8"	5/8"	162	128	117	117	25 / 0.99	50 / 0.98	75 / 0.97	100 / 0.96	100 / 0.95	100 / 0.94	98 / 0.93	95 / 0.92	92 / 0.91	89 / 0.90
	1/4"	3/4"	N/R	N/R	N/R	N/R	25 /1.00	50 / 1.00	21 / 0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	5/16"	3/4"	243	193	175	175	25 /1.00	50 / 1.00	75 / 0.99	87 / 0.99	77 / 0.98	69 / 0.98	61 / 0.98	53 / 0.97	45 / 0.97	37 / 0.96
	3/8"	3/4"	162	128	117	117	25 / 1.00	50 / 1.00	75 / 0.99	100 / 0.99	100 / 0.98	100 / 0.98	98 / 0.98	95 / 0.97	93 / 0.97	90 / 0.96
2.5 Ton	5/16"	5/8"	N/R	N/R	110	110	25 / 0.99	50 / 0.98	75 / 0.96	70 / 0.94	59 / 0.93	48 / 0.91	36 / 0.90	N/R	N/R	N/R
	3/8"	5/8"	142	117	73	73	25 / 0.99	50 / 0.98	75 / 0.96	100 / 0.94	98 / 0.93	94 / 0.91	90 / 0.90	N/R	N/R	N/R
	5/16"	3/4"	213	175	110	110	25 / 1.00	50 / 0.99	75 / 0.99	70 / 0.98	59 / 0.98	48 / 0.97	36 / 0.96	25 / 0.96	13 / 0.95	N/R
	3/8"	3/4"	142	117	73	73	25 / 1.00	50 / 0.99	75 / 0.99	100 / 0.98	98 / 0.98	94 / 0.97	90 / 0.96	86 / 0.96	82 / 0.95	78 / 0.95
3 Ton	5/16"	5/8"	N/R	N/R	N/R	N/R	25 / 0.99	50 / 0.97	66 / 0.94	49 / 0.92	32 / 0.90	N/R	N/R	N/R	N/R	N/R
	3/8"	5/8"	108	85	90	82	25 / 0.99	50 / 0.97	75 / 0.94	95 / 0.92	89 / 0.90	N/R	N/R	N/R	N/R	N/R
	5/16"	3/4"	N/R	128	135	123	25 / 1.00	50 / 0.99	66 / 0.98	49 / 0.98	32 / 0.97	15 / 0.96	N/R	N/R	N/R	N/R
	3/8"	3/4"	108	85	90	82	25 / 1.00	50 / 0.99	75 / 0.98	95 / 0.98	89 / 0.97	84 / 0.96	78 / 0.95	72 / 0.94	67 / 0.93	61 / 0.93
	1/2"	3/4"	54	43	45	41	25 / 1.00	50 / 0.99	75 / 0.98	100 / 0.98	100 / 0.97	100 / 0.96	100 / 0.95	100 / 0.94	100 / 0.93	100 / 0.93
	5/16"	7/8"	N/R	128	135	123	25 / 1.00	50 / 1.00	66 / 1.00	49 / 0.99	32 / 0.99	15 / 0.99	N/R	N/R	N/R	N/R
	3/8"	7/8"	108	85	90	82	25 / 1.00	50 / 1.00	75 / 1.00	95 / 0.99	89 / 0.99	84 / 0.99	78 / 0.98	72 / 0.98	67 / 0.98	61 / 0.97
	1/2"	7/8"	54	43	45	41	25 / 1.00	50 / 1.00	75 / 1.00	100 / 0.99	100 / 0.99	100 / 0.99	100 / 0.98	100 / 0.98	100 / 0.98	100 / 0.97
3.5 Ton	3/8"	3/4"	150	102	75	75	25 / 0.99	50 / 0.98	75 / 0.97	88 / 0.96	80 / 0.95	72 / 0.94	65 / 0.92	57 / 0.91	49 / 0.90	N/R
	1/2"	3/4"	75	51	38	38	25 / 0.99	50 / 0.98	75 / 0.97	100 / 0.96	100 / 0.95	100 / 0.94	100 / 0.92	100 / 0.91	100 / 0.90	N/R
	3/8"	7/8"	150	102	75	75	25 / 1.00	50 / 1.00	75 / 0.99	88 / 0.99	80 / 0.99	72 / 0.98	65 / 0.97	57 / 0.97	49 / 0.96	42 / 0.96
	1/2"	7/8"	75	51	38	38	25 / 1.00	50 / 1.00	75 / 0.99	100 / 0.99	100 / 0.99	100 / 0.98	100 / 0.97	100 / 0.97	100 / 0.96	100 / 0.96

NOTES:
1. Do not exceed 200 ft linear line length.
2. *Do not exceed 100 ft vertical separation if outdoor unit is above indoor unit.
3. **3/4" suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
4. Always use the smallest liquid line allowable to minimize refrigerant charge.
5. Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
6. Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

NOTE: Values based on 105°F liquid temperature and 45°F evaporator temperature in cooling mode depending on size

Refrigerant Line Size Information (con't.)

13 - 16 SEER Single-Stage Air-Conditioners																
Unit Size	Allowable Liquid Line Size	Allowable Suction Line Size	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Feet)				Equivalent Length (Feet)									
							< 25	26-50	51-75	76-100	101-125	126-150	151-175	176-200	201-225	226-250
			(-)A13	(-)A14 A/B	(-)A14 W	(-)A16	Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier									
4 Ton	3/8"	3/4"	148	110	N/R	35	25 / 0.99	50 / 0.98	75 / 0.96	77 / 0.95	67 / 0.93	57 / 0.92	46 / 0.91	N/R	N/R	N/R
	1/2"	3/4"	74	55	N/R	18	25 / 0.99	50 / 0.98	75 / 0.96	100 / 0.95	100 / 0.93	100 / 0.92	100 / 0.91	N/R	N/R	N/R
	3/8"	7/8"	148	110	N/R	35	25 / 1.00	50 / 0.99	75 / 0.99	77 / 0.98	67 / 0.97	57 / 0.97	46 / 0.96	36 / 0.96	26 / 0.95	15 / 0.95
	1/2"	7/8"	74	55	N/R	18	25 / 1.00	50 / 0.99	75 / 0.99	100 / 0.98	100 / 0.97	100 / 0.97	100 / 0.96	100 / 0.96	99 / 0.95	97 / 0.95
5 Ton	3/8"	3/4"	78	0	N/R	0	25 / 0.99	50 / 0.97	75 / 0.94	61 / 0.92	46 / 0.90	N/R	N/R	N/R	N/R	N/R
	1/2"	3/4"	39	0	N/R	0	25 / 0.99	50 / 0.97	75 / 0.94	100 / 0.92	100 / 0.90	N/R	N/R	N/R	N/R	N/R
	3/8"	7/8"	78	0	N/R	0	25 / 1.00	50 / 0.99	75 / 0.98	61 / 0.97	46 / 0.96	32 / 0.95	18 / 0.94	N/R	N/R	N/R
	1/2"	7/8"	39	0	N/R	0	25 / 1.00	50 / 0.99	75 / 0.98	100 / 0.97	100 /0.96	100 / 0.95	97 / 0.94	95 / 0.94	92 / 0.93	89 / 0.92
	3/8"	1-1/8"	78	0	N/R	0	25 / 1.01	50 / 1.01	75 / 1.00	61 / 1.00	46 / 0.99	32 / 0.99	18 / 0.99	N/R	N/R	N/R
	1/2"	1-1/8"	39	0	N/R	0	25 / 1.01	50 / 1.01	75 / 1.00	100 /1.00	100 / 0.99	100 / 0.99	97 / 0.99	95 / 0.99	92 / 0.99	89 / 0.98

NOTES:
1. Do not exceed 200 ft linear line length.
2. *Do not exceed 100 ft vertical separation if outdoor unit is above indoor unit.
3. **3/4" suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
4. Always use the smallest liquid line allowable to minimize refrigerant charge.
5. Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
6. Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

NOTE: Values based on 105°F liquid temperature and 45°F evaporator temperature in cooling mode depending on size

Refrigerant Line Size Information (con't.)

13 - 16 SEER Single-Stage Air-Conditioners																
Unit Size	Allowable Liquid Line Size mm [in.]	Allowable Suction Line Size mm [in.]	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Feet)				Equivalent Length (Meters)									
							< 8	8-15	16-23	24-30	31-38	39-46	47-53	54-61	62-69	70-76
			(-)A13	(-)A14 A/B	(-)A14 W	(-)A16	Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier									
5.3 KW [1.5 Ton] **SEE NOTE 3	6.35 [1/4]	15.88 [5/8]	N/R	N/R	N/R	N/R	8 / 1.00	15 / 0.99	19 / 0.98	13 / 0.98	7 / 0.97	2 / 0.97	N/R	N/R	N/R	N/R
	7.94 [5/16]	15.88 [5/8]	N/R	68	60	57	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.98	28 / 0.97	27 / 0.97	25 / 0.96	24 / 0.96	22 / 0.95	21 / 0.94
	9.53 [3/8]	15.88 [5/8]	54	45	40	38	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.98	30 / 0.97	30 / 0.97	30 / 0.96	30 / 0.96	30 / 0.95	30 / 0.94
	6.35 [1/4]	19.05 [3/4]**	N/R	N/R	N/R	N/R	8 / 1.00	15 / 1.00	19 / 0.99	13 / 0.99	7 / 0.99	2 / 0.99	N/R	N/R	N/R	N/R
	7.94 [5/16]	19.05 [3/4]**	N/R	68	60	57	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	28 / 0.99	27 / 0.99	25 / 0.99	24 / 0.98	22 / 0.98	21 / 0.98
	9.53 [3/8]	19.05 [3/4]**	54	45	40	38	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	30 / 0.98
7.0 KW [2 Ton]	6.35 [1/4]	15.88 [5/8]	N/R	N/R	N/R	N/R	8 / 0.99	15 / 0.98	6 / 0.97	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	7.94 [5/16]	15.88 [5/8]	74	59	53	53	8 / 0.99	15 / 0.98	23 / 0.97	27 / 0.96	23 / 0.95	21 / 0.94	19 / 0.93	16 / 0.92	14 / 0.91	11 / 0.90
	9.53 [3/8]	15.88 [5/8]	49	39	36	36	8 / 0.99	15 / 0.98	23 / 0.97	30 / 0.96	30 / 0.95	30 / 0.94	30 / 0.93	29 / 0.92	28 / 0.91	27 / 0.90
	6.35 [1/4]	19.05 [3/4]	N/R	N/R	N/R	N/R	8 / 1.00	15 / 1.00	6 / 0.99	N/R	N/R	N/R	N/R	N/R	N/R	N/R
	7.94 [5/16]	19.05 [3/4]	74	59	53	53	8 / 1.00	15 / 1.00	23 / 0.99	27 / 0.99	23 / 0.98	21 / 0.98	19 / 0.98	16 / 0.97	14 / 0.97	11 / 0.96
	9.53 [3/8]	19.05 [3/4]	49	39	36	36	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	30 / 0.98	29 / 0.97	28 / 0.97	27 / 0.96
8.8 KW [2.5 Ton]	7.94 [5/16]	15.88 [5/8]	N/R	N/R	34	34	8 / 0.99	15 / 0.98	23 / 0.96	21 / 0.94	18 / 0.93	15 / 0.91	11 / 0.90	N/R	N/R	N/R
	9.53 [3/8]	15.88 [5/8]	43	36	22	22	8 / 0.99	15 / 0.98	23 / 0.96	30 / 0.94	30 / 0.93	29 / 0.91	27 / 0.90	N/R	N/R	N/R
	7.94 [5/16]	19.05 [3/4]	65	53	34	34	8 / 1.00	15 / 0.99	23 / 0.99	21 / 0.98	18 / 0.98	15 / 0.97	11 / 0.96	8 / 0.96	4 / 0.95	N/R
	9.53 [3/8]	19.05 [3/4]	43	36	22	22	8 / 1.00	15 / 0.99	23 / 0.99	30 / 0.98	30 / 0.98	29 / 0.97	27 / 0.96	26 / 0.96	25 / 0.95	24 / 0.95
10.6 KW [3 Ton]	7.94 [5/16]	15.88 [5/8]	N/R	N/R	N/R	N/R	8 / 0.99	15 / 0.97	20 / 0.94	15 / 0.92	10 / 0.90	N/R	N/R	N/R	N/R	N/R
	9.53 [3/8]	15.88 [5/8]	33	26	27	25	8 / 0.99	15 / 0.97	23 / 0.94	29 / 0.92	27 / 0.90	N/R	N/R	N/R	N/R	N/R
	7.94 [5/16]	19.05 [3/4]	N/R	39	41	37	8 / 1.00	15 / 0.99	20 / 0.98	15 / 0.98	10 / 0.97	5 / 0.96	N/R	N/R	N/R	N/R
	9.53 [3/8]	19.05 [3/4]	33	26	27	25	8 / 1.00	15 / 0.99	23 / 0.98	29 / 0.98	27 / 0.97	26 / 0.96	24 / 0.95	22 / 0.94	20 / 0.93	19 / 0.93
	12.70 [1/2]	19.05 [3/4]	17	13	14	12	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.98	30 / 0.97	30 / 0.96	30 / 0.95	30 / 0.94	30 / 0.93	30 / 0.93
	7.94 [5/16]	22.23 [7/8]	N/R	39	41	37	8 / 1.00	15 / 1.00	20 / 1.00	15 / 0.99	10 / 0.99	5 / 0.99	N/R	N/R	N/R	N/R
	9.53 [3/8]	22.23 [7/8]	33	26	27	25	8 / 1.00	15 / 1.00	23 / 1.00	29 / 0.99	27 / 0.99	26 / 0.99	24 / 0.98	22 / 0.98	20 / 0.98	19 / 0.97
	12.70 [1/2]	22.23 [7/8]	17	13	14	12	8 / 1.00	15 / 1.00	23 / 1.00	30 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.98	30 / 0.98	30 / 0.97
12.3 KW [3.5 Ton]	9.53 [3/8]	19.05 [3/4]	46	31	23	23	8 / 0.99	15 / 0.98	23 / 0.97	27 / 0.96	24 / 0.95	22 / 0.94	20 / 0.92	17 / 0.91	15 / 0.90	N/R
	12.70 [1/2]	19.05 [3/4]	23	15	11	11	8 / 0.99	15 / 0.98	23 / 0.97	30 / 0.96	30 / 0.95	30 / 0.94	30 / 0.92	30 / 0.91	30 / 0.90	N/R
	9.53 [3/8]	22.23 [7/8]	46	31	23	23	8 / 1.00	15 / 1.00	23 / 0.99	27 / 0.99	24 / 0.99	22 / 0.98	20 / 0.97	17 / 0.97	15 / 0.96	13 / 0.96
	12.70 [1/2]	22.23 [7/8]	23	15	11	11	8 / 1.00	15 / 1.00	23 / 0.99	30 / 0.99	30 / 0.99	30 / 0.98	30 / 0.97	30 / 0.97	30 / 0.96	30 / 0.96

NOTES:
1. Do not exceed 61 meters linear line length.
2. *Do not exceed 30 meters vertical separation if outdoor unit is above indoor unit.
3. **19.05 mm [3/4 in.] suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
4. Always use the smallest liquid line allowable to minimize refrigerant charge.
5. Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
6. Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

[ ] Designates Metric Conversions

Refrigerant Line Size Information (con't.)

13 - 16 SEER Single-Stage Air-Conditioners																
Unit Size	Allowable Liquid Line Size	Allowable Suction Line Size	Apply Long Line Guidelines if Linear Line Length Exceeds Those Shown Below (Feet)				Equivalent Length (Meters)									
							< 8	8-15	16-23	24-30	31-38	39-46	47-53	54-61	62-69	70-76
			(-)A13	(-)A14 A/B	(-)A14 W	(-)A16	Maximum Vertical Rise (Outdoor Unit Below Indoor Unit) * / Capacity Multiplier									
14.1 KW [4 Ton]	9.53 [3/8]	19.05 [3/4]	45	34	N/R	11	8 / 0.99	15 / 0.98	23 / 0.96	24 / 0.95	20 / 0.93	17 / 0.92	14 / 0.91	NR	NR	NR
	12.7 [1/2]	19.05 [3/4]	23	17	N/R	5	8 / 0.99	15 / 0.98	23 / 0.96	30 / 0.95	30 / 0.93	30 / 0.92	30 / 0.91	NR	NR	NR
	9.53 [3/8]	22.23 [7/8]	45	34	N/R	11	8 / 1.00	15 / 0.99	23 / 0.99	24 / 0.98	20 / 0.97	17 / 0.97	14 / 0.96	11 / 0.96	8 / 0.95	5 / 0.95
	12.7 [1/2]	22.23 [7/8]	23	17	N/R	5	8 / 1.00	15 / 0.99	23 / 0.99	30 / 0.98	30 / 0.97	30 / 0.97	30 / 0.96	30 / 0.96	30 / 0.95	30 / 0.95
17.6 KW [5 Ton]	9.53 [3/8]	19.05 [3/4]	24	17	N/R	0	8 / 0.99	15 / 0.97	23 / 0.94	19 / 0.92	14 / 0.90	NR	NR	NR	NR	NR
	12.7 [1/2]	19.05 [3/4]	12	8	N/R	0	8 / 0.99	15 / 0.97	23 / 0.94	30 / 0.92	30 / 0.90	NR	NR	NR	NR	NR
	9.53 [3/8]	22.23 [7/8]	24	17	N/R	0	8 / 1.00	15 / 0.99	23 / 0.98	19 / 0.97	14 / 0.96	10 / 0.95	5 / 0.94	NR	NR	NR
	12.7 [1/2]	22.23 [7/8]	12	8	N/R	0	8 / 1.00	15 / 0.99	23 / 0.98	30 / 0.97	30 /0.96	30 / 0.95	30 / 0.94	29 / 0.94	28 / 0.93	27 / 0.92
	9.53 [3/8]	28.58 [1-1/8]	24	17	N/R	0	8 / 1.01	15 / 1.01	23 / 1.00	19 / 1.00	14 / 0.99	10 / 0.99	5 / 0.99	NR	NR	NR
	12.7 [1/2]	28.58 [1-1/8]	12	8	N/R	0	8 / 1.01	15 / 1.01	23 / 1.00	30 / 1.00	30 / 0.99	30 / 0.99	30 / 0.99	29 / 0.99	28 / 0.99	27 / 0.98

NOTES:
1. Do not exceed 61 meters linear line length.
2. *Do not exceed 30 meters vertical separation if outdoor unit is above indoor unit.
3. **19.05 mm [3/4 in.] suction line should only be used for 1.5 ton systems if outdoor unit is below or at same level as indoor to assure proper oil return.
4. Always use the smallest liquid line allowable to minimize refrigerant charge.
5. Applications shaded in light gray indicate capacity multipliers between 0.90 and 0.96 which are not recommended, but are allowed.
6. Applications shaded in dark gray are not recommended due to excessive liquid or suction pressure drop.

[ ] Designates Metric Conversions

Performance Data @ AHRI Standard Conditions – Cooling

Tested Combination							
Outdoor Unit	Indoor Coil	Total Capacity BTU/H [kW]	Net Sensible BTU/H [kW]	Net Latent BTU/H [kW]	SEER	EER	Indoor CFM [L/s]
RA1418AJ1	RCF2417STA+RXMD-C04	17800 [5.2]	12100 [3.5]	5700 [1.7]	14.00	11.50	600 [283.2]
RA1424BJ1	RCF2417STA+RXMD-C04	23200 [6.8]	17500 [5.2]	5700 [1.7]	14.00	11.50	800 [376.0]
RA1430AJ1	RCF3617STA+RXMD-C04	28800 [8.4]	19500 [5.7]	9300 [2.7]	14.00	11.50	1000 [471.9]
RA1436AJ1	RCF3617STA+RXMD-C04	34200 [10.0]	23200 [6.8]	11000 [3.2]	14.00	11.50	1050 [495.5]
RA1436AC1	RCF3617STA+RXMD-C04	34200 [10.0]	23200 [6.8]	11000 [3.2]	14.00	11.50	1050 [495.5]
RA1436AD1	RCF3617STA+RXMD-C04	34200 [10.0]	23200 [6.8]	11000 [3.2]	14.00	11.50	1050 [495.5]
RA1442CJ1	RCF4821STA+RXMD-C04	39500 [11.6]	28900 [8.5]	10600 [3.1]	14.00	11.50	1350 [634.5]
RA1442CC1	RCF4821STA+RXMD-C04	39500 [11.6]	28900 [8.5]	10600 [3.1]	14.00	11.50	1350 [634.5]
RA1448AJ1	RCF4821STA+RXMD-C04	46000 [13.5]	31200 [9.1]	14800 [4.3]	14.00	11.70	1450 [684.3]
RA1448AC1	RCF4821STA+RXMD-C04	46000 [13.5]	31200 [9.1]	14800 [4.3]	14.00	11.70	1450 [684.3]
RA1448AD1	RCF4821STA+RXMD-C04	46000 [13.5]	31200 [9.1]	14800 [4.3]	14.00	11.70	1450 [684.3]
RA1460BJ1	RCF6024STA+RXMD-C04	55500 [16.3]	38100 [11.2]	17400 [5.1]	14.00	11.70	1525 [716.8]
RA1460AD1	RCF6024STA+RXMD-C04	55500 [16.3]	38100 [11.2]	17400 [5.1]	14.00	11.70	1525 [716.8]
RA1460BC1	RCF6024STA+RXMD-C04	55500 [16.3]	38100 [11.2]	17400 [5.1]	14.00	11.70	1525 [716.8]

Note: Additional ratings and system match ups can be accessed on MyRheem.com at: https://my.rheem.com/static/private/ahriresidential.html
Additional ratings and system match ups and downloadable ratings certificates can be accessed from the AHRI website: www.ahridirectory.org

[ ] Designates Metric Conversions

GUIDE SPECIFICATIONS

General

System Description

Outdoor-mounted, air-cooled, split-system air conditioner composite base pan unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, propeller-type condenser fan, suction and legend line service valve, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a coil unit.

Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 210.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have c-UL-us approval.
- Unit cabinet will be capable of withstanding ASTM B117 1000-hr salt spray test.
- Air-cooled condenser coils will be leak tested at 150 psig and pressure tested at 550 psig.
- Unit constructed in ISO9001 approved facility.

Delivery, Storage, and Handling

- Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

Warranty (for inclusion by specifying engineer) — U.S. and Canada only.

Products

Equipment

Factory assembled, single piece, air-cooled air conditioner unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge R-410A, and special features required prior to field start-up.

Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.
- All units constructed with louver coil protection and corner post. Louver can be removed by removing one fastener per louver panel.

AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER
RA14
1-1/2 TO 5 NOMINAL TONS

Fans

- Condenser fan will be direct-drive propeller type, discharging air upward.
- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings. Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.

Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes.

Refrigeration Components

- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of R-410A refrigerant, and compressor oil.
- Unit will be equipped with filter drier for R-410A refrigerant for field installation.

Operating Characteristics

- The capacity of the unit will meet or exceed _____ Btuh at a suction temperature of _____ °F/°C. The power consumption at full load will not exceed _____ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of _____ Btuh or greater at conditions of _____ CFM entering air temperature at the evaporator at _____ °F/°C wet bulb and _____ °F/°C dry bulb, and air entering the unit at _____ °F/°C.
- The system will have a SEER of _____ Btuh/watt or greater at DOE conditions.

Electrical Requirements

- Nominal unit electrical characteristics will be _____ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Nominal unit electrical characteristics will be _____ v, three phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of _____ v to _____ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

GENERAL TERMS OF LIMITED WARRANTY*

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

***For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

Conditional Parts
(Registration Required) .....Ten (10) Years

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Rheem Heating, Cooling & Water Heating • 5600 Old Greenwood Road
Fort Smith, Arkansas 72908 • www.rheem.com

Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1
Brampton, Ontario • L6Y 0P5

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APPENDIX I

TRIP GENERATION AND VMT MEMO

CARLSBAD
CLOVIS
IRVINE
LOS ANGELES
PALM SPRINGS
POINT RICHMOND
RIVERSIDE
ROSEVILLE
SAN LUIS OBISPO

July 18, 2024

Jared Jerome
Associate Planner
Monterey Business Center
58928 Business Center Drive
Yucca Valley, California 92284

Subject: Sun Mesa Mini Storage Project Trip Generation and Vehicle Miles Traveled Memorandum (LSA Project No. 20231230)

Dear Jared:

LSA Associates, Inc. (LSA) has prepared this Trip Generation and Vehicle Miles Traveled (VMT) Analysis memorandum (Memo) for the proposed Sun Mesa Mini Storage Project (project) in the Town of Yucca Valley (Town) in San Bernardino County (County). The project consists of an approximately 94,500-square foot (4.34-acre) mini storage facility and associated parking facilities. The project site is located southeast of the intersection of Newton Lane/Sun Mesa Drive, with site access provided along Newton Lane. The project is consistent with the Town's General Plan land use and zoning designation. Figure 1 (all figures and table attached) illustrates the regional and project location. Figure 2 illustrates the conceptual site plan for the project.

The objectives of this Memo are as follows:

- To estimate the trip generation for the proposed project and determine whether a Transportation Impact Study (TIS) will be required for the project; and
- To determine whether a VMT analysis will be required for the proposed project.

TRIP GENERATION ANALYSIS

It is LSA's understanding that the Town of Yucca Valley does not have their own TIS guidelines. As such, this analysis has been prepared based on requirements included in the *San Bernardino County Transportation Impact Study Guidelines*, dated July 2019 (TIS Guidelines) for traffic analysis purposes. According to the County's TIS Guidelines, a detailed LOS study may not be required if the project is estimated to generate less than 100 peak hour trips.

The trip generation for the project was developed using rates from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition) for Land Use 151 – "Mini-Warehouse (Self-Storage)". Table A summarizes the project trip generation and shows that the proposed project is anticipated to generate 9 trips in the a.m. peak hour, 15 trips in the p.m. peak hour, and 137 daily trips.

As per the County's TIS Guidelines, a TIS may not be required for the proposed project if it generates less than 100 peak hour trips. The anticipated number of peak hour trips generated by the proposed

project is less than the 100-trip threshold. Furthermore, to determine the study area, the proposed project would need to add 50 or more peak hour trips to the arterial roadway system. Since the project does not generate 50 peak hour trips, a TIS may not be required for this project.

VEHICLE MILES TRAVELED ANALYSIS

On December 28, 2018, the California Office of Administrative Law cleared the revised California Environmental Quality Act (CEQA) Guidelines for use. Among the changes to the guidelines was the removal of vehicle delay and level of service as the sole basis of determining CEQA impacts. With the implementation of the adopted guidelines, transportation impacts are to be evaluated based on a project's effect on VMT. The County's TIS Guidelines includes significant thresholds, requirements, recommended methodologies, and procedures for VMT analysis for projects within the County.

Based on the County's TIS Guidelines Section 4.1 "Analysis Methodology", a project can be screened out from a VMT analysis if it is located within a low VMT zone.

According to the County's Guideline, the significance threshold for a project is 4 percent below the unincorporated county's baseline VMT per capita/employee. Therefore, this threshold has been used to determine whether a project is located within a low VMT zone. Additionally, given that the project is not located within unincorporated county, the low VMT zone was determined by evaluating whether the project Traffic Analysis Zone (TAZ) VMT is 4 percent below the entire County's baseline VMT profile.

As recommended in the County's TIS Guidelines, the San Bernardino County Transportation Authority (SBCTA) screening tool was used to evaluate whether the project is in a low-VMT area, using VMT per worker as the VMT metric. Based on the results obtained from the SBCTA screening tool, the baseline VMT of the proposed project's TAZ is 9.6, which is 43.19 percent below the baseline County average of 16.9 VMT/worker. As such, the project is located within a low-VMT zone using VMT per worker/employee metric. Appendix A illustrates the output of the tool. Therefore, the project could be potentially screened out from a detailed VMT analysis and is anticipated to have a less than significant VMT impact.

ACTIVE TRANSPORTATION AND PUBLIC TRANSIT ANALYSIS

According to the County's TIS Guidelines, a significant impact occurs when a project conflicts with adopted plans, policies, or programs regarding active transportation or public transit facilities, or otherwise decreases the performance or safety of such facilities.

Currently, there are no existing bicycle facilities adjacent to project site. Based on the Circulation Element of Yucca Valley General Plan (GP), adopted February 2014, a proposed Class II bicycle lanes will be added along Buena Vista Drive. These future bicycle facilities will connect south of the project site to an extensive planned bicycle network. As such, the project will not decrease the performance or safety of any existing or proposed bicycle facilities.

According to the Circulation Element, limited continuous sidewalks are provided along major routes in the Town and most roads throughout Yucca Valley do not have sidewalks. Currently, there are no paved and continuous sidewalk facilities available within the project vicinity. As such, the project will

not decrease the performance or safety of the existing pedestrian facilities near the project frontage.

Morongo Basin Transit Authority (MBTA) is the public transit agency serving the Town of Yucca Valley. MBTA currently has five fixed routes in the region. Fixed bus route 21 operates the closest to the project vicinity. However, there are no bus stops that operates within the project vicinity. It provides services with bus stops located on Arrow Boulevard and Juniper Avenue. At present, there are no proposed service changes in MBTA transit network due to implementation of the project. As such, the project will not decrease the performance or safety of any existing or proposed public transit facilities.

As summarized above, the project does not conflict with any existing or proposed bicycle, pedestrian, and public transit facilities. Therefore, it can be considered to conform to all adopted policies, plans, or programs concerning these facilities and will not have a significant impact.

If you have any questions, please do not hesitate to contact me at (951) 781-9310 or Ambarish.Mukherjee@lsa.net.

Sincerely,

LSA

Ambarish Mukherjee, AICP, PE
Principal

Attachments:

- Figure 1: Regional and Project Location
- Figure 2: Conceptual Site Plan
- Table A: Project Trip Generation
- Appendix A: VMT Screening Result

FIGURES

LSA

LEGEND

Project Location

FIGURE 1

N

0 170 340

FEET

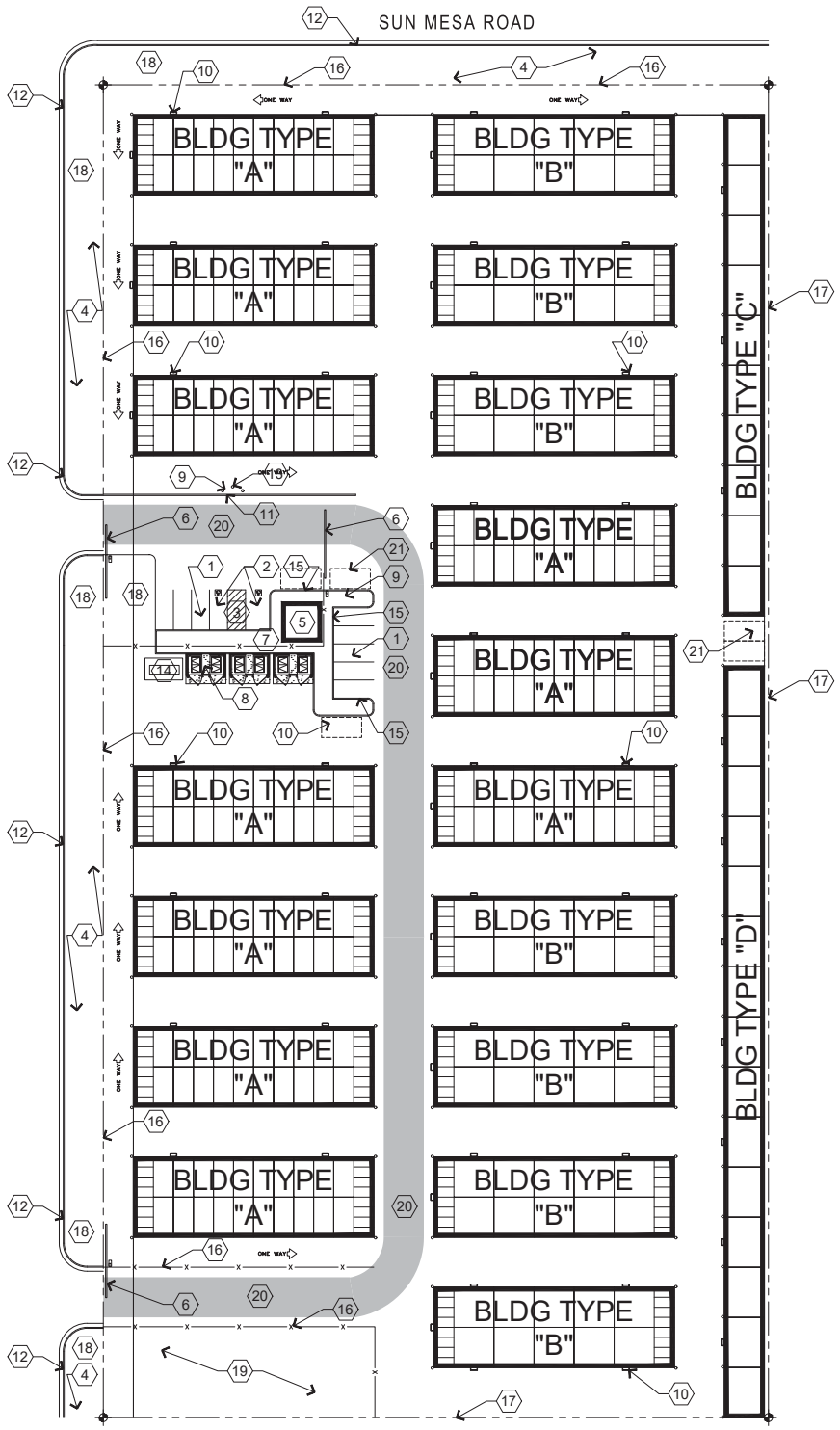
Sun Mesa Mini Storage Project

Trip Generation and Vehicle Miles Traveled Memorandum

Regional and Project Location

SOURCE: ESRI Streetmap, 2021; Google Earth, 2022.

P:\20231230 Sun Mesa Mini Storage\Traffic\Graphics\Sun Mesa\Sun Mesa.aprx (7/1/2024)



LSA

FIGURE 2

N

0 40 80

FEET

SOURCE: DRP Enterprise, August 2022.

P:\20231230 Sun Mesa Mini Storage\Traffic\Graphics\SitePlan.ai (07/01/2024)

Sun Mesa Mini Storage Project
Trip Generation and Vehicle Miles Traveled Memorandum

Conceptual Site Plan

TABLE

LSA

Table A - Project Trip Generation

Land Use	Units	A.M. Peak Hour In	A.M. Peak Hour Out	A.M. Peak Hour Total	P.M. Peak Hour In	P.M. Peak Hour Out	P.M. Peak Hour Total	Daily
Mini-Warehouse (Self-Storage)	94.5 TSF							
Trips/Unit[1]		0.05	0.04	0.09	0.07	0.08	0.15	1.45
Trip Generation		5	4	9	7	8	15	137

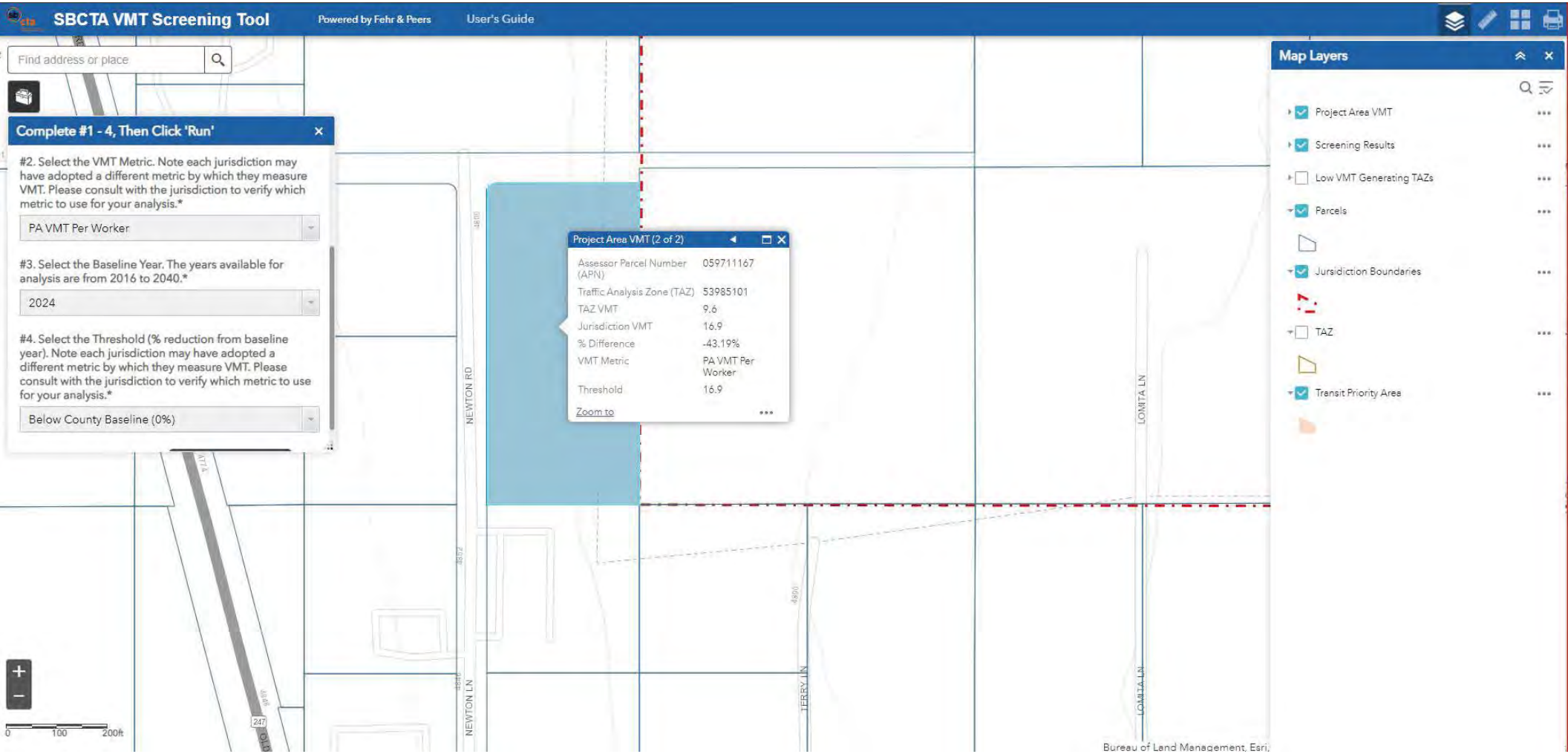
Notes:

TSF = Thousand Square Feet

[1] Rates based on Land Use 151 - "Mini-Warehouse" from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* , 11th Edition, Setting/Location - "General Urban/Suburban."

APPENDIX A

VMT SCREENING RESULT


SBCTA VMT Screening Tool
Powered by Fehr & Peers
User's Guide
Find address or place
Complete #1 - 4, Then Click 'Run'
#2. Select the VMT Metric. Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
PA VMT Per Worker
#3. Select the Baseline Year. The years available for analysis are from 2016 to 2040.*
2024
#4. Select the Threshold (% reduction from baseline year). Note each jurisdiction may have adopted a different metric by which they measure VMT. Please consult with the jurisdiction to verify which metric to use for your analysis.*
Below County Baseline (0%)
Project Area VMT (2 of 2)
Assessor Parcel Number (APN) 059711167
Traffic Analysis Zone (TAZ) 53985101
TAZ VMT 9.6
Jurisdiction VMT 16.9
% Difference -43.19%
VMT Metric PA VMT Per Worker
Threshold 16.9
Zoom to
Map Layers
Project Area VMT
Screening Results
Low VMT Generating TAZs
Parcels
Jurisdiction Boundaries
TAZ
Transit Priority Area
NEWTON RD
NEWTON LN
TERRY LN
LOMITA LN
0
100
200ft
Bureau of Land Management, Esri,

Town of Yucca Valley
Planning Commission Staff Report

To: Planning Commission

From: Jared Jerome, Senior Planner

Date: April 6, 2026

Meeting Date: April 14, 2026

Subject: Environmental Assessment, EA 03-25; Conditional Use Permit, CUP 02-25, Resolution PC 26-03, Dutch Bros Coffee, the proposed construction of a 1,025 square-foot Dutch Bros Coffee with a drive through service window and a covered walk-up service window and incidental site improvements. The approximately 1.01-acre vacant Project Site is located at 58121 Twentynine Palms Highway (APN: 0601-416-05), approximately 275' southwest of the intersection of Twentynine Palms Highway and Balsa Avenue.

Recommendation:

Environmental Assessment 03-25:

That the Planning Commission adopts the Resolution, the Mitigated Negative Declaration and Mitigation Monitoring Report for Environmental Assessment 03-25.

Conditional Use Permit 02-25:

That the Planning Commission approves CUP 02-25, the proposed construction of a 1,025 square-foot Dutch Bros Coffee with a drive through service window and a covered walk-up service window and incidental site improvements.

Prior Review:

The Commission has had no prior review of this application.

Discussion:

Applicant:

John Caglia (Dutch Bros)

PO Box 1929

Grants Pass, OR 97528

Property Owner:

29 Palms Yucca Valley LLC

111 SE 2nd St #101

Delray, FL 33444

Representative:

Erik Nobel (Barghausen Consulting Engineers)

18215 72nd Avenue South

Kent, WA 98032

Existing General Plan Designation:

Mixed Use (MU) - Town Center Special Policy Area

Surrounding General Plan Designations:

North: Commercial (C) - Corridor Residential Overlay
South: Mixed Use (MU) - Town Center Special Policy Area
East: Mixed Use (MU) - Town Center Special Policy Area
West: Mixed Use (MU) - Town Center Special Policy Area

Existing Zoning Designation:

Mixed Use Commercial (C-MU)

Surrounding Zoning Designations:

North: Neighborhood Commercial (C-N)
South: Mixed Use Commercial (C-MU)
East: Mixed Use Commercial (C-MU)
West: Mixed Use Commercial (C-MU)

Surrounding Land Use:

North: Commercial Center

South: Vacant

East: Commercial Retail

West: Commercial Retail

PROJECT ANALYSIS:

PROJECT DESCRIPTION: The Project proposes the construction and operation of an approximately 1,025-square-foot Dutch Bros Coffee shop with a dual-lane drive-through facility and associated

site improvements. The drive-through is designed to accommodate 23 queued vehicles. In addition to on-site improvements, the Project would contribute in-lieu fees toward off-site roadway improvements

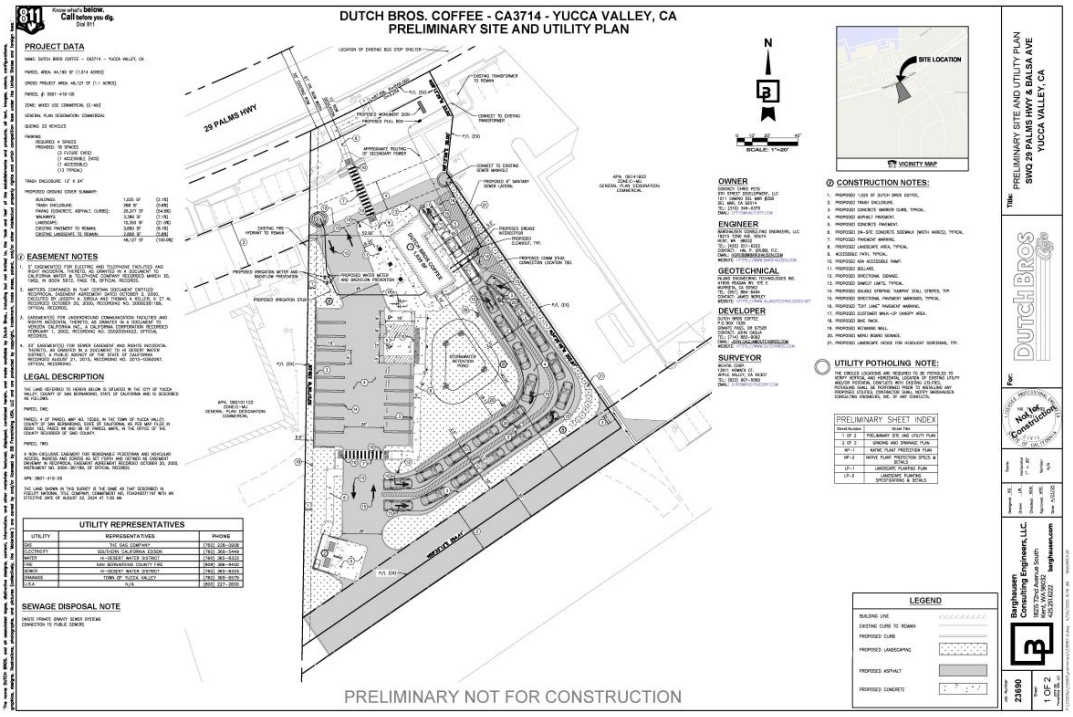
consistent with the Town's circulation plans, specifically, the widening of Twentynine Palms

Highway to an ultimate half-width of 67 feet along the Project frontage. The future widening of Twentynine Palms Highway

would be undertaken at a later date by the Town of Yucca Valley Public Works/Engineering Department and the San Bernardino County Transportation Authority. Construction of the Project would also necessitate

the removal of existing Western Joshua Trees (Yucca brevifolia) on-site.

The typical business hours for Dutch Bros Coffee are from 5:00a.m. to 11:00p.m. each day of the week. There are typically six to eight employees during a shift, and a total of 24 to 32 employees.



PROJECT AREA: 1.01 acres

BUILDING AREA: 1,025 square-feet

SETBACKS:

Front: 15' minimum required by Code. 80' proposed.

Rear: 0' minimum required by Code. 140.95' proposed.

Interior Side (West): 0' minimum required by Code. 52.92'' proposed.

Interior Side (East): 0' minimum required by Code. 29.5' proposed

MAX BUILDING HEIGHT: Maximum 40' allowed by Code. 24' proposed at top of parapet.

BUILDING ELEVATIONS: The proposed building is of varying heights, materials, and colors, including light and dark tan stucco, "El Dorado" stone veneer, blue cement, dark gray metal

awnings, dark gray doors,
and dark gray window trim.

SIGNAGE: Permits for signage are to be processed under a separate sign permit application and approval.

FAR: 0.5 Maximum allowed by Code. 0.02 proposed

PHASED CONSTRUCTION: Phased construction is not proposed.

FLOOD ZONE:N/A

ALQUIST PRIOLO/EARTHQUAKE FAULT HAZARD ZONE: N/A

ACCESS/PARKING: Code requires 1 space per 50 square feet of seating area (including outdoor dining). The site plan illustrates a drive-through and a customer walk-up canopy area. No indoor or outdoor customer seating area is proposed. A total of eighteen (18) parking spaces are proposed. Access to the site is gained through two existing driveways. One driveway is located to the northwest of Big 5, off of Twentynine Palms Highway. A second driveway is located to the east of Walgreens, off of Balsa Avenue.

ADA: One (1) van accessible ADA compliant parking space is required. The site plan illustrates one (1) ADA parking space and one (1) van accessible ADA parking space. The code requires a minimum 5’ loading aisle

width for a standard ADA parking space and an 8’ passenger side loading aisle for a van accessible ADA parking space. The site plan shall be corrected to comply with the loading aisle standard per Condition of Approval

P6. ADA access from a public roadway to the building is required.

AIRPORT COMPREHENSIVE LAND USE PLAN: The project is located within the Part 77 Imaginary Surface - Horizontal Surface and Safety Review Area 3 of the Airport Comprehensive Land Use Plan.

LANDSCAPING:

The preliminary landscaping for the proposed project includes the following plants, identified by scientific name, common name, size, and quantity proposed, and other decorative ground cover:

Olea Europaea/Swan Hill Fruitless Olive (15 GAL) - (QUANTITY 3)

Parkinsonia Aculeata/Mexican Palo Verde (15 GAL) - (QUANTITY 1)

Agave Deserti/Desert Agave (5 GAL) - (QUANTITY 9)

Aristida Purpurea/Purple Threeawn (1 GAL) - (QUANTITY 13)

Dasylirion Wheeleri/Grey Desert Spoon (5 GAL) - (QUANTITY 4)

Eriogonum Fasciculatum/California Buckwheat (5 GAL) - (QUANTITY 5)

Leucophyllum Frutescens/Texas Sage (5 GAL) -(QUANTITY 46)

Muhlenbergia Rigens/Deer Grass (5 GAL) - (QUANTITY 15)

Simmondsia Chinensis/Jojoba (5 GAL) - (QUANTITY 12)

Decorative Cobble (3-6" Local Cobble Over Fabric) - (1,498 square-feet)

Existing landscaping (trees and shrubs) along Twentynine Palms Highway is proposed to remain as-is, undisturbed. Existing landscaping is recommended to be maintained and rehabilitated in accordance with Condition of Approval P7.

TRASH ENCLOSURE:

Project includes a trash enclosure located to the southwest of the drive-through entrance, which shall accommodate three (3) bins for landfill, recycling, and organic waste in compliance with SB 1383.

RIGHT OF WAY DEDICATION REQUIRED:

Existing road easement adjacent to the project site for Twentynine Palms Highway, 55' half-width, an additional dedication of 12' is required to meet the ultimate 67' half-width required, per Condition of Approval E3.

OFF SITE IMPROVEMENTS REQ

Yes. However, pursuant to Section 9.30.050, in-lieu of fees shall be accepted per Condition of Approval E1.

ASSESSMENT DISTRICTS REQ: N/A.
STREET LIGHTS: N/A

CAL TRANS PERMIT REQUIRED: Yes. Required if work is in Caltrans right-of-way. Site plan illustrates on-site ADA walkway to encroach into Caltrans right-of-way.

UTILITY UNDERGROUNDING: Yes, in accordance with Ordinance 233.

ON-SITE LIGHTING: All lighting shall be shielded to comply with Development Code Chapter 8.70, Outdoor Lighting. Condition of Approval P4 is recommended, requiring 0.3-foot. candles or less of lighting output at each

property line, to be reviewed by Planning Division staff.

AIRPORT INFLUENCE AREA: Yes. A deed notice shall be recorded based on the proximity of Yucca Valley Airport.

TRAILS AND BIKE LANE MASTER PLAN: N/A

PUBLIC FACILITY MASTER PLAN: N/A

PARKS AND REC MASTER PLAN: N/A

MASTER PLAN OF DRAINAGE: N/A

SPECIFIC PLAN/PLANNED DEVELOPMENT: N/A

GATEWAY REIMBURSEMENT DISTRICT: N/A

AVALON SIGNAL REIMBURSEMENT DISTRICT: N/A

HDWD SEWER CONNECTION: Yes.

FUTURE PLANNING COMMISSION ACTION REQ. No, unless requested by the Planning Commission or Director.

TOWN COUNCIL ACTION REQUIRED: No, the project would be reviewed by Town Council only if an appeal is filed.

GENERAL PLAN CONSIDERATION:

The project site is designated Mixed Use (MU) within the Town Center Special Policy Area. The description below is provided from the Yucca Valley General Plan, Land Use Element, for reference to the

Mixed Use designation and Town Center Special Policy Area.

Intended for a mix of uses, including commercial, professional office, recreational, and high density residential land uses along SR-62 corridor in concentrated nodes. Its purpose is to allow

highly integrated commercial, residential, and office uses that facilitate pedestrian access and walkability. Proximity of residential uses near employment and activity centers can reduce vehicle trips

and greenhouse gas emissions. Housing opportunities are also encouraged in these areas, providing walkable accessibility to services and facilities. Development in this designation will require the

preparation of a Specific Plan or compliance with a new mixed use zoning designation and associated development standards.

The Town Center SPA is envisioned to be a regional commercial destination and employment hub that is characterized by integrated public spaces and complementary office and residential uses.

The Town Center SPA provides an opportunity for new commercial businesses that residents otherwise must travel "down the hill" to patronize. Uses in this area are assumed to build out at

60 percent retail, 20 percent office (0.50 FAR), and 20 percent residential (18 du/ac) mix.

The area was designated as a SPA because of its prominent location on SR-62 and the economic opportunities it provides in conjunction with the other SPAs and Mixed Use properties along the

corridor. All properties in the SPA are designated Mixed Use, which should provide places for people to gather, common design themes, and linkages to other uses in areas where the Town would like

to promote a concentration of community activity.

The proposed commercial use is consistent with the General Plan designation, and is complimentary to surrounding retail uses. A Specific Plan or Conceptual Master Plan is not recommended at this

time, as the project's proposed location, between two existing retail businesses, does not produce disjointed or piecemeal development, and development standards are established by code for the

Mixed Use district.

DEVELOPMENT CODE CONSIDERATION

The property has a zoning designation of Mixed Use Commercial (C-MU).

This designation allows for uses such as Fast food (with drive-through, delivery) per Section 9.09.020 of the Town's Development Code, subject to additional standards located in Section 9.14.030 of the

Town's Development Code.

ENVIRONMENTAL CONSIDERATIONS

An Initial Study/Mitigated Negative Declaration (IS/MND) was prepared for the proposed project to the California Code of Regulations, Title 14, Sections 15072 and 15105.

The IS/MND identified potentially significant environmental impacts to the following resc Biological Resources, Geology and Soils, Cultural Resources, and Tribal Cultural Resources.

Mitigation measures are incorporated to mitigate those potentially significant impacts to a leve less than significant with mitigation incorporated. Please see attached IS/MND for a

detailed analysis of potential impacts and required mitigation measures.

CONCLUSION

Based upon the facts on record, the project is consistent with the Town's General Plan, and Development Code, as recommended and conditioned. Commercial development was anticipated
for this site with the adoption of the General Plan. With approval from the Planning Commission, the development meets and satisfies the goals, policies and implementation strategies of the
General Plan.

CONDITIONAL USE PERMIT FINDINGS

A. That the location, size, design, density and intensity of the proposed development is consistent with the General Plan, the purpose of the land use district in which the site is located, and the
development policies and standards of the Town;

The proposed project site is located in the Mixed Use General Plan Designation and Mixed Use Commercial (C-MU) zoning district. The proposed size, design, and land use are consistent with the
General Plan and Development Code requirements.

B. That the location, size, design and architectural design features of the proposed structures

and improvements are compatible with the site's natural landform, surrounding sites, structures and
streetscapes;

The proposed development features varying heights, materials, and colors, including light and dark tan stucco, "El Dorado" stone veneer, blue cement, dark gray metal awnings, dark gray doors, and
dark gray window trim, and is substantially consistent with the Town's Commercial Design Guidelines.

C. That the proposed development produces compatible transitions in the scale, bulk, coverage, density and character of the development between adjacent land uses;

The proposed structure is not anticipated to result in any architectural incompatibilities in terms of scale, bulk coverage, density, or character of surrounding land uses. The proposed single-story structure
is set back from the highway and adjacent structures and does not result in any architectural incompatibilities with its surroundings.

D. That the building site and architectural design is accomplished in an energy efficient manner;

The proposed project is required to meet all California Building Code requirements for the type of commercial structure including the CALGreen requirements. As such, the building is anticipated to accomplish
energy efficiency.

E. That the materials, textures and details of the proposed construction, to the extent feasible, are compatible with the adjacent and neighboring structures.

The proposed development features varying materials and colors, including light and dark tan stucco, "El Dorado" stone veneer, blue cement, dark gray metal awnings, dark gray doors, and dark gray window trim,
and is substantially consistent with the Town's Commercial Design Guidelines. The proposed single-story structure is set back from the highway and adjacent structures and does not result in any architectural incompatibilities
with its surroundings.

F. That the development proposal does not unnecessarily block views from other buildings or from public ways, or visually dominate its surroundings with respect to mass and scale to an extent unnecessary and
inappropriate to the use.

The proposed development is 24' at the top of the parapet. Due to its limited height and setback from the adjoining right-of-way, the proposed project is not anticipated to visually dominate its surroundings or block views
from other buildings or the public right of way.

G. That the amount, location, and design of open space and landscaping conforms to the requirements of the Development Code, enhances the visual appeal and is compatible with the design and functions of the structure(s),
site and surrounding area;

The preliminary landscaping for the proposed project includes the following plants, identified by scientific name, common name, size, and quantity proposed, and other decorative ground cover: Olea Europaea/Swan Hill
Fruitless Olive (15 GAL) - (QUANTITY 3), Parkinsonia Aculeata/Mexican Palo Verde (15 GAL) - (QUANTITY 1), Agave Deserti/Desert Agave (5 GAL) - (QUANTITY 9), Aristida Purpurea/Purple Threeawn (1 GAL) - (QUANTITY 13),
Dasylirion Wheeleri/Grey Desert Spoon (5 GAL) - (QUANTITY 4), Eriogonum Fasciculatum/California Buckwheat (5 GAL) - (QUANTITY 5), Leucophyllum Frutescens/Texas Sage (5 GAL) -(QUANTITY 46),
Muhlenbergia Rigens/Deer Grass (5 GAL) - (QUANTITY 15), Simmondsia Chinensis/Jojoba (5 GAL) - (QUANTITY 12), and Decorative Cobble (3-6" Local Cobble Over Fabric) - (1,498 square-feet). Existing landscaping (trees and shrubs)
along Twentynine Palms Highway is proposed to remain as-is, undisturbed.

Pursuant to Chapter 9.32.070 of the Town's Development Code, the front and street-side yard setback areas shall also be landscaped using xeriscape landscaping techniques, which combines drought tolerant plant and
hardscape materials in a variety of aesthetically pleasing designs. The proposed project landscaping is required to comply with the California Model Water Efficiency Landscape Ordinance (MWELO). The proposed project therefore
conforms to the requirements in the Town's Development Code.

H. That quality in architectural design is maintained in order to enhance the visual environment of the Town and to protect the economic value of existing structures;

The structures are consistent with the Development Code and provide quality in architectural design consistent with the Commercial Design Guidelines.

I. That there are existing public facilities, services, and utilities available at the appropriate levels and/or that new or expanded facilities, services and utilities shall be required to be installed at the appropriate time to serve
the project as they are needed;

The project is located in an area of developed commercial properties. Each utility provider charges connection and service fees which are designed to include the need for additional facilities as growth occurs. The project
applicant will be required to pay these fees as applicable.

Electrical services are provided by Southern California Edison. Water services are provided by the Hi Desert Water District (HDWD). Solid Waste Services are provided by Burrtec, Inc. The

Town of Yucca Valley requires mandatory
solid waste services, and the project will be served by Burrtec.

J. That access to the site and circulation on and off-site is required to be safe and convenient for pedestrians, bicyclists, equestrians and motorists;

On-site circulation as proposed includes two existing points of ingress/egress from Twentynine Palms Highway and Balsa Avenue. ADA access is required to be provided to the public right-of-way and from the vehicle
parking lot to the structures. The future installation of off-site improvements, in the form of paved roadways and sidewalks, are anticipated to enhance convenience for both motor vehicles and other roadway users such
as pedestrians and cyclists. At this time, in-lieu fees are recommended for highway widening improvmeents.

K. That traffic generated from the proposed project has been sufficiently addressed and mitigated and will not adversely impact the capacity and physical character of surrounding streets;

The traffic analysis for the proposed project identified up to 358 daily vehicle trips. Based on the anticipated traffic generation, adverse traffic impacts are not anticipated.

L. That traffic improvements and/or mitigation measures have been applied or required in a manner adequate to maintain a Level of Service C or better on arterial roads, where applicable, and are consistent with the
Circulation Element of the Town General Plan;

The traffic analysis and IS/MND for the proposed project identified up to 358 daily vehicle trips. Based on the traffic analysis and required roadway improvements, no significant traffic impacts were identified and mitigation
measures are not required.

M. That there will not be significant harmful effects upon environmental quality and natural resources including endangered, threatened, rare species, their habitat, including but not limited to plants, fish, insects, animals, birds or reptiles;

The IS/MND identified potentially significant environmental impacts to Biological Resources. Mitigation measures are incorporated in the IS/MND to mitigate those potentially significant impacts to a level considered less than
significant with mitigation incorporated. Please see attached IS/MND for a detailed analysis of potential biological impacts and required mitigation measures.

N. That there are no other relevant or anticipated negative impacts of the proposed use that cannot be mitigated and reduced to a level of non-significance in conformance with CEQA, the California Environmental Quality Act;

An Initial Study/Mitigated Negative Declaration (IS/MND) was prepared for the proposed project pursuant to the California Code of Regulations, Title 14, Sections 15072 and 15105.

The IS/MND identified potentially significant environmental impacts to the following resc Biological Resources, Geology and Soils, Cultural Resources, and Tribal Cultural Resources measures are

*incorporated to mitigate those potentially significant impacts to a level considered less than sig mitigation incorporated. Please see attached IS/MND for a detailed analysis of potential i required mitigation measur*es.

O. That the impacts which could result from the proposed development, and the proposed location, size, design and operating characteristics of the proposed development, and the conditions under which it would be operated or
maintained will not be detrimental to the public health, safety and welfare of the community or be materially injurious to properties or improvements in the vicinity or be contrary to the adopted General Plan;

An Initial Study/Mitigated Negative Declaration (IS/MND) was prepared for the proposed project the California Code of Regulations, Title 14, Sections 15072 and 15105.

The IS/MND identified potentially significant environmental impacts to the following resc Biological Resources, Geology and Soils, Cultural Resources, and Tribal Cultural Resources measures are incorporated

*to mitigate those potentially significant impacts to a level considered less than significant wit incorporated. Please see attached IS/MND for a detailed analysis of potential impacts a mitigation measur*es.

P. That the proposed development will comply with each of the applicable provisions of this code, and applicable Town policies; except approved variances.

The project, as conditioned, complies with the standards and requirements of the Development Code and the policies and procedures of the Yucca Valley General Plan.

Alternatives
None.

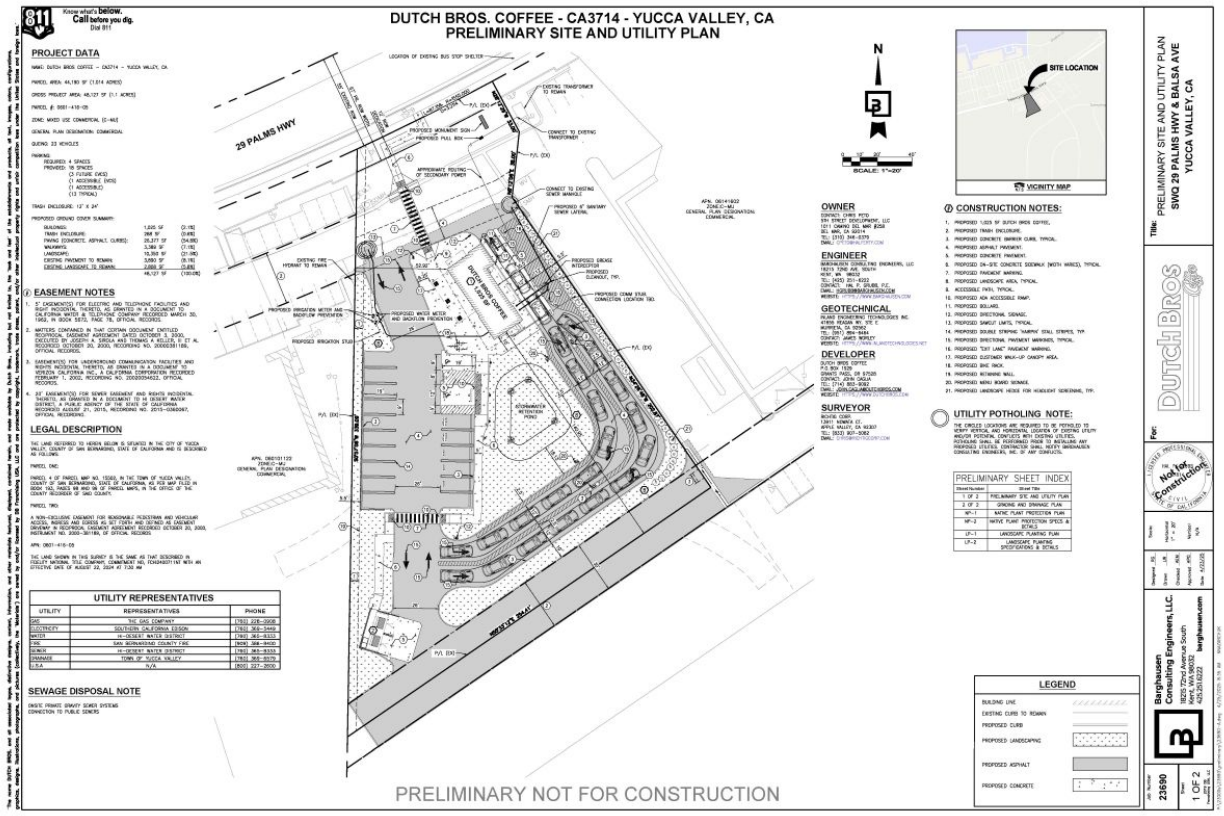
Fiscal Impact:
None.

Attachments

1. Draft COA CUP 02-25 Dutch Bros Coffee 4-14-2026
2. CUP 02-25 & EA 03-25 - Dutch Bros - Application -
3. CUP 02-25 & EA 03-25 - Dutch Bros - Site and Utility Plan 4-25-2025
4. CUP 02-25 & EA 03-25 - Dutch Bros - Elevations 4-25-2025
5. CUP 02-25 & EA 03-25 - Dutch Bros - Floor Plan 4-25-2025
6. CUP 02-25 & EA 03-25 - Dutch Bros - Material Board 4-25-2025
7. CUP 02-25 & EA 03-25 - Dutch Bros - Native Plant Plan 4-25-2025
8. CUP 02-25 & EA 03-25 - Dutch Bros - Photometric and Lighting 4-25-2025
9. CUP 02-25 & EA 03-25 - Dutch Bros - Preliminary Grading and Drainage 4-25-2025
10. CUP 02-25 & EA 03-25 - Dutch Bros - Preliminary Landscape Plan 4-25-2025
11. CUP 02-25 & EA 03-25 - Dutch Bros - Tree Survey 2-19-2025
12. CUP 02-25 & EA 03-25 - Dutch Bros - Arborist Letter 2-19-2025
13. Public Draft YV Dutch Bros ISMND 030326 W Appendices
14. YV Dutch Bros Final ISMND [040926]
15. NOH - Published 3 18 2026 Hi-Desert Star Newspaper - Dutch Bros - PC Meeting
16. NOI - Published Hi-Desert Star 3 4 2026 - Dutch Bros CUP 02-25 & EA 03-25
17. EA 03-25 Resolution

TOWN OF YUCCA VALLEY
CONDITIONS OF APPROVAL
ENVIRONMENTAL ASSESSMENT, EA 03-25
CONDITIONAL USE PERMIT, CUP 02-25
DUTCH BROS COFFEE SHOP

A request for the construction and development of a 1,025 square foot Dutch Bros coffee shop that is 24' in height, with a dual drive-through and covered walk-up service window, and parking lot with 18 vehicle stalls, located on an approximately 1.01 acre property. The project is located approximately 350 feet to the southwest of the intersection of Twentynine Palms Highway and Balsa Avenue at 58121 Twentynine Palms Highway and is also identified as APN: 0601-416-05.



GENERAL CONDITIONS

G1. The applicant shall agree to defend, indemnify and hold harmless the Town of Yucca Valley, its agents, officers and employees, at his sole expense, against any action, claim or proceedings brought against the Town or its agents, officers or employees, to attack, set aside, void, or annul this approval or because of the issuance of such approval, or in the alternative, to relinquish such approval, in compliance with the Town of Yucca Valley Development Code. The applicant shall reimburse the Town, its agents, officers, or employees for any court costs, and attorney's fees which the Town, its agents, officers or employees may be required by a court to pay as a result of such action. The Town may, at its sole discretion, participate at its own expense in the defense of any such action but such participation shall not relieve applicant of his obligations under this condition. The Town shall promptly notify the applicant of any claim, action or proceeding arising from the Town's approval of this project, and the Town shall cooperate in the defense.

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G2. This Conditional Use Permit shall become null and void if construction has not commenced within three (3) years of the Town of Yucca Valley date of approval. Extensions of time may be granted by the Planning Commission, in conformance with the Town of Yucca Valley Development Code. The applicant is responsible for the initiation of an extension request.

Approval Date: April 14, 2026
Expiration Date: April 14, 2029

G3. The applicant shall ascertain and comply with requirements of all State, County, Town and local agencies as are applicable to the project. These include, but are not limited to, County of San Bernardino Environmental Health Services, County of San Bernardino Transportation/Flood Control, County of San Bernardino Fire Department, Yucca Valley Building and Safety, Caltrans, High Desert Water District, Airport Land Use Commission, California Regional Water Quality Control Board, Colorado River Region, the Federal Emergency Management Agency, MDAQMD-Mojave Desert Air Quality Management District, Community Development, Engineering, and all other Town Departments.

G4. All conditions are continuing conditions. Failure of the applicant to comply with any or all of said conditions at any time may result in the revocation of any construction permits for the project.

G5. No on-site or off-site work shall commence without obtaining the appropriate permits for the work required by the Town and the appropriate utilities. The approved permits shall be readily available on the job site for inspection by Town personnel.

G6. The applicant shall pay all fees charged by the Town as required for application processing, plan checking, construction and/or inspections. The fee amounts shall be those which are applicable and in effect at the time work is undertaken and accomplished. Fees for entitlement prior to construction permits are based on estimated costs for similar projects. Additional fees may be incurred, depending upon the specific project. If additional fees for services are incurred, they must be paid prior to any further processing, consideration, or approval(s).

G7. One (1) representative for the project applicant shall coordinate and submit all permit applications required by the Town as appropriate. Multiple representatives submitting permit applications are highly discouraged.

G8. All improvements shall be inspected by the Town as appropriate. Any work completed without proper inspection may be subject to removal and replacement under proper inspection.

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G9. All refuse shall be removed from the premises in conformance with Town of Yucca Valley Municipal Code Chapter 8.03, Construction Site Maintenance and Trash Containment.

G10. During construction, the Applicant shall be responsible to sweep public paved roads adjacent to the project as necessary and as requested by the Town to eliminate any site related dirt and debris within the roadways. During business activities, the applicant shall keep the public right-of-way adjacent to the property in a clean and sanitary condition.

G11. No staging of construction equipment or parking of worker's vehicles shall be allowed within the public right-of-way of streets or other public improvements that have been accepted into the Town's maintained system

G12. All existing street and property monuments within or abutting this project site shall be preserved consistent with AB 1414. If during construction of onsite or offsite improvements monuments are damaged or destroyed, the applicant shall retain a qualified licensed land surveyor or civil engineer to reset those monuments per Town Standards and file the necessary information with the County Recorder's office as required by law (AB 1414).

G13. Each phase of the project shall function independently of all other phases. All improvements shall be completed for each phase to ensure that each phase functions separate from the remainder of the project, and shall include, but not be limited to, street improvements, drainage and retention/detention facilities, water delivery systems, fire suppressions systems, post construction erosion and sediment control systems, all utilities necessary to serve the project, and those improvements deemed necessary by the Town. All phasing plans shall be illustrated on rough and precise grading plans, erosion and sediment control plans, all plan required for obtaining native plant plan approval, and on any other plan as deemed necessary by the Town.

G14. At the time of permit issuance the applicant shall be responsible for the payment of fees associated with electronic file storage of documents

G15. The Applicant shall reimburse the Town for the Town's costs incurred in monitoring the developer's compliance with the Conditions of Approval including, but not limited to, inspections and review of developer's operations and activities for compliance with all applicable dust and noise operations. This condition of approval is supplemental and in addition to normal building permit and public improvement permits that may be required pursuant to the Yucca Valley Municipal Code.

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G16. Prior to the issuance of a Certificate of Occupancy for any habitable structure in each phase of the project, all improvements shall be constructed, final inspection performed, punch-list items completed, and all installations approved by the appropriate agency.

G17. After final plan check by the Town, original mylars (4 mil) shall be submitted to the Town for signature by the Town Engineer. All original mylars submitted for Town Engineer's signature must contain the design engineer's wet signature and stamp and all other required signatures.

G18. For any import or export of material, the Project proponent shall provide the following for review by the Town Engineer: the route of travel, number of trucks, daily schedule, and length of time required. No hauling of material shall begin without the Town Engineer's approval.

G19. Prior to any work being performed within the public right-of-way, the Project proponent shall provide the name, address, telephone, facsimile number, and e-mail address of the Contractor to perform the work. A description of the location, purpose, method of construction, and surface and subsurface area of the proposed work shall be supplied. A plat showing the proposed location and dimensions of the excavation and the facilities to be installed, maintained, or repaired in connection with the excavation, shall be provided and such other details as may be required by the Town Engineer.

G20. The site shall be developed in accordance with the approved plans on file with the Town of Yucca Valley, in accordance with the Conditions of Approval approved for the project, and in accordance with the General Plan and Development Code. Prior to any use of the project site or business activity being commenced thereon, all Conditions of Approval shall be completed to the satisfaction of the Town.

G21. Prior to issuances of building permits, all site plans, grading plans, landscape and irrigation plans, drainage/flood control plans, public improvement plans, erosion and sediment control plans, shall be coordinated for consistency with this approval.

G22. The Town may allow phased constructed of the project provided that the improvements necessary to adequately serve or mitigate the impacts of each phase of development are completed prior to the issuance of a Certificate of Occupancy for that phase.

G23. The applicant or the applicant's successor-in-interest shall be responsible for maintaining any undeveloped portion of the site in a manner that provides for the control of weeds, erosion and dust.

G24. If archaeological, paleontological or historical resources are uncovered during excavation or construction activities at the project site, work in the affected area will

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cease immediately and a qualified person with appropriate expertise shall be consulted by the applicant regarding mitigation measures to preserve or record the find. Recommendations by the consultant shall be implemented as deemed necessary and feasible by the Town before work commences in the affected area. If human remains are discovered, work in the affected area shall cease immediately and the County Coroner shall be notified. If it is determined that the remains might be those of a Native American, the California Native American Heritage Commission shall be notified and appropriate measures provided by State law shall be implemented.

G25. All street dedications shall be irrevocably offered to the public and shall continue in force until the Town accepts or abandons such offers. All dedications shall be free of all encumbrances as approved by the Town Engineer.

G26. The street design and circulation pattern of this project shall be coordinated with adjoining developments.

G27. The final conditions of approval issued by the approving authority shall be photographically or electronically placed on bond (blue/black line) paper and included in the Grading and Street Improvement plan sets on 24" x 36" bond (blue/ black line) paper and submitted with the plans for plan check. These conditions of approval shall become part of these plan sets and the approved plans shall be available in the field and during construction. Plan check fees shall not be charged for sheets containing the Conditions of Approval.

G28. Prior to issuance of a certificate of occupancy, the applicant shall submit all improvement plans on compact disks in digital format acceptable to the Town Engineer.

G29. Violations of any condition or restriction or prohibition set forth in these conditions, including all approved construction plans, public and private, for this project and subject to the Town's overall project approval and these conditions of approval, shall subject the owner, applicant, developer or contractor(s) to the remedies as noted in the Municipal Code. In addition, the Town Engineer or Building Official may suspend all construction related activities for violation of any condition, restriction or prohibition set forth in these conditions until such time as it has been determined that all operations and activities are in conformance with these conditions.

G30. After commencement of business operations, the applicant shall be responsible for daily removal of all windblown trash and debris and shall maintain the property in a clean condition.

G31. A bicycle parking and locking rack, for a minimum of three (3) bicycles, shall be placed on site in close proximity to building access.

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PLANNING CONDITIONS

P1. All mitigation measures identified in the Initial Study/Mitigated Negative Declaration and included in the Mitigation Monitoring and Reporting Program are included as conditions of approval by this reference.

P2. This approval does not include signage. The signage for the project shall be approved by the Planning Commission prior to issuance of any permits.

P3. Utilities shall be underground in conformance with Ordinance 233, or as amended by Town Council.

P4. All exterior lighting shall comply with Development Code chapter 8.70, Outdoor Lighting and shall be illustrated on all construction plans. The proposed project shall cause no light trespass at all property lines. Light trespass shall be defined as exceeding 0.3 foot candles at any property lines.

P5. Prior to the issuance of any permits the applicant/owner shall provide three (3) copies of a landscape and irrigation plan showing the size, type and location of all plant and irrigation systems. Said irrigation system shall incorporate a permanent automatic irrigation system, and all landscaping and irrigation systems shall be maintained in good condition at all times. All ground within proposed landscape planter areas shall be provided with approved ground cover. This shall include but not be limited to drought-tolerant plant materials or colored desert rock.

P6. Parking and on-site circulation requirements shall be provided and maintained as identified on the approved site plan. Areas reserved for access drive and/or fire lanes shall be clearly designated.

a. All paved parking stalls shall be clearly striped and permanently maintained with double or hairpin lines with the two lines being located an equal 9 inches on either side of the stall sidelines. All regular parking stalls be a minimum 9’ x 19’.

b. All marking to include parking spaces, directional designation, no parking designation and fire lane designations shall be clearly defined and said marking shall be maintained in good condition at all times. The Town Traffic Engineer shall approve all signage and markings for the circulation related signage.

c. All two-way drive aisles shall be at least 26 feet in width.

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d. ADA parking stalls shall have a minimum loading aisle of five feet (5'). Van accessible ADA parking stall(s) shall have a minimum passenger side loading aisle of eight feet (8').

P7. Existing landscaping (trees and shrubs) located at the project frontage along Twentynine Palms Highway shall be maintained and rehabilitated.

P8. Applicant shall construct a trash enclosure in compliance with Ordinance 42 of the Town's Development Code.

P9. All roof top mechanical equipment shall be screened from ground and street vistas. This information shall be included on the building plan submittal.

P10. Pursuant to Ordinance 156, Sign Regulations, wall signs are based upon one square foot of signage per one linear foot of lease space oriented towards a street, parking lot or alley. Freestanding signs are based upon one square foot of signage per five linear feet of property frontage.

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ENGINEERING CONDITIONS

E1. **Pay in lieu fees of $48,658 for future widening of SR 62.**

E2. **Per Town Standard Drawing No. 213 commercial driveways shall be located 150 feet from the curb return.**

E3. **Dedicate, or show there exists, sufficient right of way for a Highway (6 lanes divided) with 67-foot half street right of way per Town Standard Drawing No. 106. It appears that the existing highway right of way along the project frontage is 55 feet so and additional twelve (12) feet may be required.**

E4. **It appears that a portion of the southerly drive aisle is on the parcel to the south. A reciprocal access easement will be required for construction of the southerly half of the drive aisle.**

E5. Prior to the issuance of a Grading Permit, a Grading Plan prepared by a recognized professional Civil Engineer shall be submitted, and the corresponding fees shall be paid to the Town prior to any grading activity. The rough and precise Grading Plans shall be reviewed and approved by the Town Engineer prior to issuance of grading permits. The applicant/owner is responsible for all fees incurred by the Town. Prior to Certificate of Occupancy, the Engineer-of-Record shall survey and certify that the site grading was completed in substantial conformance with the approved Grading Plans.

E6. All manufactured slopes over the height of 3 feet shall be irrigated and landscaped immediately following grading. Prior to issuance of a grading permit for any portion of the site, the applicant/owner shall submit, for review and approval, an irrigation and landscaping plan or other appropriate treatment for all slope areas.

E7. The rough/precise grading shall be certified by a civil engineer that it was completed in substantial conformance with the approved Grading Plans. Prior to the issuance of any building permits the project Engineer shall certify the finished lot was graded in conformance to approved plans.

E8. The Engineer-of-Record or other civil engineer shall survey and provide pad certification for the site prior to issuance of building permits.

E9. Prior to the issuance of Permits, the Applicant shall comply with the recommendations of a site-specific Geotechnical and Soils Report which shall be reviewed and subject to Town approval. The report shall include recommendations for any onsite and offsite grading, foundations, compaction, structures, drainage, and existence of fault zones. It shall include recommendations for retention basins, slope stability and erosion control.

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The soils engineering report shall include data regarding the nature, distribution and strength of existing soils, conclusions and recommendations for grading procedures and design criteria for corrective measures, when necessary and opinions and recommendation covering the adequacy of sites for development. The report shall identify if the site contains any areas susceptible to landslide risk, liquefaction potential and/or subsidence potential on the project site. The report shall identify and include the location of major geologic features, topography and drainage, distribution and general nature of rock and soils, a reasonable evaluation and prediction of the performance of any proposed cut or fill in relation to geological conditions, and the capability of soils and substrata to support structures.

E10. All property corners, lots, easements, street centerlines, and curve radii shall be monumented and horizontally tied to identified control points. A copy of the monumentation survey and centerline tie notes shall be provided to the Town Engineer prior to certificate of occupancy.

E11. All recommended approved measures identified in the Soils Report shall be incorporated into the project design.

E12. A retention basin **and/or underground storage system** shall be constructed and functional prior to the issuance of certificate of occupancy for the any structure within the project. The applicant shall provide on-site retention for the incrementally larger flows caused by development of the site, pursuant to a final drainage report, subject to review and approval by the Town Engineer.

E13. A **final** drainage report, prepared by a registered Civil Engineer, shall be prepared to determine the flows exiting the site under current undeveloped conditions compared to the incrementally larger flows due to the development of the site. The retention basin size will be determined, per County of San Bernardino Flood Control methodology, such that incremental 100 year 24-hour storm volume, plus 10%, 20% preferred, is retained on-site.

E14. In lieu of an engineered drainage report the retention basin and/or underground storage system shall be sized to retain 100 cubic feet of storm water for each 1,000 square feet, and increments thereof, of impervious area proposed (structures, driveways, parking areas, etc.).

E15. Basin(s) shall be designed to fully dissipate storm waters within a 48 hour period.

E16. A pre-filtration system shall be installed for all drain lines connected to any underground storage system to collect sediment and hydrocarbon material prior to discharge into the underground system.

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E17. Any grading or drainage onto private off-site or adjacent property shall require a written permission to grade and/or a permission to drain letter from the affected property owner.

E18. In conjunction with precise grading certification, all retention/detention basins shall be certified by a civil engineer that they have been constructed in substantial conformance with the approved plans, and shall be certified that they have the required capacity and will operate in accordance with the approved drainage reports for the project.

E19. In conjunction with precise grading certification, all drainage systems, both public and private, shall be certified by a civil engineer that they have been constructed in substantial conformance with the approved plans, and shall be certified that they have the required capacity and will operate in accordance with the approved drainage reports for the project.

E20. No on-site or off-site work shall commence without obtaining the appropriate permits for the work involved from the Town. The approved permits shall be readily available on the job-site for inspection by the Town personnel.

E21. All grading activities shall minimize dust through compliance with MDAQMD Rules 402 and 403.

E22. Prior to issuance of a grading permit, a Fugitive Dust and Erosion and Sediment Control Plan shall be submitted and approved by the Town Engineer. The Fugitive Dust and Erosion and Sediment Control Plan shall illustrate all proposed phasing for construction of the project.

E23. Prior to any work being performed in the public right-of-way, fees shall be paid and an encroachment permit shall be obtained from the Town. The Applicant shall apply for an encroachment permit from the Town for utility trenching, utility connection, or any other encroachment onto public right-of-way. The Applicant shall be responsible for the associated costs and arrangements with each public utility.

E24. The Applicant shall restore any pavement cuts required for installation or extension of utilities for his project within the public right-of-way. In all cases where cuts are allowed, the Applicant is required to patch the cuts to Town standards and the approval of the Town Engineer. The patching shall include a grinding of the pavement to a width 4 feet beyond the edge of the trench on each side, or as determined by the Town Engineer, and replacement with a full-depth asphalt concrete recommended by the Soils Engineer.

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E25. In conjunction with the rough/precise grading plan submittal, street plans prepared by a recognized professional Civil Engineer shall be submitted, and the corresponding fees shall be paid to the Town. The final street plans shall be reviewed and approved by the Town Engineer. The applicant/owner is responsible for all fees incurred by the Town. Prior to Certificate of Occupancy, the Engineer-of-Record shall survey and certify that the site grading was completed in substantial conformance with the approved Grading Plans.

E26. The Applicant shall accept and properly dispose of all off-site drainage flowing onto or through the site.

E27. The Applicant shall construct the replacement of any identified damaged curb and gutter, sidewalk, drive approach, asphalt concrete pavement, meter boxes, and other infrastructure that may be required by the Town Engineer or another Agency.

E28. The Applicant shall install all water and sewer systems required to serve the project. All water and sewer systems shall be completed to the requirements of the Hi Desert Water District.

E29. The Applicant shall observe the construction of this project to make certain that no damage or potential for damage occurs to adjacent roadway, existing improvements, adjacent property and other infrastructure. The applicant shall be responsible for the repair of any damage occurring to offsite infrastructure and/or property damage as determined by the Town Engineer. The applicant shall repair any such damage prior to certificate of occupancy. If the damage is such that it is not repairable within a reasonable amount of time as determined by the Town Engineer, the applicant may petition the Town Engineer for additional conditions that may allow him the time, amount of surety and other requirements to repair the damage.

E30. The Applicant shall be responsible for all improvements constructed within the public right-of-way as required by the conditions of approval. The improvements shall be constructed to the standards and requirements as determined and approved by the Town Engineer. Any improvements not considered to be to the required standards shall be replaced by the Applicant. The Applicant shall be required to maintain and repair those improvements prior to and after acceptance by the Town Council for the length of time required by the applicable conditions, standards and ordinances.

E31. All improvement plans shall be designed by a Registered Civil Engineer.

E32. Any area which remains undeveloped for a period of more than 30 days shall be stabilized using either chemical stabilizers or a desert wildflower mix hydroseed on the affected portion of the site.

DRAFT

Applicant Initials_____

E33. Prior to the issuance of any grading permit to disturb, expose or stockpile an aggregate of more than one acre of land, an erosion and sediment control plan for the project shall be submitted to and approved by the Town Engineer and securities meeting the requirements contained herein shall be posted with the Town. The amount of the security shall be equal to one hundred (100) percent of the total estimated cost of the erosion and sediment control system(s). The permittee's estimate of such cost shall be subject to the review and approval of the Town engineer. The erosion and sediment control security shall be in the form of a Cash Deposit.

E34. The Applicant shall be responsible for inspection, modification, and proper maintenance of the erosion control devices as necessary. If the Applicant fails or refuses to properly maintain the erosion control devices, the Town official may cause emergency maintenance work to be done in order to protect potentially impacted property. The cost shall be deducted from the erosion control security posted for the project and shall include all costs related to the emergency maintenance including initial mobilization and performance of the work in addition to applicable administrative costs.

E35. If the Applicant fails or refuses to properly maintain the erosion control devices, the Town Engineer may cause emergency maintenance work to be done in order to protect potentially impacted property. The cost shall be deducted from the erosion control security posted for the project and shall include all costs related to the emergency maintenance including initial mobilization and performance of the work in addition to applicable administrative costs.

E36. If construction of erosion control systems outside of the project boundaries is necessary, permission to construct such systems from the owner of such off-site property is required. Plans for the off-site system shall be included with the on-site plans submitted to the Town Engineer. The plans for the off-site erosion control system shall include permission to grade and maintain the erosion control system from all affected property owners and letters of clearance and/or permits from all appropriate governmental entities.

E37. The Applicant shall submit a post construction erosion and sediment control plan which identifies and illustrates all necessary improvements to prevent the movement and or loss of any soil and sediment materials from the project site, including all individual lots for construction of habitable structures, all slope banks, and all areas of the site capable of resulting in the deposit of soils and sediments with the street or storm drain system. The post construction erosion and sediment improvements shall be certified by a civil engineer that they were constructed in substantial conformance with the approved plans and specifications.

DRAFT

Applicant Initials_____

E38. It is understood that the proposed site plan plans correctly shows all existing easements, traveled ways and drainage courses, and that their omission may require the improvement plans to be resubmitted for further consideration.

E39. Private drainage easements for cross-lot drainage shall be dedicated and delineated on the final map (if required).

E40. A construction area traffic control plan, including temporary and final permanent striping, shall be designed by a registered Civil Engineer or Traffic Engineer for review and approval by the Town Engineer for any street construction, closure, detour or other disruption to traffic circulation.

E41. All street closures must be approved by Town Council action.

E42. The following shall information regarding the presence of the Marine Corps Air Ground Combat Center (MGAGCC) shall be recorded on the title of each property contained within the boundaries of the Conditional Use Permit.

> "The Marine Corps Air Ground Combat Center is located in the Morongo Basin. To prepare Marines for future conflicts, the MGAGCC carries out realistic training with military munitions, both day and night. As a result, Military aircraft fly over the area, and military vehicles drive on and off the base every day. This property is located directly under two aircraft flying routes and is located approximately 13 miles from the installation boundary. Consequently, you should expect to hear military training, see low-flying military aircraft, and encounter other experiences associated with the important mission of the MCAGCC".

E43. After final plan check by the Town, original mylars (4 mil) shall be submitted to the Town for signature by the Town Engineer. All original mylars submitted for the Town Engineer's signature must contain the design engineer's wet signature and stamp and all other required signatures.

E44. The project street and lot grading shall be designed in a manner that perpetuates the existing natural drainage patters with respect to tributary drainage area and outlet points. Unless otherwise approved by the Town Engineer, lot lines shall be located at the top of slopes.

E45. Improvement plans shall be based upon a centerline profile, extending beyond the project boundaries a minimum distance of 300 feet at a grade and alignment approved by the Town Engineer.

E46. **Handicapped access to the site shall meet all applicable ADA requirements.**

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Applicant Initials_____

E47. All existing street and property monuments within or abutting this project site shall be preserved consistent with AB 1414. If during construction of onsite or offsite improvements monuments are damaged or destroyed, the Applicant/ Developer shall retain a qualified licensed land surveyor or civil Engineer to reset those monuments per Town Standards and file the necessary information with the County Surveyor's office as required by law (AB 1414).

E48. All improvement plans shall be designed by a Registered Civil Engineer.

E49. The Applicant shall restore any pavement cuts required for installation or extension of utilities for his project within the public right-of-way. In all cases where cuts are allowed, the Applicant is required to patch the cuts to Town standards and the approval of the Town Engineer. The patching shall include a grinding of the pavement to a width 4 feet beyond the edge of the trench on each side, or as determined by the Town Engineer, and replacement with a full-depth asphalt concrete recommended by the Soils Engineer.

E50. The Applicant shall construct the replacement of any identified damaged curb and gutter, sidewalk, drive approach, asphalt concrete pavement, meter boxes, and other infrastructure that may be required by the Town Engineer or another Agency.

E51. The Applicant shall install all water and sewer systems required to serve the project. The location of the proposed septic system(s) shall be shown on the project grading plan(s).

E52. The Developer and his Contractor(s) shall observe the construction of this project to make certain that no damage or potential for damage occurs to adjacent roadway, existing improvements, adjacent property and other infrastructure. The Developer shall be responsible for the repair of any damage occurring to offsite infrastructure and/or property damage as determined by the Town Engineer. The Developer shall repair any such damage prior to certificate of occupancy. If the damage is such that it is not repairable within a reasonable amount of time as determined by the Town Engineer, the Developer may petition the Town Engineer for additional conditions that may allow him the time, amount of surety and other requirements to repair the damage.

E53. The Developer and his Contractor(s) shall be responsible for all improvements that he has constructed within the public right-of-way as required by the conditions of approval. The improvements shall be constructed to the standards and requirements as determined and approved by the Town Engineer. Any improvements not considered to be to the required standards shall be replaced by the Developer. The Developer shall be required to maintain and repair those improvements prior to and after acceptance by the Town Council for the length of time required by the applicable conditions, standards and ordinances.

DRAFT

Applicant Initials_____

E54. The developer shall reimburse the Town for the Town's costs incurred in monitoring the developer's compliance with the Conditions of Approval including, but not limited to, inspections and review of developer's operations and activities for compliance with all applicable dust and noise operations. This condition of approval is supplemental and in addition to normal building permit and public improvement permits that may be required pursuant to the Yucca Valley Municipal Code.

DRAFT

Applicant Initials_____

BUILDING AND SAFETY CONDITIONS

B1. All construction plans must comply with the most current adopted California Building Codes. Including the 2025 California Wildland Urban Interface Code.

B2. All buildings require sprinklers compliant with the 2025 California Fire Code.

B3. All common areas and designated areas are required to comply with Ch. 11B of the 2025 California Building Code.

B4. All solar and electrical storage means are to comply with the 2025 California Energy Code, 2025 California Green Code and 2025 California Electrical Code.

B5. A pre-construction meeting is to be established and completed after issuance of grading and building permits.

B6. Applicant/developer shall provide plans and obtain the required permits that comply with applicable provisions of the 2025 California Building, Plumbing, Electrical, and Mechanical Codes, the 2025 California Green Building Standards Code, and Title 24 Energy Code, Part 6.

B7. All Plans to be stamped and wet signed by California Licensed Engineer or Architect.

B8. Provide all required ADA access plan (Parking, path of travel, building access, restroom, ADA workspace, etc.) per 2025 CBC.

B9. Obtain San Bernardino County Fire approval for building and site improvements.

B10. Obtain will serve letter from Hi-Desert Water.

B11. Prior to final certificate of occupancy, as required by California State Health and Safety Code Section 19850, the applicant shall provide 1 copy of the stamped approved plans and revisions on CD in PDF format to the Town of Yucca Valley Building and Safety Division to serve as the official file copy of the approved building plans.

B12. Submit 3 complete sets of plans and provide 1 electronic copy of all plans and all calculations at the initial plan review submittal.

I HEREBY CERTIFY THAT THE APPROVED CONDITIONS OF APPROVAL WILL BE SATISFIED PRIOR TO OR AT THE TIMEFRAMES SPECIFIED AS SHOWN ABOVE. I UNDERSTAND THAT FAILURE TO SATISFY ANY ONE OF THESE CONDITIONS WILL PROHIBIT THE ISSUANCE OF ANY PERMIT OR ANY FINAL MAP APPROVAL.

Applicant Initials_____

DRAFT

Applicant's Signature _____ Date _____

DRAFT

Applicant Initials_____

Docusign Envelope ID: 18C56616-90B4-4148-B43D-7F1746E58C5D

Conditional Use Permit Application

Date Received 2/19/25
By Evan
Fee $4,016 + $1,373
Case # CUP 02-25
EA # EA 03-25

General Information

APPLICANT John Caglia (Dutch Bros) Phone 714-883-9092

Mailing Address PO Box 1929 Email John.caglia@dutchbros.com

City Grants Pass State OR Zip 97528

REPRESENTATIVE Erik Nobel (Barghausen Consulting Engineers) Phone 541-892-2292

Mailing Address 18215 72nd Avenue South Email ENobel@barghausen.com

City Kent State WA Zip 98032

PROPERTY OWNER 29 Palms Yucca Valley LLC Phone

Mailing Address 111 SE 2nd St #101 Email

City Delray State FL Zip 33444

Project Information

Project Address Assessor Parcel Number(s) 0601-416-05

Project Location Between 58111 and 58133 29 Palms Highway

Project Description: The project is the construction of a 980 square foot Dutch Bros Coffee with a drive through service window, and a covered walk up service window on the opposite side. Site improvement include dual drive-through lanes with stacking for 23 vehicles, a bypass/exit lane, and a trash/recycling enclosure. Other improvement will include new parking for 18 vehicles, drainage, and landscaping.

Please attach any additional information that is pertinent to the application.

Town of Yucca Valley
Community Development Department
58928 Business Center Drive
Yucca Valley, CA 92284
760 369-6575 Fax 760 228-0084
www.yucca-valley.org

Docusign Envelope ID: 18C56616-90B4-4148-B43D-7F1746E58C5D

Environmental Assessment

1. Property boundaries, dimensions and area (also attach an 8 ½ x 11" site plan):

2. Existing site zoning: Mixed Use

3. Existing General Plan designation: Commercial

4. Precisely describe the existing use and condition of the site:
   The subject property is an undeveloped vacant property.

5. Existing Zoning of adjacent parcels:

   North C-N South C-MU East C-MU West C-MU

6. Existing General Plan designation of adjacent parcels:

   North C South C East C West C

7. Precisely describe existing uses adjacent to the site:

   North Directly North is Twenty Nine Palms Highway. Across the Highway is a shopping center with Stater Bros Grocery

   South Undeveloped

   East Retail Store - Walgreens

   West Retail Store - Big 5 Sporting Goods

8. Describe the plant cover found on the site, including the number and type of all protected plants:

Docusign Envelope ID: 18C56616-90B4-4148-B43D-7F1746E58C5D

Note: Explain any "Yes" or '"Maybe" responses to questions below. If the information and responses are insufficient or not complete, the application may be determined incomplete and returned to the applicant.

Yes	Maybe	No	
☐	☐	☑	9. Is the Site on filled or slopes of 15% or more or in a canyon? (A geological and/or soils Investigation report is required with this application.)
☐	☑	☐	10. Has the site been surveyed for historical, paleontological or archaeological resources? (If yes, a copy of the survey report is to accompany this application.)
☐	☐	☐	11. Is the site within a resource area as identified in the archaeological and historical resource element?
☐	☐	☑	12. Does the site contain any unique natural, ecological, or scenic resources?
☐	☐	☑	13. Do any drainage swales or channels border or cross the site?
☐	☐	☑	14. Has a traffic study been prepared? (If yes, a copy of the study is to accompany this application.)
☐	☐	☑	15. Is the site in a flood plain? (See appropriate FIRM)

Docusign Envelope ID: 18C56616-90B4-4148-B43D-7F1746E58C5D

Project Description

Complete the items below as they pertain to your project. Attach any other supplemental information that will assist in the review of the proposed project pursuant to CEQA.

1. **Commercial, Industrial, or Institutional Projects:**

   A. Specific type of use proposed: Drive through coffee stand

   B. Gross square footage by each type of use: 980 square foot

   C. Gross square footage and number of floors of each building: N/A

   D. Estimate of employment by shift: 6 to 8

   E. Planned outdoor activities: Walk up service

2. **Percentage of project site covered by:**

   Paving 52.9 % Building 2.2 % Landscaping 26.1 % Parking 8.2 %

3. **Maximum height of structures** _____

4. **Amount and type of off street parking proposed**: 18 (3 future EVCS, 1 accessible EVCS, 1 Accessible, and 13 typical)

5. **How will drainage be accommodated?** All storm water will directed to a retention pond to be constructed in the center of the property approximately 18550 square feet in size.

6. **Off-site construction (public or private) required to support this project:**
   No off - site improvement are anticipated except connection to sewer and water.

7. **Preliminary grading plan estimate of cut and fill** _____

8. **Description of project phasing if applicable:** N/A

9. **Is this project part of a larger project previously reviewed by the Town? If yes, identify the review process and associated project title(s)** _____

Docusign Envelope ID: 18C56616-90B4-4148-B43D-7F1746E58C5D

11. During construction, will the project: (Explain any "yes" or "maybe" responses to questions below – attach extra pages if necessary.)

Yes	Maybe	No	
☐	☐	☑	A. Emit dust, ash, smoke, fumes or odors?
☐	☐	☑	B. Alter existing drainage patterns?
☐	☐	☑	C. Create a substantial demand for energy or water?
☐	☐	☑	D. Discharge water of poor quality?
☐	☐	☑	E. Increase noise levels on site or for adjoining areas?
☐	☐	☑	F. Generate abnormally large amounts of solid waste or litter?
☐	☐	☑	G. Use, produce, store, or dispose of potentially hazardous materials such as toxic or radioactive substances, flammable or explosives?
☐	☐	☑	H. Require unusually high demands for such services as police, fire, sewer, schools, water, public recreation, etc.
☐	☐	☑	I. Displace any residential occupants?

Docusign Envelope ID: 18C56616-90B4-4148-B43D-7F1746E58C5D

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   North Directly North is Twenty Nine Palms Highway. Across the Highway is a shopping center with Stater Bros Grocery

   South Undeveloped

   East Retail Store - Walgreens

   West Retail Store - Big 5 Sporting Goods

8. Describe the plant cover found on the site, including the number and type of all protected plants: Only Protective plant is Joshua Trees. There are 19 alive and 3 dead trees.

Owner/Applicant Authorization

Applicant/Representative: I/We have reviewed this completed application and the attached material. The information included with this application is true and correct to the best of my/our knowledge. I/We further understand that the Town may not approve the application as submitted, and may set conditions of approval. Further, I/We understand that all documents, maps, reports, etc., submitted with this application are deemed to be public records. This application does not guarantee approval or constitute a building permit application. Additional fees may be required depending on additional administrative costs.

Signature: _____

Name: John Caglia

Date: 1/30/25

Property Owner: I/We certify that I/We are presently the legal owner(s) of the above described property (If the undersigned is different from the legal property owner, a letter of authorization must accompany the form). Further, I/We acknowledge the filing of this application and certify that all of the above information is true and accurate. I/We understand that I/We are responsible for ensuring compliance with conditions of approval. I/We hereby authorize the Town of Yucca Valley and or/its designated agent(s) to enter onto the subject property to confirm the location of existing conditions and proposed improvements including compliance with applicable Town Code Requirements. Further, I/We understand that all documents, maps, reports, etc., submitted with this application are deemed to be public records. This application does not guarantee approval or constitute a building permit application. Additional fees may be required depending on additional administrative costs. I am hereby authorizing

Dutch Bros (John Caglia)

to act as my agent and is further authorized to sign any and all documents on my behalf.

Signature: _____

Name: Randall K. Smith

Date: 2/5/25

The Town of Yucca Valley is hereby granted release to copy and reproduce electronically, in whole or in part, drawings and all other materials submitted with this development application including phone numbers, addresses and e-mail addresses, for the Town's regulatory, administrative, and legal functions, including sharing of information with other governmental entities and for compliance with the California Public Records Act (CPRA). If any of these statements cannot be affirmatively acknowledged, please inform the planner before submitting a development application.

Signature: _____

Name: _____

Date: _____

Owner/Applicant Authorization

Applicant/Representative: I/We have reviewed this completed application and the attached material. The information included with this application is true and correct to the best of my/our knowledge. I/We further understand that the Town may not approve the application as submitted, and may set conditions of approval. Further, I/We understand that all documents, maps, reports, etc., submitted with this application are deemed to be public records. This application does not guarantee approval or constitute a building permit application. Additional fees may be required depending on additional administrative costs.

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Date: 1/30/25

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Dutch Bros (John Caglia)

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Signature: _____

Name: _____

Date: _____

Know what's below. Call before you dig. Dial 811

DUTCH BROS. COFFEE - CA3714 - YUCCA VALLEY, CA
PRELIMINARY SITE AND UTILITY PLAN

PROJECT DATA

NAME: DUTCH BROS COFFEE – CA3714 – YUCCA VALLEY, CA

PARCEL AREA: 44,190 SF (1.014 ACRES)

GROSS PROJECT AREA: 48,127 SF (1.1 ACRES)

PARCEL #: 0601-416-05

ZONE: MIXED USE COMMERCIAL (C-MU)

GENERAL PLAN DESIGNATION: COMMERCIAL

QUEING: 23 VEHICLES

PARKING:
REQUIRED: 4 SPACES
PROVIDED: 18 SPACES
(3 FUTURE EVCS)
(1 ACCESSIBLE EVCS)
(1 ACCESSIBLE)
(13 TYPICAL)

TRASH ENCLOSURE: 12' X 24'

PROPOSED GROUND COVER SUMMARY:

BUILDINGS:	1,025 SF	(2.1%)
TRASH ENCLOSURE:	288 SF	(0.6%)
PAVING (CONCRETE, ASPHALT, CURBS):	26,377 SF	(54.8%)
WALKWAYS:	3,389 SF	(7.1%)
LANDSCAPE:	10,350 SF	(21.5%)
EXISTING PAVEMENT TO REMAIN:	3,890 SF	(8.1%)
EXISTING LANDSCAPE TO REMAIN:	2,808 SF	(5.8%)
	48,127 SF	(100.0%)

EASEMENT NOTES

1. 5' EASEMENT(S) FOR ELECTRIC AND TELEPHONE FACILITIES AND RIGHT INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO CALIFORNIA WATER & TELEPHONE COMPANY RECORDED MARCH 30, 1962, IN BOOK 5672, PAGE 78, OFFICIAL RECORDS.
2. MATTERS CONTAINED IN THAT CERTAIN DOCUMENT ENTITLED RECIPROCAL EASEMENT AGREEMENT DATED OCTOBER 3, 2000, EXECUTED BY JOSEPH A. SIROLA AND THOMAS A KELLER, III ET AL RECORDED OCTOBER 20, 2000, RECORDING NO. 20000381189, OFFICIAL RECORDS.
3. EASEMENT(S) FOR UNDERGROUND COMMUNICATION FACILITIES AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO VERIZON CALIFORNIA INC., A CALIFORNIA CORPORATION RECORDED FEBRUARY 1, 2002, RECORDING NO. 20020054622, OFFICIAL RECORDS.
4. 20' EASEMENT(S) FOR SEWER EASEMENT AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO HI DESERT WATER DISTRICT, A PUBLIC AGENCY OF THE STATE OF CALIFORNIA RECORDED AUGUST 21, 2015, RECORDING NO. 2015-0360067, OFFICIAL RECORDING.

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

PARCEL ONE:

PARCEL 4 OF PARCEL MAP NO. 15502, IN THE TOWN OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 193, PAGES 98 AND 99 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL TWO:

A NON-EXCLUSIVE EASEMENT FOR REASONABLE PEDESTRIAN AND VEHICULAR ACCESS, INGRESS AND EGRESS AS SET FORTH AND DEFINED AS EASEMENT DRIVEWAY IN RECIPROCAL EASEMENT AGREEMENT RECORDED OCTOBER 20, 2000, INSTRUMENT NO. 2000-381189, OF OFFICIAL RECORDS

APN: 0601-416-05

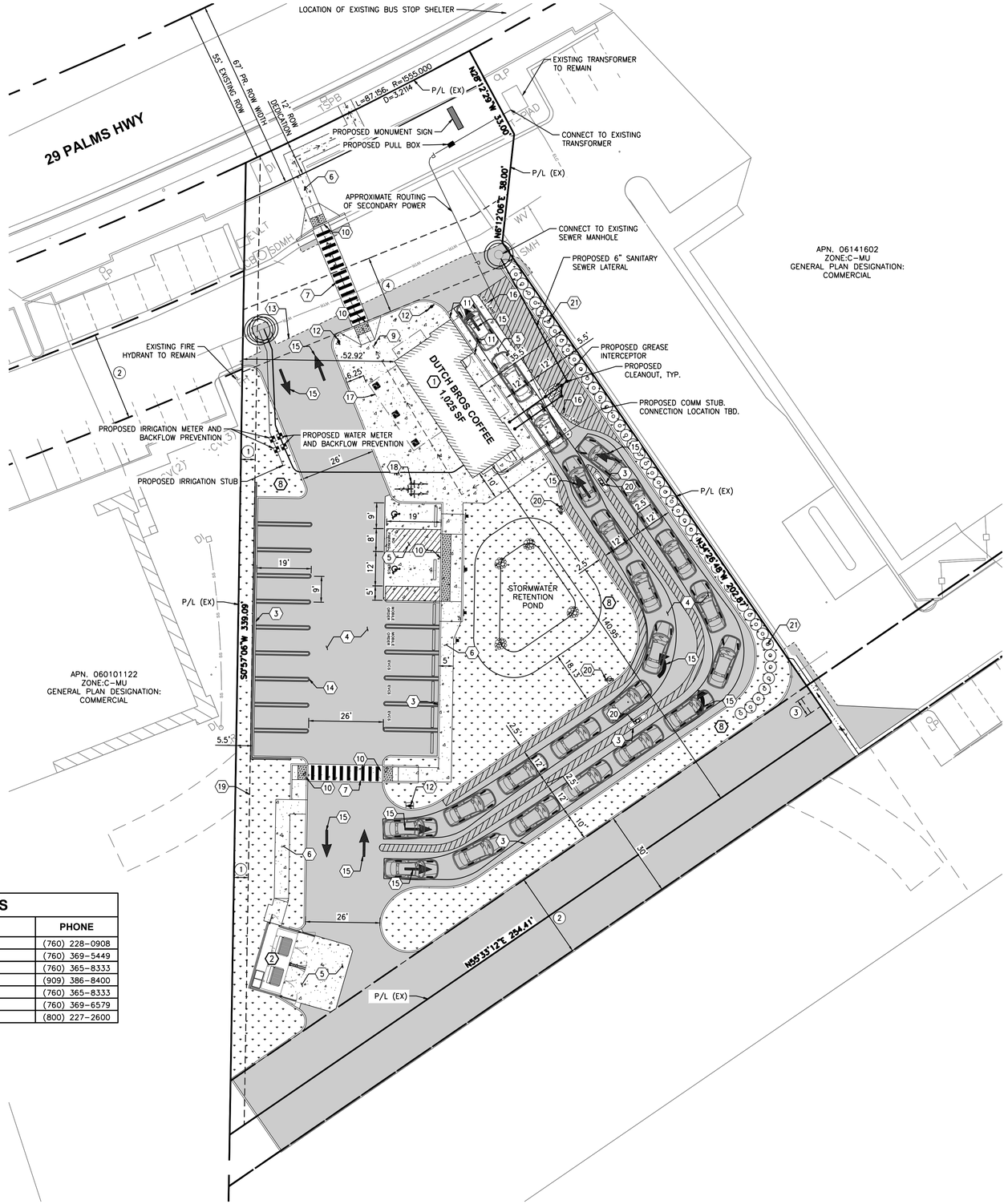
THE LAND SHOWN IN THIS SURVEY IS THE SAME AS THAT DESCRIBED IN FIDELITY NATIONAL TITLE COMPANY, COMMITMENT NO. FCHI2400711NT WITH AN EFFECTIVE DATE OF AUGUST 22, 2024 AT 7:30 AM

UTILITY REPRESENTATIVES

UTILITY	REPRESENTATIVES	PHONE
GAS	THE GAS COMPANY	(760) 228-0908
ELECTRICITY	SOUTHERN CALIFORNIA EDISON	(760) 369-5449
WATER	HI-DESERT WATER DISTRICT	(760) 365-8333
FIRE	SAN BERNARDINO COUNTY FIRE	(909) 386-8400
SEWER	HI-DESERT WATER DISTRICT	(760) 365-8333
DRAINAGE	TOWN OF YUCCA VALLEY	(760) 369-6579
U.S.A	N/A	(800) 227-2600

SEWAGE DISPOSAL NOTE

ONSITE PRIVATE GRAVITY SEWER SYSTEMS
CONNECTION TO PUBLIC SEWERS



N

0 10' 20' 40'
SCALE: 1"=20'

OWNER
CONTACT: CHRIS PETO
5TH STREET DEVELOPMENT, LLC
1011 CAMINO DEL MAR #258
DEL MAR, CA 92014
TEL: (310) 346-0379
EMAIL: CPETO@HALFERTY.COM

ENGINEER
BARGHAUSEN CONSULTING ENGINEERS, LLC
18215 72ND AVE. SOUTH
KENT, WA 98032
TEL: (425) 251-6222
CONTACT: HAL P. GRUBB, P.E.
EMAIL: HGRUBB@BARGHAUSEN.COM
WEBSITE: HTTPS://WWW.BARGHAUSEN.COM

GEOTECHNICAL
INLAND ENGINEERING TECHNOLOGIES INC.
41655 REAGAN WY. STE E
MURRIETA, CA 92562
TEL: (951) 894-6464
CONTACT: JAMES WORLEY
WEBSITE: HTTPS://WWW.INLANDTECHNOLOGIES.NET

DEVELOPER
DUTCH BROS COFFEE
P.O.BOX 1929
GRANTS PASS, OR 97528
CONTACT: JOHN CAGLIA
TEL: (714) 883-9092
EMAIL: JOHN.CAGLIA@DUTCHBROS.COM
WEBSITE: HTTPS://WWW.DUTCHBROS.COM

SURVEYOR
RICHTIG CORP.
13911 NOWATA CT.
APPLE VALLEY, CA 92307
TEL: (833) 907-5082
EMAIL: CHRIS@RICHTIGCORP.COM

CONSTRUCTION NOTES:

1. PROPOSED 1,025 SF DUTCH BROS COFFEE.
2. PROPOSED TRASH ENCLOSURE.
3. PROPOSED CONCRETE BARRIER CURB, TYPICAL.
4. PROPOSED ASPHALT PAVEMENT.
5. PROPOSED CONCRETE PAVEMENT.
6. PROPOSED ON-SITE CONCRETE SIDEWALK (WIDTH VARIES), TYPICAL.
7. PROPOSED PAVEMENT MARKING.
8. PROPOSED LANDSCAPE AREA, TYPICAL.
9. ACCESSIBLE PATH, TYPICAL.
10. PROPOSED ADA ACCESSIBLE RAMP.
11. PROPOSED BOLLARD.
12. PROPOSED DIRECTIONAL SIGNAGE.
13. PROPOSED SAWCUT LIMITS, TYPICAL.
14. PROPOSED DOUBLE STRIPING 'HAIRPIN' STALL STRIPES, TYP.
15. PROPOSED DIRECTIONAL PAVEMENT MARKINGS, TYPICAL.
16. PROPOSED "EXIT LANE" PAVEMENT MARKING.
17. PROPOSED CUSTOMER WALK-UP CANOPY AREA.
18. PROPOSED BIKE RACK.
19. PROPOSED RETAINING WALL.
20. PROPOSED MENU BOARD SIGNAGE.
21. PROPOSED LANDSCAPE HEDGE FOR HEADLIGHT SCREENING, TYP.

UTILITY POTHOLING NOTE:

THE CIRCLED LOCATIONS ARE REQUIRED TO BE POTHOLED TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITY AND/OR POTENTIAL CONFLICTS WITH EXISTING UTILITIES. POTHOLING SHALL BE PERFORMED PRIOR TO INSTALLING ANY PROPOSED UTILITIES. CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

PRELIMINARY SHEET INDEX	
Sheet Number	Sheet Title
1 OF 2	PRELIMINARY SITE AND UTILITY PLAN
2 OF 2	GRADING AND DRAINAGE PLAN
NP-1	NATIVE PLANT PROTECTION PLAN
NP-2	NATIVE PLANT PROTECTION SPECS & DETAILS
LP-1	LANDSCAPE PLANTING PLAN
LP-2	LANDSCAPE PLANTING SPECIFICATIONS & DETAILS

LEGEND

BUILDING LINE
EXISTING CURB TO REMAIN
PROPOSED CURB
PROPOSED LANDSCAPING
PROPOSED ASPHALT
PROPOSED CONCRETE

PRELIMINARY NOT FOR CONSTRUCTION

Title: PRELIMINARY SITE AND UTILITY PLAN
SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

For:

LICENSED PROFESSIONAL ENGINEER — HAL P. GRUBB — 19978 — CIVIL — STATE OF CALIFORNIA — Not for Construction

Scale: Horizontal 1" = 20' Vertical N/A

Designed RG | Drawn LW | Checked AEM | Approved HPG | Date 4/23/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 23690 | Sheet 1 OF 2

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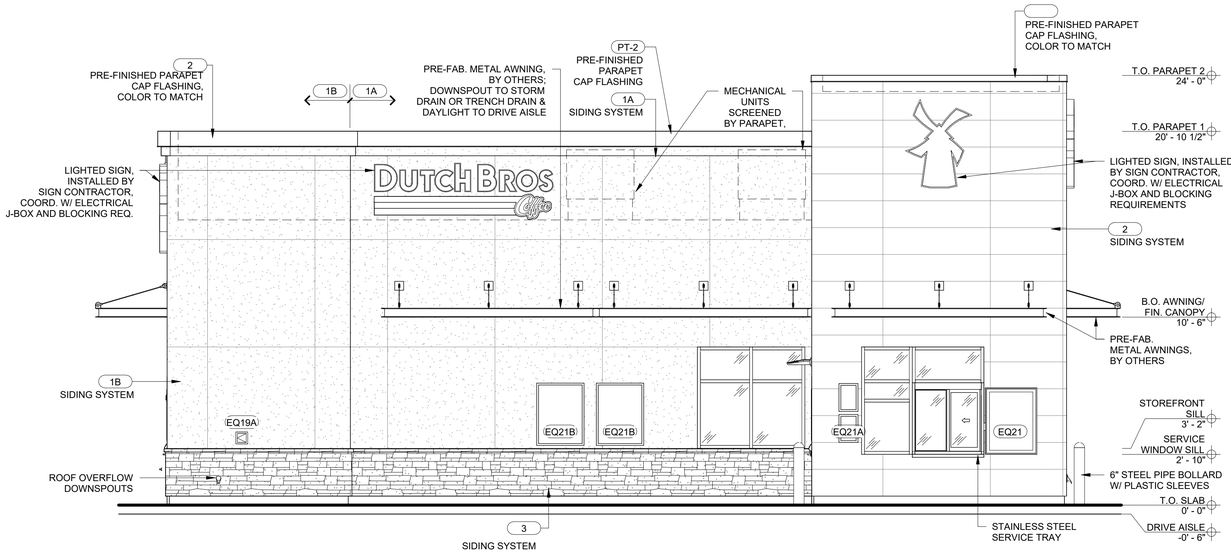
EXTERIOR FINISH SCHEDULE

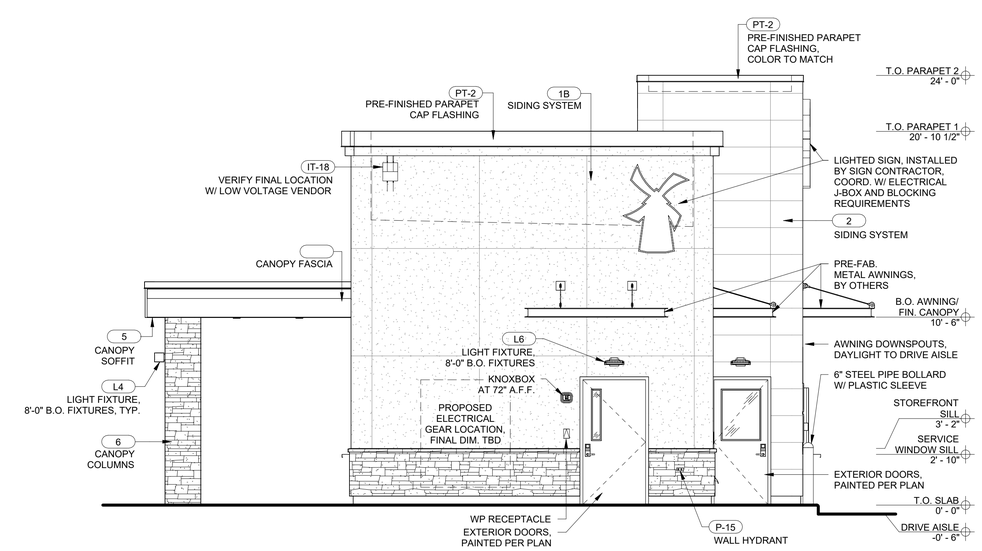
NOTE: GC TO PROVIDE 3"x2" SMOOTH DOWNSPOUTS AND ALL NECESSARY ADAPTORS AT AWNING AND CANOPY LOCATION; COLOR: BLDG DB DARK GRAY

ID TAG	MATERIAL	MANUFACTURER	MODEL	REMARKS
ZONE 1 (BODY)				
1A	STUCCO	DRYVIT	CCP-2 SYSTEM, SANDPEBBLE FINE FINISH; REVEALS AS SHOWN	PAINTED; COLOR: CLASSIC LIGHT BUFF SW0050
1B	STUCCO	DRYVIT	CCP-2 SYSTEM, SANDPEBBLE FINE FINISH; REVEALS AS SHOWN	PAINTED; COLOR: RENWICK BEIGE SW2805
ZONE 2 (TOWER)				
2	FIBER CEMENT SIDING	NICHIHA	ILLUMINATION, AWP 1818 w/ FACTORY PANEL CORNERS	COLOR: BLDG DB BLUE
ZONE 3 (BASE)				
3	STONE VENEER	ELDORADO STONE	CLIFFSTONE, BANFF SPRINGS	COLOR: PER MFR.
ZONE 4 (FRAMED CANOPY)				
4	FASCIA	WESTERN STATES METAL ROOFING	T-GROOVE, 10"	3 SIDES; COLOR: BLDG DB DARK GRAY
5	SOFFIT	HEWN ELEMENTS	NATURAL NORTHWESTERN SPRUCE	1x6, T&G, 1/8" REVEAL, SEALED
6	STONE VENEER	ELDORADO STONE	CLIFFSTONE, BANFF SPRINGS	COLOR: PER MFR.



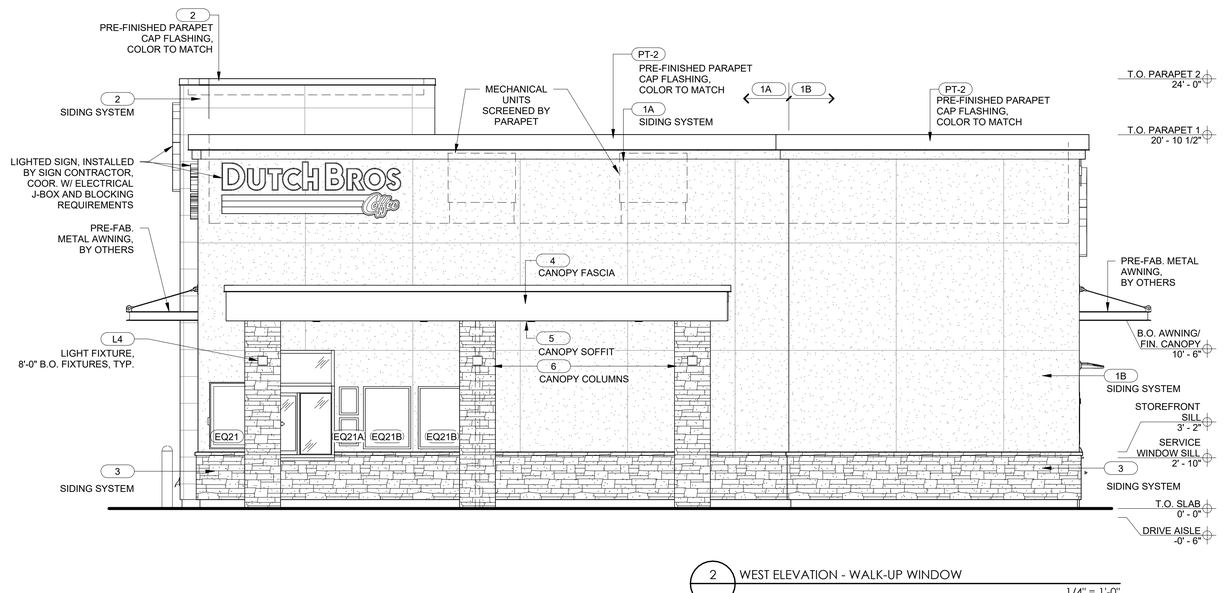
4 EAST ELEVATION - DRIVE-THRU WINDOW

1/4" = 1'-0"



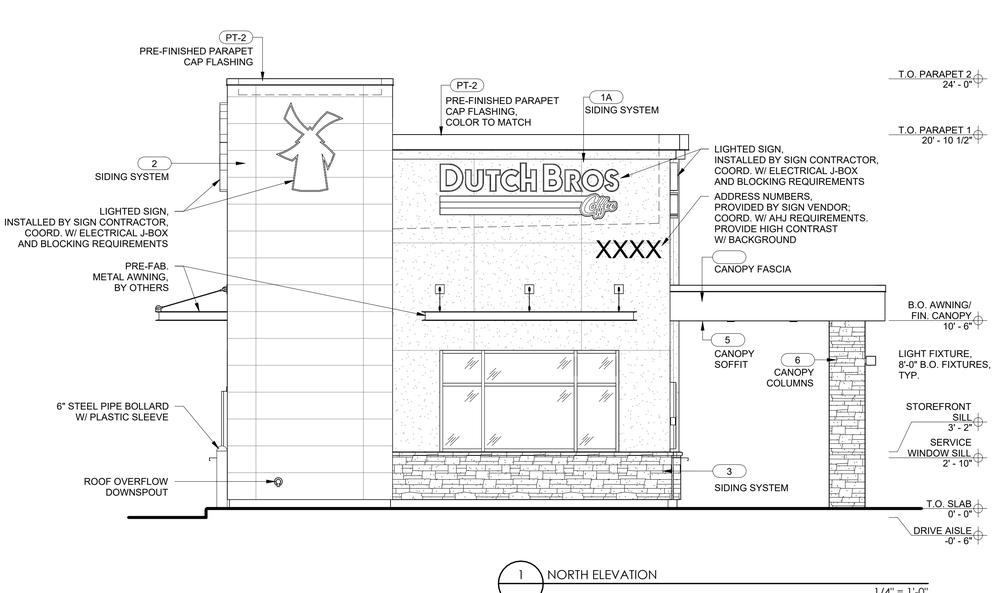
3 SOUTH ELEVATION

1/4" = 1'-0"



2 WEST ELEVATION - WALK-UP WINDOW

1/4" = 1'-0"



1 NORTH ELEVATION

1/4" = 1'-0"

DUTCH BROS COFFEE

GNICH ARCHITECTURE STUDIO
AN OREGON LIMITED LIABILITY COMPANY

1001 SE SANDY BLVD, SUITE 100
PORTLAND, OR 97214
V. 503.552.9079
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WWW.GNICHARCH.COM

04/24/25

Project No: CA3714

Dutch Bros Coffee - New Freestanding Store
58121 29 Palms Hwy
Yucca Valley, CA 92284

For: Dutch Bros Coffee
110 SW 4th Street
Grants Pass, OR 97526

DB2550-A1SQ

ISSUED FOR DESIGN REVIEW:
04.24.2025

REV	DATE	DESCRIPTION

SHEET NAME:

BUILDING ELEVATIONS

SHEET NUMBER:

DRP2.0

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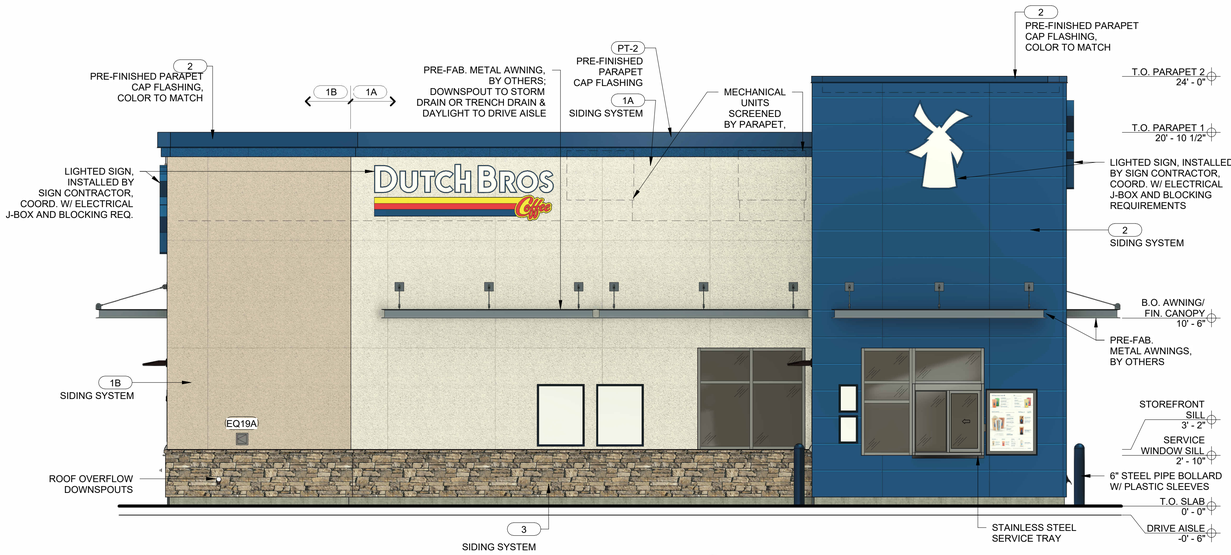

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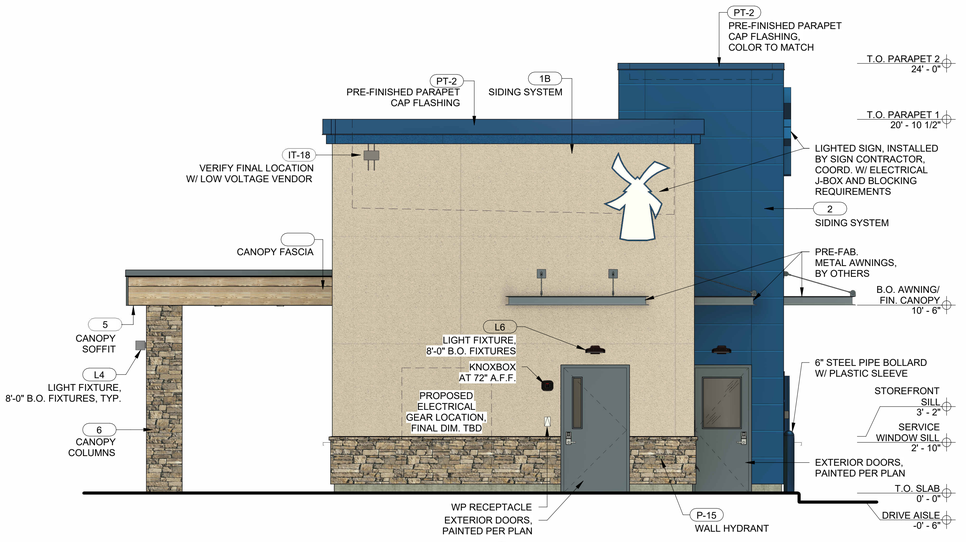

3 SOUTH ELEVATION

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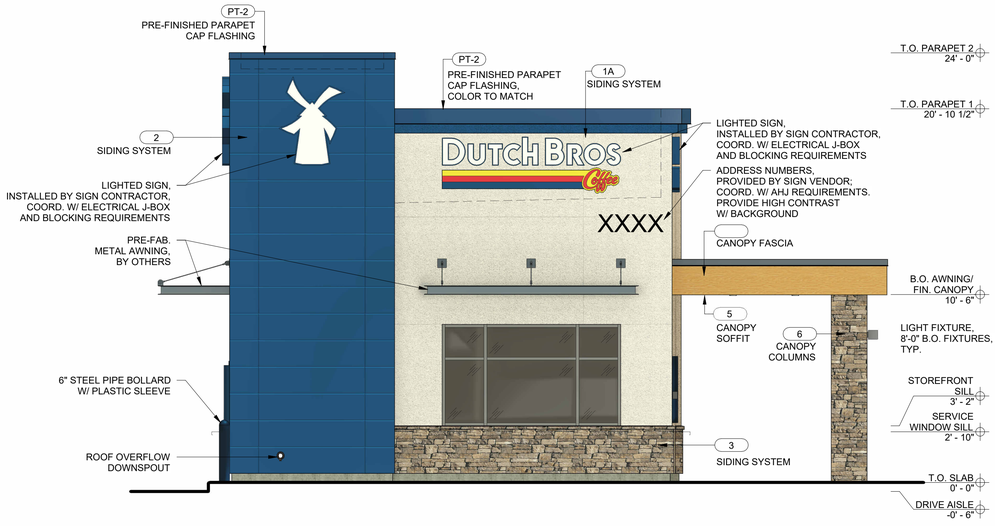
2 WEST ELEVATION - WALK-UP WINDOW

1/4" = 1'-0"



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DUTCH BROS COFFEE

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SHEET NAME:

BUILDING ELEVATIONS COLOR

SHEET NUMBER:

DRP3.0

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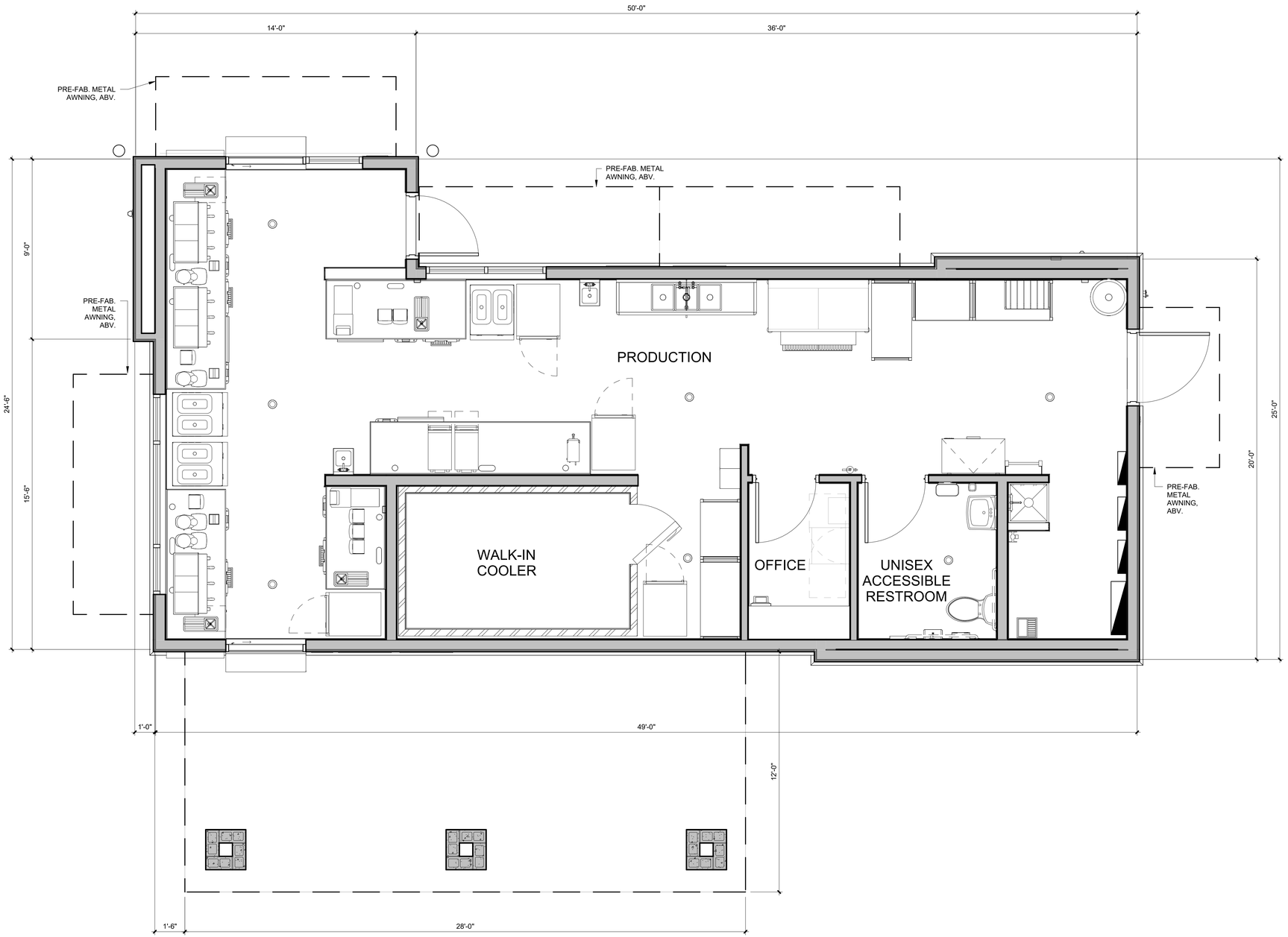

1 SCHEMATIC PLAN
3/8" = 1'-0"

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DUTCH BROS Coffee

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SHEET NAME:

PLAN

SHEET NUMBER:

DRP1.0

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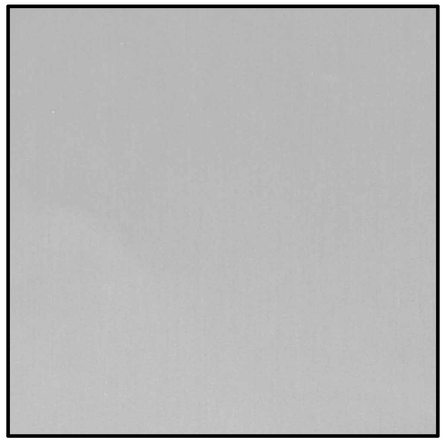
FIBER CEMENT BOARD
MANUFACTURER: NICHIHA
PROFILE: ILLUMIINIATION
COLOR: BLDG DB BLUE

STUCCO SYSTEM
MANUFACTURER: DRYVIT
PROFILE: CCP-2 SYSTEM,
SANDPEBBLE FINE E FINISH
COLOR: PAINTED, CLASSIC LIGHT BUFF

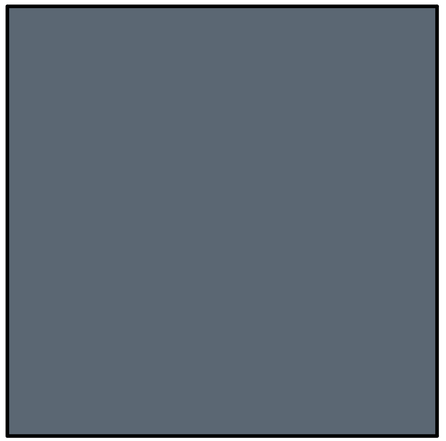
STUCCO SYSTEM
MANUFACTURER: DRYVIT
PROFILE: CCP-2 SYTEM,
SANDPEBBLE FINE E FINISH
COLOR: PAINTED, RENWICK BEIGE

CULTURED STONE
MANUFACTURER: ELDORADO STONE
PROFILE: CLIFFSTONE - MONTECITO
COLOR: PER MFR.

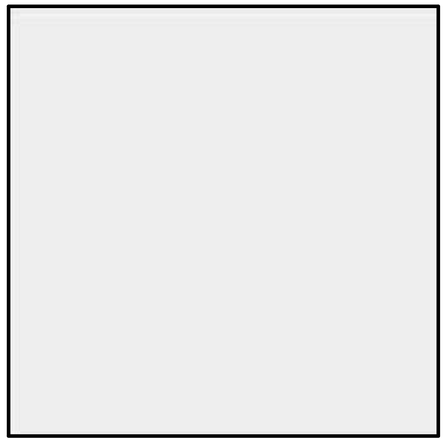
CANOPY SOFFIT
MANUFACTURER: HEWN
PROFILE: NW SPRUCE
NATURAL & SEALED
COLOR: PER MFR.



WINDOW SYSTEM
MANUFACTURER: KAWNEER OR SIMILAR
PROFILE: CLEAR ANODIZED ALUMINUM
FINISH: CLEAR NO 14 / 17



AWNINGS & DOORS - PAINT
MANUFACTURER: SHERWIN-WILLIAMS
COLOR: BLDG DB GRAY DARK



ROOFING MATERIAL
MANUFACTURER: DURO-LAST
DL-60 - 60 MIL
COLOR: WHITE

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04.24.2025

REV	DATE	DESCRIPTION

SHEET NAME:

MATERIAL BOARD

SHEET NUMBER:

DRP6.0

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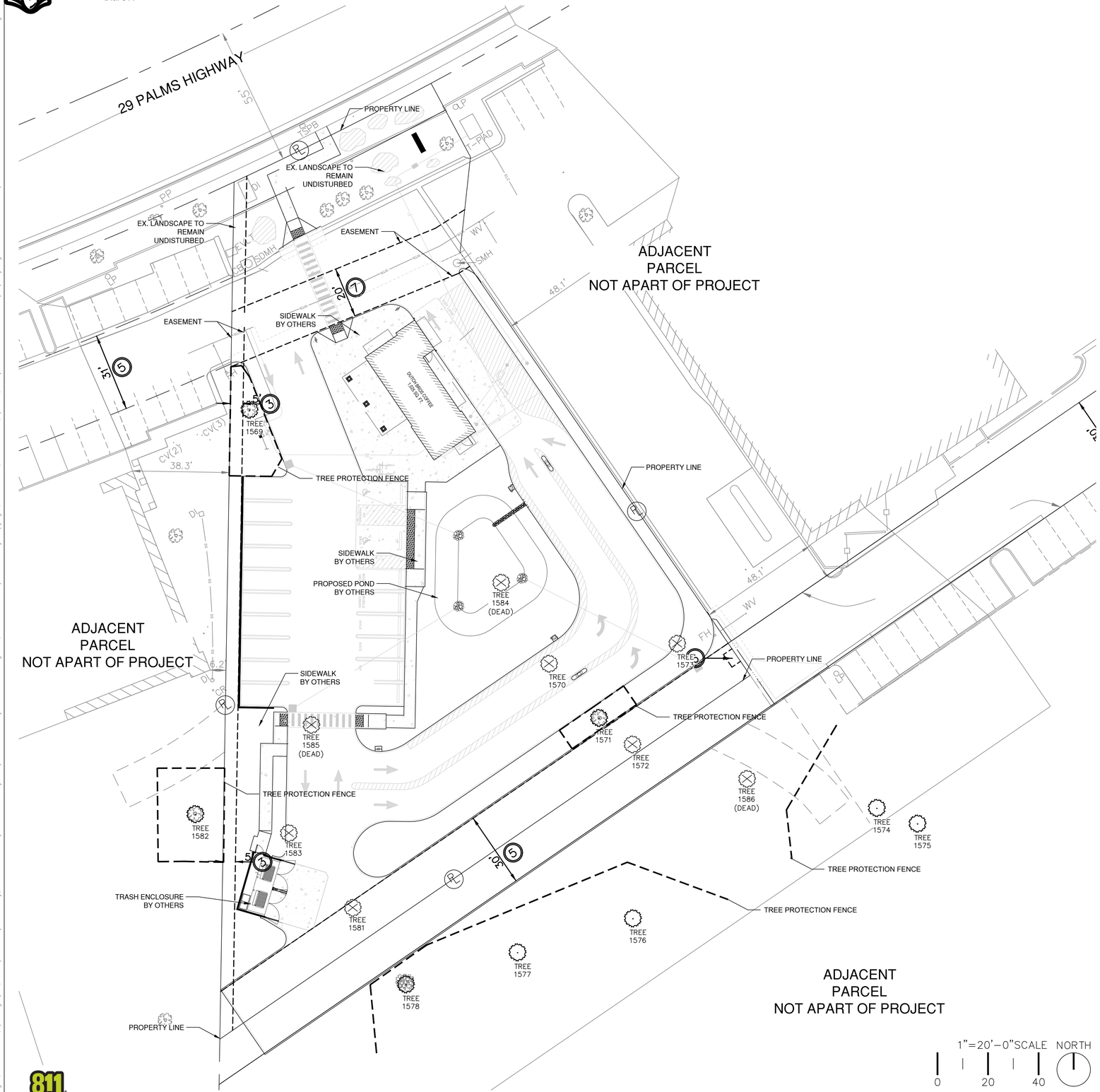
DUTCH BROS. COFFEE - CA3714 - YUCCA VALLEY, CA



PROJECT TEAM

LANDSCAPE ARCHITECT:

EVERGREEN DESIGN GROUP
17875 VON KARMAN, STE 150
IRVINE, CA 92614
800-680-6630
WWW. EVERGREENDESIGNGROUP.COM
CONTACT: BLAKE TOMILLOSO-RHINEHART, PLA
EMAIL: BLAKE@EVERGREENDESIGNGROUP.COM

ARBORIST
DESERT ARBORIST SERVICES
PO BOX 2509
PALM SPRINGS, CA 92263
CONTACT: WARREN MILLER #WE-2001A
T: 760.325.5239
E. ARBORTECH_SERVICES@YAHOO.COM
W. WWW.DESERTARBORISTSERVICES.COM

NATIVE PLANT & TREE CALCULATIONS

NATIVE TREES ON-SITE:	16 TREES
NATIVE TREES - DEAD TO BE REMOVED:	3 TREES
NATIVE TREES - TO BE TRANSPLANTED:	0 TREES
NATIVE TREES - TO BE REMOVED:	5 TREES
NATIVE TREES - TO REMAIN (PROTECT IN PLACE):	8 TREES

LEGEND

EXISTING TREES TO BE PROTECTED IN PLACE

TREE PROTECTION FENCE

EXISTING TREE TO BE REMOVED

NATIVE PLANT DOCUMENTATION SURVEY TABLE

Joshua Tree Survey Data						
Waypoint	Tree Type	Quantity	Diameter	Height	Health	DISPOSITION
1569	Joshua Tree	1	9.5"	22ft	Good	REMAIN
1570	Joshua Tree	1	10"	15ft	Good	REMOVE
1571	Joshua Tree	1	16"	22ft	Good	REMAIN
1572	Joshua Tree	2	14"	18ft	Good	REMOVE
1573	Joshua Tree	1	16.5"	18ft	Good	REMOVE
1574	Joshua Tree	1	7.5"	16ft	Good	REMAIN
1575	Joshua Tree	2	7",1.5"	10ft	Good	REMAIN
1576	Joshua Tree	1	14"	20ft	Good	REMAIN
1577	Joshua Tree	1	16"	14ft	Good	REMAIN
1578	Joshua Tree	3	8",3",7"	9/2/6ft	Good	REMAIN
1581	Joshua Tree	3	6",3.5",2.5"	6/3.5/2.5ft	Good	REMOVE
1582	Joshua Tree	1	6"	8ft	Fair	REMAIN
1583	Joshua Tree	1	13"	18ft	Good	REMOVE
1584	Joshua Tree	Dead	Dead	Dead	Dead	REMOVE
1585	Joshua Tree	Dead	Dead	Dead	Dead	REMOVE
1586	Joshua Tree	Dead	Dead	Dead	Dead	REMOVE

NOTE: TREE PROTECTION FOR ANY PRESERVED OR RELOCATED TREES MUST BE PROVIDED PER DETAILS AND SPECIFICATIONS ON SHEET NP-2. THESE MUST BE UP PRIOR TO THE COMMENCEMENT OF ANY WORK AND MAINTAINED THROUGHOUT CONSTRUCTION.

NOTE: ALL TREE TRIMMING MUST BE APPROVED BY THE OWNER AND LOCAL JURISDICTION PRIOR TO COMMENCEMENT OF WORK. ALL TREE TRIMMING MUST BE DONE BY AN ISA CERTIFIED ARBORIST IN ACCORDANCE WITH LOCAL TREE PRESERVATION ORDINANCE.

PRELIMINARY NOT FOR CONSTRUCTION

National Presence. Local Expertise.
EVERGREEN DESIGN GROUP
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www.evergreendesigngroup.com
LANDSCAPE ARCHITECTURE
LAND PLANNING · IRRIGATION DESIGN

Title: NATIVE PLANT PROTECTION PLAN
SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

For: DUTCH BROS

LICENSED LANDSCAPE ARCHITECT — BLAKE TOMILLOSO-RHINEHART — No. 6133 — 8.31.26 — 4.21.2025 — STATE OF CALIFORNIA

Scale: Horizontal Vertical

Designed Drawn Checked Approved Date

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 23690

Sheet NP-1

P:\Shared\Projects\2025\Dutch Bros\DUTCH BROS - YUCCA VALLEY CA - 29 PALMS HWY & BALSA AVE\DutchBros-YuccaValleyCA_LP.dwg 4/21/2025 1:22 PM BLAKE

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DUTCH BROS. COFFEE - CA3714 - YUCCA VALLEY, CA

TREE PROTECTION SPECIFICATIONS

MATERIALS

1. FABRIC: 4 FOOT HIGH ORANGE PLASTIC FENCING AS SHOWN ON THE PLANS AND SHALL BE WOVEN WITH 2 INCH MESH OPENINGS SUCH THAT IN A VERTICAL DIMENSION OF 23 INCHES ALONG THE DIAGONALS OF THE OPENINGS THERE SHALL BE AT LEAST 7 MESHES.
2. POSTS: POSTS SHALL BE A MINIMUM OF 72 INCHES LONG AND STEEL "T" SHAPED WITH A MINIMUM WEIGHT OF 1.3 POUNDS PER LINEAR FOOT.
3. TIE WIRE: WIRE FOR ATTACHING THE FABRIC TO THE T-POSTS SHALL BE NOT LESS THAN NO. 12 GAUGE GALVANIZED WIRE.
4. USED MATERIALS: PREVIOUSLY-USED MATERIALS, MEETING THE ABOVE REQUIREMENTS AND WHEN APPROVED BY THE OWNER, MAY BE USED.

CONSTRUCTION METHODS

1. ALL TREES AND SHRUBS SHOWN TO REMAIN WITHIN THE PROXIMITY OF THE CONSTRUCTION SITE SHALL BE PROTECTED PRIOR TO BEGINNING ANY DEVELOPMENT ACTIVITY.
2. EMPLOY THE SERVICES OF AN ISA (INTERNATIONAL SOCIETY OF ARBORICULTURE) CERTIFIED ARBORIST AND OBTAIN ALL REQUIRED PERMITS TO PRUNE THE EXISTING TREES FOR CLEANING, RAISING AND THINNING, AS MAY BE REQUIRED.
3. PROTECTIVE FENCING SHALL BE ERECTED OUTSIDE THE CRITICAL ROOT ZONE (CRZ, EQUAL TO 1' FROM THE TRUNK FOR EVERY 1" OF DBH) AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE LANDSCAPE CONSULTANT AND/OR CITY ARBORIST, AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS. FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. TREES IN CLOSE PROXIMITY SHALL BE FENCED TOGETHER, RATHER THAN INDIVIDUALLY.
4. PROTECTIVE FENCE LOCATIONS IN CLOSE PROXIMITY TO STREET INTERSECTIONS OR DRIVES SHALL ADHERE TO THE APPLICABLE JURISDICTION'S SIGHT DISTANCE CRITERIA.
5. THE PROTECTIVE FENCING SHALL BE ERECTED BEFORE SITE WORK COMMENCES AND SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PHASE.
6. THE INSTALLATION POSTS SHALL BE PLACED EVERY 6 FEET ON CENTER AND EMBEDDED TO 18 INCHES DEEP. MESH FABRIC SHALL BE ATTACHED TO THE INSTALLATION POSTS BY THE USE OF SUFFICIENT WIRE TIES TO SECURELY FASTEN THE FABRIC TO THE T-POSTS TO HOLD THE FABRIC IN A STABLE AND UPRIGHT POSITION.
7. WITHIN THE CRZ:
   a. DO NOT CLEAR, FILL OR GRADE IN THE CRZ OF ANY TREE.
   b. DO NOT STORE, STOCKPILE OR DUMP ANY JOB MATERIAL, SOIL OR RUBBISH UNDER THE SPREAD OF THE TREE BRANCHES.
   c. DO NOT PARK OR STORE ANY EQUIPMENT OR SUPPLIES UNDER THE TREE CANOPY.
   d. DO NOT SET UP ANY CONSTRUCTION OPERATIONS UNDER THE TREE CANOPY (SUCH AS PIPE CUTTING AND THREADING, MORTAR MIXING, PAINTING OR LUMBER CUTTING).
   e. DO NOT NAIL OR ATTACH TEMPORARY SIGNS METERS, SWITCHES, WIRES, BRACING OR ANY OTHER ITEM TO THE TREES.
   f. DO NOT PERMIT RUNOFF FROM WASTE MATERIALS INCLUDING SOLVENTS, CONCRETE WASHOUTS, ASPHALT TACK COATS (MC-30 OIL), ETC. TO ENTER THE CRZ. BARRIERS ARE TO BE PROVIDED TO PREVENT SUCH RUNOFF SUBSTANCES FROM ENTERING THE CRZ WHENEVER POSSIBLE, INCLUDING IN AN AREA WHERE RAIN OR SURFACE WATER COULD CARRY SUCH MATERIALS TO THE ROOT SYSTEM OF THE TREE.
8. ROUTE UNDERGROUND UTILITIES TO AVOID THE CRZ. IF DIGGING IS UNAVOIDABLE, BORE UNDER THE ROOTS, OR HAND DIG TO AVOID SEVERING THEM.
9. WHERE EXCAVATION IN THE VICINITY OF TREES MUST OCCUR, SUCH AS FOR IRRIGATION INSTALLATION, PROCEED WITH CAUTION, AND USING HAND TOOLS ONLY.
10. THE CONTRACTOR SHALL NOT CUT ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATION OCCURS NEAR EXISTING TREES. ALL ROOTS LARGER THAN ONE INCH IN DIAMETER ARE TO BE CUT CLEANLY. FOR OAKS ONLY, ALL WOUNDS SHALL BE PAINTED WITH WOUND SEALER WITHIN 30 MINUTES
11. REMOVE ALL TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS BY HAND.
12. TREES DAMAGED OR KILLED DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED AT THE CONTRACTOR'S EXPENSE AND TO THE PROJECT OWNER'S AND LOCAL JURISDICTION'S SATISFACTION.
13. ANY TREE REMOVAL SHALL BE APPROVED BY THE OWNER AND LOCAL JURISDICTION PRIOR TO ITS REMOVAL, AND THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS FOR SUCH ACTIVITIES.
14. COVER EXPOSED ROOTS AT THE END OF EACH DAY WITH SOIL, MULCH OR WET BURLAP.
15. IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DUING CONSTRUCTION AND WHERE HEAVY TRAFFIC IS ANTICIPATED, COVER THE SOIL WITH EIGHT INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. THIS EIGHT INCH DEPTH OF MULCH SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
16. WATER ALL TREES IMPACTED BY CONSTRUCTION ACTIVITIES, DEEPLY ONCE A WEEK DURING PERIODS OF HOT DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
17. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.
18. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREE PROTECTION FENCING WHEN ALL THREATS TO THE EXISTING TREES FROM CONSTRUCTION-RELATED ACTIVITIES HAVE BEEN REMOVED.

TREE PROTECTION GENERAL NOTES

(A) PRIOR TO THE LAND CLEARING STAGE OF DEVELOPMENT, THE CONTRACTOR SHALL CLEARLY MARK ALL PROTECTED TREES FOR WHICH A TREE REMOVAL PERMIT HAS NOT BEEN ISSUED AND SHALL ERECT BARRIERS FOR THE PROTECTION OF THE TREES ACCORDING TO THE FOLLOWING:
(1) AROUND AN AREA AT OR GREATER THAN A SIX-FOOT RADIUS OF ALL SPECIES OF MANGROVES AND PROTECTED CABBAGE PALMS;
(2) AROUND AN AREA AT OR GREATER THAN THE FULL DRIPLINE OF ALL PROTECTED NATIVE PINES;
(3) AROUND AN AREA AT OR GREATER THAN TWO-THIRDS OF THE DRIPLINE OF ALL OTHER PROTECTED SPECIES.

(B) NO PERSON SHALL ATTACH ANY SIGN, NOTICE OR OTHER OBJECT TO ANY PROTECTED TREE OR FASTEN ANY WIRES, CABLES, NAILS OR SCREWS TO ANY PROTECTED TREE IN ANY MANNER THAT COULD PROVE HARMFUL TO THE PROTECTED TREE, EXCEPT AS NECESSARY IN CONJUNCTION WITH ACTIVITIES IN THE PUBLIC INTEREST.

(C) DURING THE CONSTRUCTION STAGE OF DEVELOPMENT, THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE CLEANING OF EQUIPMENT OR MATERIAL WITHIN THE OUTSIDE PERIMETER OF THE CROWN (DRIPLINE) OR ON THE NEARBY GROUND OF ANY TREE OR GROUP OF TREES WHICH IS TO BE PRESERVED. WITHIN THE OUTSIDE PERIMETER OF THE CROWN (DRIPLINE) OF ANY TREE OR ON NEARBY GROUND, THE CONTRACTOR SHALL NOT CAUSE OR PERMIT STORAGE OF BUILDING MATERIAL AND/OR EQUIPMENT, OR DISPOSAL OF WASTE MATERIAL SUCH AS PAINTS, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR ANY OTHER MATERIAL HARMFUL TO THE LIFE OF THE TREE.

(D) NO PERSON SHALL PERMIT ANY UNNECESSARY FIRE OR BURNING WITHIN 30 FEET OF THE DRIPLINE OF A PROTECTED TREE.

(E) ANY LANDSCAPING ACTIVITIES WITHIN THE BARRIER AREA SHALL BE ACCOMPLISHED WITH HAND LABOR.

(F) PRIOR TO ISSUING A CERTIFICATE OF OCCUPANCY OR COMPLIANCE FOR ANY DEVELOPMENT, BUILDING OR STRUCTURE, ALL TREES DESIGNATED TO BE PRESERVED THAT WERE DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH TREES OF EQUIVALENT DIAMETER AT BREAST HEIGHT TREE CALIPER AND OF THE SAME SPECIES AS SPECIFIED BY THE TOWN OF YUCCA VALLEY NATIVE PLANT ORDINANCE, BEFORE OCCUPANCY OR USE, UNLESS APPROVAL FOR THEIR REMOVAL HAS BEEN GRANTED UNDER PERMIT.

(G) THE TOWN OF YUCCA VALLEY MAY CONDUCT PERIODIC INSPECTIONS OF THE SITE DURING LAND CLEARANCE AND CONSTRUCTION.

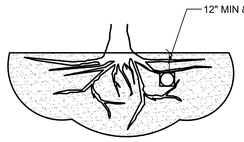
(H) IF, IN THE OPINION OF THE TOWN OF YUCCA VALLEY, DEVELOPMENT ACTIVITIES WILL SO SEVERELY STRESS SLASH PINES OR ANY OTHER PROTECTED TREE SUCH THAT THEY ARE MADE SUSCEPTIBLE TO INSECT ATTACK, PREVENTATIVE SPRAYING OF THESE TREES BY THE CONTRACTOR MAY BE REQUIRED.

TREE RELOCATION GUIDELINES

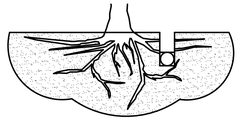
1. TREES SHALL NOT BE UNNECESSARILY DAMAGED DURING REMOVAL, TRANSPORT OR REPLANTING OF THE TREE.
2. IF THE TREE HAS A DORMANT PERIOD, THEY SHOULD BE TRANSPLANTED DURING THAT TIME. TREES SHOULD NOT BE TRANSPLANTED DURING PERIODS OF STRONG WINDS, DRY WINTER WINDS OR DURING DROUGHT.
3. ADEQUATE SPACES FOR ROOT AND CROWN DEVELOPMENT SHALL BE PROVIDED.
4. TREES SHALL BE ROOT AND CANOPY PRUNED IN ACCORDANCE WITH SOUND ARBORICULTURAL STANDARDS PRIOR TO TRANSPLANTING.
5. DURING AND FOLLOWING TRANSPLANTING, THE ROOT BALL AND TRUNK SHALL BE PROTECTED. THE ROOT BALL MUST BE KEPT MOIST AT ALL TIMES.
6. TRANSPLANTED TREES SHALL BE BRACED FOR A MINIMUM OF ONE (1) YEAR.
7. TRANSPLANTED TREES SHALL NOT BE FERTILIZED AT PLANTING TIME, BUT SHALL BE WATERED SUFFICIENTLY UNTIL THE TREE GROWTH IS REESTABLISHED.
8. ALL CROWN PRUNING SHALL BE DONE IN ACCORDANCE WITH "THE AMERICAN NATIONAL STANDARDS INSTITUTE A-300, TREE SHRUB AND OTHER WOODY PLANT MAINTENANCE-STANDARD PRACTICES", AND "Z-133.1 PRUNING, REPAIRING, MAINTAINING AND REMOVING TREES, AND CUTTING BRUSH-SAFETY REQUIREMENTS" OR PALM PRUNING IN ACCORDANCE WITH THE STANDARDS IN, RICHARD HARRIS, "ARBORICULTURE INTEGRATED MANAGEMENT OF LANDSCAPE TREES, SHRUBS AND VINES", AS AMENDED.
9. CONTRACTOR IS RESPONSIBLE FOR REGULAR WATERING AND MAINTENANCE OF TRANSPLANTED TREES DURING STORAGE PERIOD.

TREES THAT ARE MARKED TO BE PRESERVED ON A SITE PLAN AND FOR WHICH UTILITIES MUST PASS TROUGH THEIR ROOT PROTECTION ZONES MAY REQUIRE TUNNELING AS OPPOSED TO OPEN TRENCHES. THE DECISION TO TUNNEL WILL BE DETERMINED ON A CASE BY CASE BASIS BY THE ENGINEER.

TUNNELS SHALL BE DUG THROUGH THE ROOT PROTECTION ZONE IN ORDER TO MINIMIZE ROOT DAMAGE.



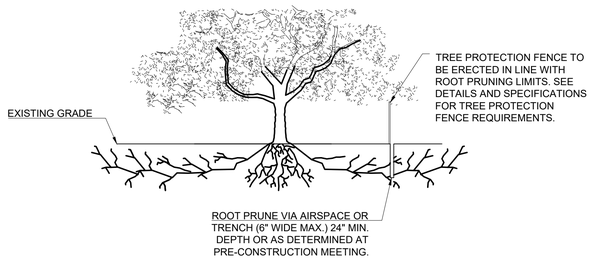
TUNNEL TO MINIMIZE ROOT DAMAGE (TOP) AS OPPOSED TO SURFACE-DUG TRENCHES IN ROOT PROTECTION ZONE WHEN THE 5' MINIMUM DISTANCE FROM TRUNK CAN NOT BE ACHIEVED.



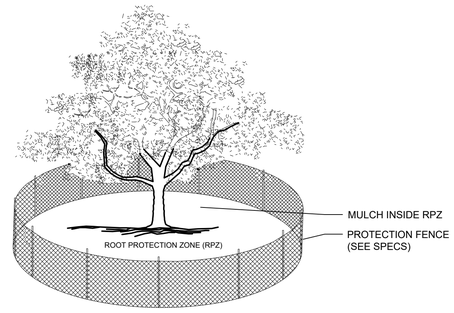
OPEN TRENCHING MAY BE USED IF EXPOSED TREE ROOTS DO NOT EXCEED 3" OR ROOTS CAN BE BENT BACK.

C BORING THROUGH ROOT PROTECTION ZONE
SCALE: NOT TO SCALE

NOTES
1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRE-CONSTRUCTION MEETING.
2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRE-CONSTRUCTION MEETING AND FLAGGED PRIOR TO ROOT PRUNING.
3. EXACT LOCATION OF ROOT PRUNING SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FORESTRY INSPECTOR.
4. TRENCH SHOULD BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PER PLAN OR BY THE FORESTRY INSPECTOR.
5. ROOTS SHALL BE CLEANLY CUT USING VIBRATORY KNIFE OR OTHER ACCEPTABLE EQUIPMENT. ROT PRUNING METHODS AND MEANS MUST BE IN ACCORDANCE WITH ANSI STANDARD A3000.
6. ALL PRUNING MUST BE EXECUTED AT LOD SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FORESTRY INSPECTOR.
7. SUPPLEMENTAL WATERING MAY BE REQUIRED FOR ROOT PRUNED TREES THROUGHOUT THE GROWING SEASON DURING CONSTRUCTION AND SUBSEQUENT WARRANTY AND MAINTENANCE PERIOD.

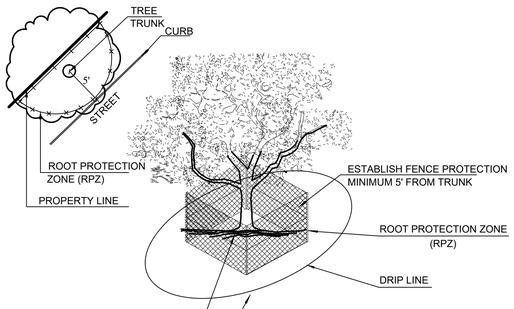


D ROOT PRUNING DETAIL
SCALE: NOT TO SCALE



NOTES:
1. THE FENCING LOCATION SHOWN ABOVE IS DIAGRAMATIC ONLY AND WILL CONFORM TO THE DRIP LINE AND BE LIMITED TO PROJECT BOUNDARY. WHERE MULTIPLE ADJACENT TREES WILL BE ENCLOSED BY FENCING, THE FENCING SHALL BE CONTINUOUS AROUND ALL TREES.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

A TREE PROTECTION FENCE
SCALE: NOT TO SCALE



NOTES:
1. OPTION USED FOR TIGHT CONSTRUCTION AREAS OR WHEN CONSTRUCTION OCCURS IN ROOT PROTECTION ZONE.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

B TREE PROTECTION FENCE - TIGHT CONSTRUCTION
SCALE: NOT TO SCALE

PRELIMINARY NOT FOR CONSTRUCTION

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National Presence. Local Expertise.
EVERGREEN DESIGN GROUP
800.680.6630
www.evergreendesigngroup.com
LANDSCAPE ARCHITECTURE
LAND PLANNING IRRIGATION DESIGN

Title: NATIVE PLANT PROTECTION SPECS & DETAILS
SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

DUTCH BROS COFFEE

For:

LICENSED LANDSCAPE ARCHITECT — 5854 — 8.31.26 — 4.21.2025 — STATE OF CALIFORNIA

Scale: Horizontal Vertical

Designed Drawn Checked Approved Date

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 23690

Sheet NP-2

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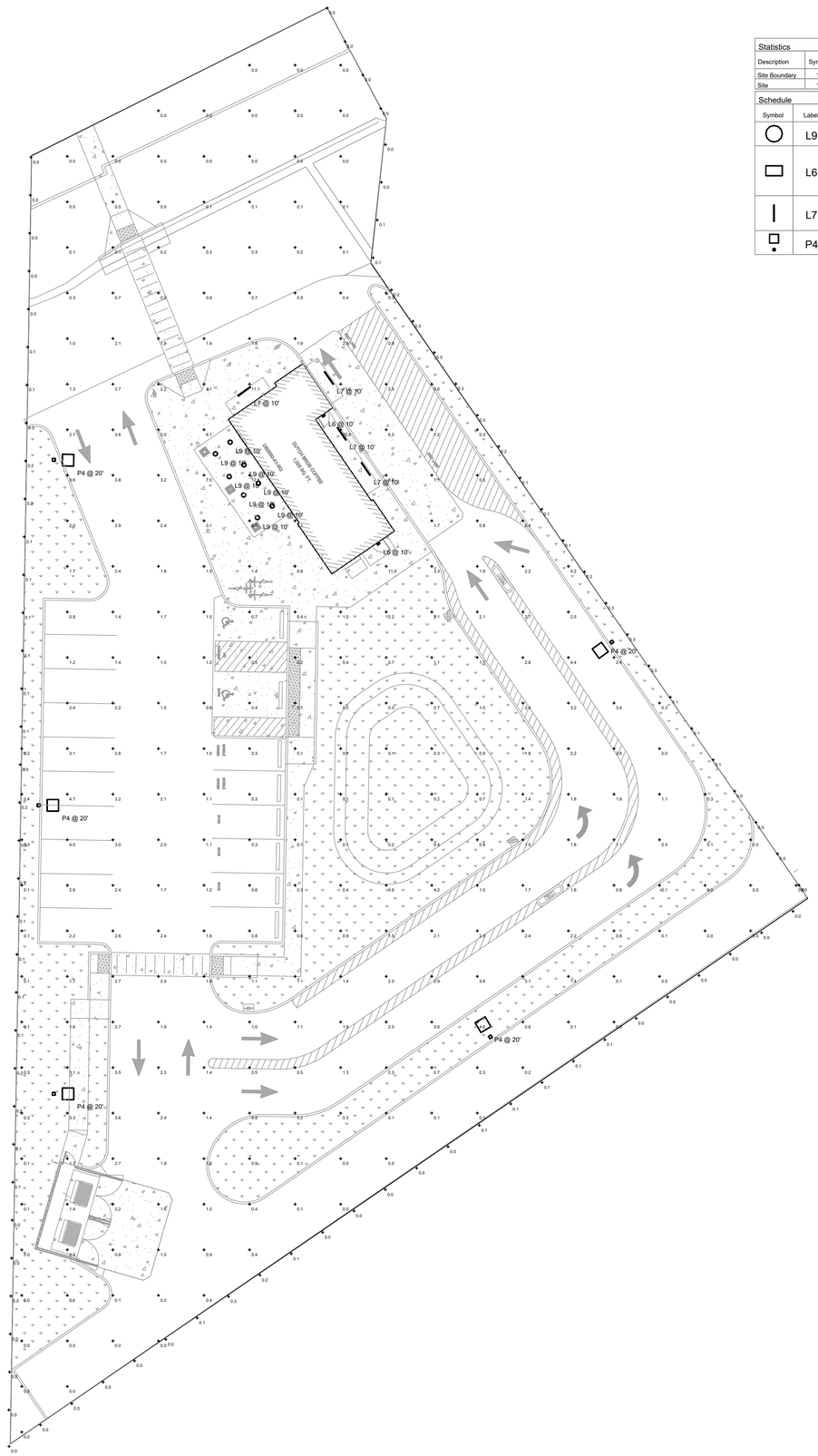
P:\Shared\Projects\2025\Dutch Bros\DUTCH BROS - YUCCA VALLEY CA - 29 PALMS HWY & BALSA AVE\DutchBros-YuccaValleyCA_LP.dwg 4/21/2025 1:22 PM BLAKE



Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Site Boundary	+	0.1 fc	0.3 fc	0.0 fc	N/A	N/A
Site	+	1.5 fc	25.8 fc	0.0 fc	N/A	N/A

Schedule

Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
○	L9	8	DMF LIGHTING	DRD5S-4R-10930	DRD5S-4R-10930	1	1015	0.93	11.8
▭	L6	2	RAB LIGHTING INC.	WPLED26-WPLED26/D10 (WALLPACK) - ALED26-ALED26/D10 (AREA LIGHTER)	CAST FINNED METAL HOUSING, MACHINED METAL HEAT SINK, 1 CIRCUIT BOARD WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SEMI-SPECULAR FINISH, CLEAR FLAT GLASS LENS IN CAST BROWN PAINTED METAL FRAME.	1	3474	0.93	30
|	L7	4	Self	WPLED26-WPLED26/D10 (WALLPACK) - ALED26-ALED26/D10 (AREA LIGHTER)	CROWN-L90-277V 830_BA110	1	4200	0.93	40
□•	P4	5	NLS Lighting	NV-1-T4-48L-1-40K-UNV--HSS	T4 OPTICS WITH BLACK HSS	1	9674	0.93	156

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GNICH ARCHITECTURE STUDIO
AN OREGON LIMITED LIABILITY COMPANY

1001 SE SANDY BLVD, SUITE 100
PORTLAND, OR 97214
V. 503.552.9079
F. 503.241.7055
WWW.GNICHARCH.COM

04/24/25

Project No: CA3714

Dutch Bros Coffee - New Freestanding Store
58121 29 Palms Hwy
Yucca Valley, CA 92284
For: Dutch Bros Coffee
110 SW 4th Street
Grants Pass, OR 97526

DB2550-A1SQ

ISSUED FOR DESIGN REVIEW:
04.24.2025

REV	DATE	DESCRIPTION

SHEET NAME:

PHOTOMETRIC PLAN

SHEET NUMBER:

DRP4.0

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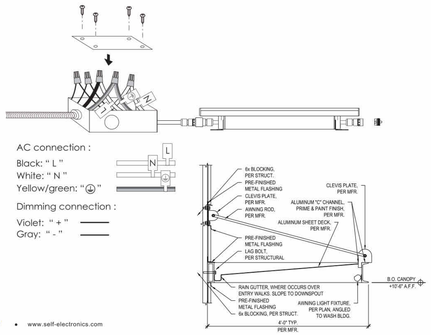
Imperial Lighting | L7 | Job: Dutch Brothers Coffee | Descr: Canopy 6' light

Outdoor Cove Lighting
CROWN

- Quick connection
- Dimmable, 1-10V dimming to 10%-100%
- Linkable, max. linkable length: 72' @120VAC, 156' @277VAC
- IP rating: IP66 (for wet locations)
- Lockable, precision aiming adjustment: ±82.3° vertical rotation
- Lifetime: 50,000hrs (to+95°F, 35°C)
- Ta: -13°F~122°F (-25°C ~ 50°C)
- Material: Aluminum alloy
- 10W/ft, 1050lm/ft

Dimensions: (inches/mm)

Wiring Diagram



Outdoor Cove Lighting
CROWN

How to order using our catalog numbers:
Example: CROWN-1230K110SS

Series	Length	Color Temp	Beam Angle	Finish	Installation
CROWN	12 - 11.8"(300mm) 47 - 47"(1120mm) 70 - 70"(1778mm)	30K - 3000K 40K - 4000K	110 - 110°	S - Silver	S - Screw Mounting

Catalog No.	Model	Description				
		Rated Input	Ra	Wattage	Luminous Flux (TYP@4000K)	Included
CROWN-1230K110SS	CROWN-L24-277V	120-277VAC	85	10W	1050 lm	1 pc LED fixture 2pcs Screws 1pc End cap
CROWN-1240K110SS						
CROWN-4730K110SS	CROWN-L90-277V	120-277VAC	85	40W	4200 lm	
CROWN-4740K110SS						
CROWN-7030K110SS	CROWN-L144-277V	120-277VAC	85	60W	6300 lm	
CROWN-7040K110SS						

How to choose your driver & cables:

Catalog No.	Description	Photo
IC-CROWN-59	Input cable 59"	

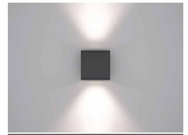
Optional:

Catalog No.	Description	Photo
SC-CROWN-12	Soft connector 12"	
TK-CROWN-79	Track 79", including 3pcs screws	

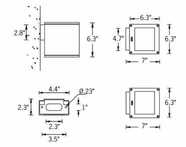
UMT-31416-DBNA | Matrix 3 Surface | L4

7144 NE Progress Ct | T.503.645.0500
Hillsboro,Oregon 97124 | F.503.645.8100
www.ligmanlightingusa.com

LIGMAN LIGHTING USA

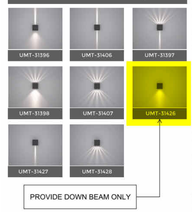


Length - 7" | Height - 6.3" | Weight 4.8 lbs
IP65 • Suitable For Wet Locations
IK04 • Impact Resistant (Vandal Resistant)



Mounting Detail

Matrix Product Family



Construction

Aluminum
Less than 0.1% copper content – Marine Grade 6060 extruded & LM6 Aluminum High Pressure die casting provides excellent mechanical strength , clean detailed product lines and excellent heat dissipation.

Pre paint
8 step degrease and phosphate process that includes deoxidizing and etching as well as a zinc and nickel phosphate process before product painting.

Memory Retentive -Silicon Gasket
Provided with special injection molded "fit for purpose" long life high temperature memory retentive silicon gaskets. Maintains the gaskets exact profile and seal over years of use and compression.

Thermal management
LM6 Aluminum is used for its excellent mechanical strength and thermal dissipation properties in low and high ambient temperatures. The superior thermal heat sink design by Ligman used in conjunction with the driver, controls thermals below critical temperature range to ensure maximum luminous flux output, as well as providing long LED service life and ensuring less than 10% lumen depreciation at 50,000 hours.

Surge Suppression
Standard 10kv surge suppressor provided with all fixtures.

BUG Rating
B1 - U5 - G0

Finishing
All Ligman products go through an extensive finishing process that includes fettling to improve paint adherence.

Paint
UV Stabilized 4.9Mil thick powder coat paint and baked at 200 Deg C.
This process ensures that Ligman products can withstand harsh environments.
Rated for use in natatoriums.

Hardware
Provided Hardware is Marine grade 316 Stainless steel.

Anti Seize Screw Holes
Tapped holes are infused with a special anti seize compound designed to prevent seizure of threaded connections, due to electrolysis from heat, corrosive atmospheres and moisture.

Crystal Clear Low Iron Glass Lens
Provided with tempered, impact resistant crystal clear low iron glass ensuring no green glass tinge.

Optics & LED
Precise optic design provides exceptional light control and precise distribution of light. LED CRI > 80

Lumen - Maintenance Life
L80 /B10 at 50,000 hours (This means that at least 90% of the LED still achieve 80% of their original flux)

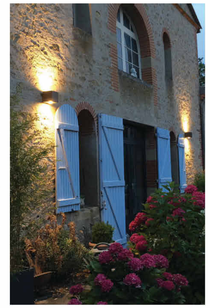
Square surface wall-mounted architectural lighting range. Family of lighting effects sanctioning imagination and inspiration to reign in designs.

A small profile wall mounted compact cubic luminaire with up and downward light distributions. The Matrix is designed with five light distribution options, namely narrow, medium, wide, very wide and spike.

The Matrix uses high efficiency, long life LEDs and is designed to illuminate the wall and surfaces in front of the wall, as well as light accents on vertical and horizontal surfaces. The Matrix is suitable for indoor and outdoor applications.

This luminaire is available with decorative spikes and can be used with various combinations of light distribution optics.

This luminaire can be mounted at different angles to produce interesting decorative lighting effects on the side of the building facade.
The standard Matrix is designed to mount over a 3" octagonal j-box, a 4" j-box cover plate is available upon request.



Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

UMT-31416-DBNA | Matrix 3 Surface

7144 NE Progress Ct | T.503.645.0500
Hillsboro,Oregon 97124 | F.503.645.8100
www.ligmanlightingusa.com

LIGMAN LIGHTING USA

PROJECT		DATE	
QUANTITY		TYPE	NOTE

ORDERING EXAMPLE || UMT - 31416 - 14/14w - W30 - 02 - 120/277v - Options

LAMP	BEAM	LED COLOR	FINISH COLOR	VOLTAGE
14/14w COB 1128 Lumens Down 1128 Lumens Up	N - Narrow 20° M - Medium 25° W - Wide 36° VW - Very Wide 74°	W27 - 2700K W30 - 3000K W35 - 3500K W40 - 4000K	01 - BLACK RAL 9011 02 - DARK GREY RAL 7043 03 - WHITE RAL 9003 04 - METALLIC SILVER RAL 9006 05 - MATTE SILVER RAL 9006 06 - LIGMAN BRONZE 07 - CUSTOM RAL	120/277v Other - Specify

ADDITIONAL OPTIONS

NAT - Natatorium Rated
F - Frosted Lens
42 - Mounting Plate for 4" Junction Box
DIM - 0-10v Dimming

COLORED DICHROIC FILTERS
RD - Red Lens
BL - Blue Lens
GR - Green Lens
AM - Amber Lens
(Specify Other Color)

Ligman Lighting USA reserves the right to change specifications without prior notice, please contact factory for latest information. Due to the continual improvements in LED technology data and components may change without notice.

Intertek

4 AWING FIXRTURE
NTS

3 SCONCE FIXRTURE AT CANOPY COLUMN
NTS

Imperial Lighting | L6 | Job: Dutch Brothers Coffee Prototype | Descr: Exterior Wallpack

WPLED26Y/E

RAB

26 Watt LED wallpack with emergency backup battery that will last for 90 minutes during power interruption. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze Weight: 14.0 lbs

Project:	Type:
Prepared By:	Date:

Driver Info

Type:	Constant Current	Watts:	26W
120V:	0.26A	Color Temp:	3000K
208V:	0.16A	Color Accuracy:	71 CRI
240V:	0.14A	L70 Lifespan:	100000
277V:	0.12A	Lumens:	3296
Input Watts:	29W	Efficacy:	112 LPW
Efficiency:	89%		

LED Info

Technical Specifications

Other

Battery Backup:
Minimum starting temperature is 0°C/32°F.

Patents:
The WPLED design is protected by U.S. Patent D634878 and Patents pending in the U.S., Canada, China, Taiwan and Mexico.

Equivalency:
Equivalent to 175W Metal Halide.

FTC Country of Origin:
This product was assembled in the USA by RAB using imported components.

Buy American Act Compliance:
This product complies with the Buy American Act.

Listings

DLC Listed:
This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000175O

UL Listing:
Suitable for Wet Locations as downlight, Wall Mount Only. Battery Backup UL 924 Listed Emergency Lighting Power Supply.

LED Characteristics

Lifespan:
100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

LED:
Two (2) 13W high-output, long-life LEDs.

Color Consistency:
3-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:
LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:
RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Electrical

Battery Mode:
Light output use LLD of.76 to simulate light output during battery mode operation.

Driver:
Constant Current, Class 2, 50/60 Hz, 120 - 277VAC 0.4 Amps.

Battery Backup

Backup Battery:
Two field-replaceable, high-temperature, maintenance-free, nickel-cadmium batteries.

Construction

Ambient Temperature:
Suitable for use in 35°C (95°F) ambient temperatures.

Gaskets:
High temperature silicone.

Housing:
Precision die-cast aluminum housing, lens frame and mounting arm

Finish:
Formulated for high-durability and long lasting color.

Green Technology:
Mercury and UV free. RoHS compliant components. Polyester powder coat finish formulated without the use of VOC or toxic heavy metals.

Optical

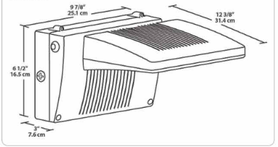
BUG Rating:
B1 U0 G0

Copyright © 2018 RAB Lighting Inc. All Rights Reserved Note: Specifications are subject to change at any time without notice

WPLED26Y/E

RAB

Dimensions



Features

Backup battery UL 924 listed
UL listed for wet locations
90 minutes illumination time during power interruption
Includes test switch and charge indicator light
Universal input voltage
5-year warranty

Ordering Matrix

Family	Wattage	Color Temp	Finish	Battery Backup	Photocell
WPLED	26 = 26W	Blank = 5000K (Cool) Y = 3000K (Warm) N = 4000K (Neutral)	Blank = Bronze W = White	/E = Battery Backup /ECO = Cold Start Battery Backup	Blank = No Photocell /PC = 120V Button /PCS = 120V Swivel /PC2 = 277V Swivel

Verify required

Copyright © 2018 RAB Lighting Inc. All Rights Reserved Note: Specifications are subject to change at any time without notice

2 WALL PACK FIXRTURE AT REAR DOOR
NTS

Imperial Lighting | P | Job: Dutch Bros | Descr: Pole Head - Prototype Selection Dec, 2019

AREA LIGHTING

NV-1-ASA

FORM AND FUNCTION
- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
  - Parking Lots
  - Auto Dealerships
  - General Area Lighting

CONSTRUCTION
- Die Cast Aluminum
- External cooling fins, Finite Element Analysis (FEA) designed
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

FINISH
- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY
Five-year limited warranty for drivers and LEDs.

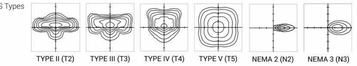
LISTINGS
- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010

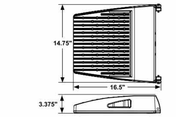
ELECTRICAL
- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is ≥ .95, THD maximum load is 15%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- Lumileds Luxeon MX LED's
- CRI >70
- Color temperatures: 3000K, 4000K, 5000K

OPTIONS
- **BIRD DETERRANT (BD)**—offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.
- **MARINE GRADE FINISH (MGF)**—A multi-step process creating protective finishing coat against harsh environments.
  - Chemically washed in a 5 stage cleaning system.
  - Pre-baked
  - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
  - 1-2 feet inside pole coverage top and bottom.
  - Oven Baked.
  - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- **SHIELDS (HSS, AHS)**—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- **ROUND POLE ADAPTER (RPA)–** When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

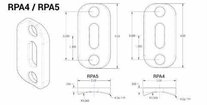
CONTROLS
- **FSP-211 (FSP-X)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
  - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
  - FSP-20 mounting heights 9-20 feet
  - FSP-40 mounting heights 21-40 feet.
  - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

OPTICS
Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.
- IES Types





RPA4 / RPA5



HOUSE SIDE SHIELD | **AUTOMOTIVE HOUSE SIDE SHIELD**

FSP-211

Cat #	Light Dist.	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV (NV-1)	Type 2 (T2) Type 3 (T3) Type 4 (T4) Type 5 (T5) Nema 2 24° Narrow Beam (N2) Nema 3 30° Narrow Beam (N3)	16 (16L) 32 (32L) 48 (48L) 64 (64L)	350 (35) 530 (53) 700 (7) 1050 (1)	3000K (30K) 4000K (40K) 5000K (50K)	120-277 (UNV) 347-480 (HV)	Architectural Sweep Arm (ASA)	Bronze (BRZ) White (WHT) Silver (SVR) Black (BLK) Graphite (GPH) Grey (GRY) Custom (CS)	Bird Deterrant (BD) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP) Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER) FSP-211 (with Motion Sensor 0-10V Voltage) (FSP-20) *9'-20' Heights (FSP-40) *21'-40' Heights Surge Protector (10K) Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5) Rotated Optic Left (ROL) Rotated Optic Right (ROR) Automotive House Side Shield (AHS) House Side Shield (HSS) * *HSS not applicable with N2 - NEMA 24° Optics *HSS not applicable with N3 - NEMA 30° Optics

In California or where Motion Step-Dim is required under 24°

If Site Lighting Plan indicates to use

NLS LIGHTING
701 Kingshill Place, Carson, CA 90746
Call Us Today (310) 341-2037
nlslighting.com

6 CANOPY SOFFIT FIXRTURE
NTS

DUTCH BROS Coffee

GNICH ARCHITECTURE STUDIO
AN OREGON LIMITED LIABILITY COMPANY

1001 SE SANDY BLVD, SUITE 100
PORTLAND, OR 97214
V. 503.552.9079
F. 503.241.7055
WWW.GNICHARCH.COM

04/24/25

Project No: CA3714
Dutch Bros Coffee - New Freestanding Store
58121 29 Palms Hwy
Yucca Valley, CA 92284
For: Dutch Bros Coffee
110 SW 4th Street
Grants Pass, OR 97526

DB2550-A1SQ

ISSUED FOR DESIGN REVIEW:
04.24.2025

REV	DATE	DESCRIPTION

SHEET NAME:

LIGHTING SPECS.

SHEET NUMBER:

DRP5.0

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"The name DUTCH BROS, and all associated logos, distinctive designs, content, information, and other materials featured, displayed, contained herein, and made available by Dutch Bros., including but not limited to, the "look and feel" of the establishments and products, all text, images, colors, configurations, graphics, designs, illustrations, photographs, and pictures (collectively, the "Materials") are owned by and/or licensed by DB Franchising USA, LLC and are protected by copyright, trademark, trade dress, patent, and/or other intellectual property rights and unfair competition laws under the United States and foreign laws."

GETTING STARTED L5

Following these few simple steps will ensure a successful installation each time. Remember: No more than 48 boards per power supply.

1. **Read ALL instructions, before starting installation.**
2. **Inspect the boxes for damage and check the parts against the supplied parts list.**

   NOTE: Report damaged parts or shortages immediately to prevent job slowdown/stoppage to 1-800-634-4059 ext. 0
3. **Refer to attached provided print and confirm job measurements.**
4. **Layout your job on paper, making note of power supply placement.**

Power supplies can be placed at the end of runs or side by side to power allowable linear footage in each direction.

NOTE: If job measurements do not correspond to provided drawing, call Lektron Immediately at 1-800-634-4059.

CONTENTS

Getting Started, Component Identification & Required Tools

SECTION	PAGE
1. 48 Board Track Mounting Bracket Layout	2
2. Installing Track into Mounting Brackets	3
3. Custom Cut to Fit End of Runs & Corners	4
4. Mounting Track on an Incline	5
5. Frame Border Installation	6
6. Connecting Power Supplies	7
7. Testing Each Section	8

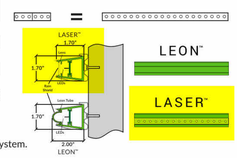
COMPONENT IDENTIFICATION & REQUIRED TOOLS

DETAILS

Input	120-277 VAC
Output	24 VDC (Philips Advance)
Max. Load Footage	64 Lineal ft. 20L 48 Lineal ft. 30L & 24L
Watts per Foot	1.50 (If 20L)
Dimming Capable	Yes
Bending Parameters	Factory bends available
Limited Warranty Terms	7 Years
Materials	PVC, UV and impact resistant
Dimensions	Laser 1.70 x 1.70, Leon 2.00 x 1.70
Certification	cULus E174914

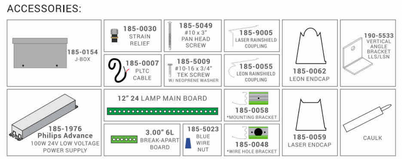
LED SPECIFICATIONS

12" LED boards pull close to the same voltage as shorter break-apart boards. Maximum of 3-3" Boards per circuit. No more than 48 boards on a circuit. Do not connect more than one power supply per circuit.



The LEDS come pre-installed in the 24 Lamp LASER & LEON System.

ACCESSORIES:



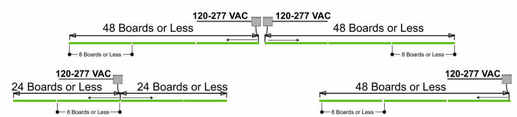
REQUIRED TOOLS:

- 25' Measuring Tape
- 100' Measuring Tape
- Framing Square
- Square - (1')
- Portable Rechargable Drill 5/16" Hexbit and unibit Masonry bits (if brick wall)
- Extension Cord
- Sawzall or Compound Saw
- Carpenter Pencil
- Caulk Gun
- Box Knife
- Wire Strippers
- Wire Snips
- Laser Tool or Chalk Line
- Substitute Fasteners for the Application if Applicable

SEC. 1 48 BOARD TRACK MOUNTING BRACKET LAYOUT

1. Using a chalk line, gauge, laser level, or other means to be certain run is straight, marking locations for brackets.
2. Border / perimeter of sign cabinets should always have orientation of Laser/Leon housing raised lip outboard on vertical or diagonal. Orient brackets so that the drain holes will be on the bottom side of the horizontal runs.
3. Install mounting brackets, 6 per 8' section including shared brackets. Use pre-drilled wire hole mounting brackets at power supply locations.

NOTE: Track sections share a bracket at the ends to keep ends together and straight there MUST BE A SPACE left between 8' plastic track sections (NOT LEDS) of 3/16"



Tip: Install end bracket after housing has been installed into previous brackets by sliding over end to ensure bracket is centered between sections. Place mounting brackets 3" on center from corners.

NOTE: MAXIMUM 48 BOARDS PER POWER SUPPLY. SHOWN 3 CONFIGURATIONS.

6 PARAPET 2 STRIP LIGHT FIXTURE

NTS

dmf L9

MODULE

DRD5S
Surface Mount LED Downlight
Retrofit
Junction Box

DRD5S
Surface Mount LED Module
DRD5S

SUMMARY

LED: Optimized LED array

SHAPE: 4" Round, 4" Square

MODULE LUMENS: 750 lm (9.0W), 1000 lm (12.0W)

COLOR QUALITY: 90+ CRI, less than 3-step SDCM

CCT: 2700K, 3000K, 3500K

INPUT VOLTAGE: 120/277V

DIMMING: Down to less than 5% for TRIAC/ELV at 120V, 1% for 0-10V at 120/277V

MAX INPUT CURRENT (120V): 0.075 amps, 0.1047 amps

MAX INPUT CURRENT (277V): 0.034 amps, 0.047 amps

POWER FACTOR: Greater than 0.9

TOTAL HARMONIC DISTORTION: Less than 20%

AMBIENT OPERATING TEMPERATURE: -20°C to 40°C

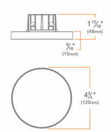
PHOTOMETRIC TESTING: Tested in accordance to IESNA LM-79-2008

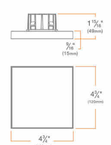
TRIM: Edgeless die-cast aluminum

LISTINGS: ENERGY STAR® qualified, California Title 24 2016 JA8 compliant, UL Listed for Wet Location, cULus Listed

LIFETIME: 50,000 hours at 70% lumen maintenance

WARRANTY: 5 year limited warranty





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5 CANOPY SOFFIT FIXRTURE

NTS

Project No: CA3714
Dutch Bros Coffee - New Freestanding Store
58121 29 Palms Hwy
Yucca Valley, CA 92284
For: Dutch Bros Coffee
110 SW 4th Street
Grants Pass, OR 97526

DB2550-A1SQ

GNICH ARCHITECTURE STUDIO
AN OREGON LIMITED LIABILITY COMPANY

1001 SE SANDY BLVD, SUITE 100
PORTLAND, OR 97214
V. 503.552.9079
F. 503.241.7055
WWW.GNICHARCH.COM

04/24/25

ISSUED FOR DESIGN REVIEW:
04.24.2025

REV	DATE	DESCRIPTION

SHEET NAME:

LIGHTING SPECS.

SHEET NUMBER:

DRP5.1

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Know what's below. Call before you dig. Dial 811

DUTCH BROS. COFFEE - CA3714 - YUCCA VALLEY, CA
PRELIMINARY GRADING AND DRAINAGE PLAN

PROJECT DATA

NAME: DUTCH BROS COFFEE – CA3714 – YUCCA VALLEY, CA

PARCEL AREA: 44,190 SF (1.014 ACRES)

DISTURBED PROJECT AREA: 48,127 SF (1.1 ACRES)

PARCEL #: 0601-416-05

ZONE: MIXED USE COMMERCIAL (C-MU)

GENERAL PLAN DESIGNATION: COMMERCIAL

QUEING: 23 VEHICLES

BASIS OF BEARINGS:

THE BEARING BEARINGS N 53° 33' 05" E ALONG BALSA AVENUE AS SHOWN ON PARCEL MAP NO. 15502, FILED IN BOOK 193, PAGES 98 AND 99 OF PARCEL MAPS.

EASEMENT NOTES

1. 5' EASEMENT(S) FOR ELECTRIC AND TELEPHONE FACILITIES AND RIGHT INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO CALIFORNIA WATER & TELEPHONE COMPANY RECORDED MARCH 30, 1962, IN BOOK 5672, PAGE 78, OFFICIAL RECORDS.
2. MATTERS CONTAINED IN THAT CERTAIN DOCUMENT ENTITLED RECIPROCAL EASEMENT AGREEMENT DATED OCTOBER 3, 2000, EXECUTED BY JOSEPH A. SIROLA AND THOMAS A KELLER, III ET AL RECORDED OCTOBER 20, 2000, RECORDING NO. 20000381189, OFFICIAL RECORDS.
3. EASEMENT(S) FOR UNDERGROUND COMMUNICATION FACILITIES AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO VERIZON CALIFORNIA INC., A CALIFORNIA CORPORATION RECORDED FEBRUARY 1, 2002, RECORDING NO. 20020054622, OFFICIAL RECORDS.
4. 20' EASEMENT(S) FOR SEWER EASEMENT AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO HI DESERT WATER DISTRICT, A PUBLIC AGENCY OF THE STATE OF CALIFORNIA RECORDED AUGUST 21, 2015, RECORDING NO. 2015-0360067, OFFICIAL RECORDING.

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

PARCEL ONE:

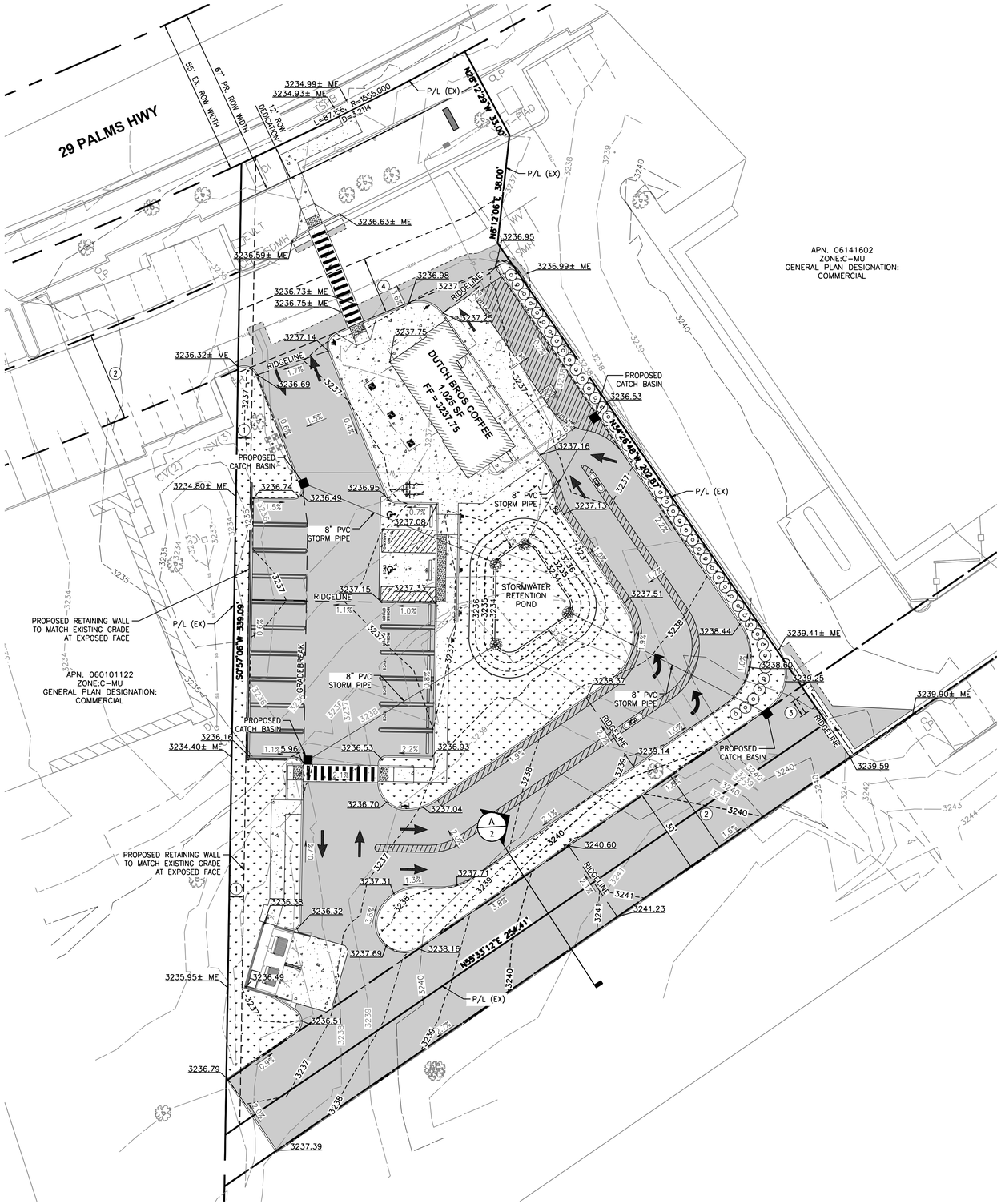
PARCEL 4 OF PARCEL MAP NO. 15502, IN THE TOWN OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 193, PAGES 98 AND 99 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL TWO:

A NON-EXCLUSIVE EASEMENT FOR REASONABLE PEDESTRIAN AND VEHICULAR ACCESS, INGRESS AND EGRESS AS SET FORTH AND DEFINED AS EASEMENT DRIVEWAY IN RECIPROCAL EASEMENT AGREEMENT RECORDED OCTOBER 20, 2000, INSTRUMENT NO. 2000-381189, OF OFFICIAL RECORDS

APN: 0601-416-05

THE LAND SHOWN IN THIS SURVEY IS THE SAME AS THAT DESCRIBED IN FIDELITY NATIONAL TITLE COMPANY, COMMITMENT NO, FCHI2400711NT WITH AN EFFECTIVE DATE OF AUGUST 22, 2024 AT 7:30 AM



N

0 10' 20' 40'

SCALE: 1"=20'

GRADING GENERAL NOTES:

1. ALL GRADING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF THE CURRENT CITY ORDINANCE AND STANDARD PLANS. THE GRADING IS SUBJECT TO THE OBSERVATION AND APPROVAL OF THE PUBLIC WORKS DEPARTMENT.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL PROPOSED GRADES IN RELATIONSHIP TO SURVEYED BASIS OF ELEVATION.
3. ALL EXISTING UTILITY STRUCTURES AND ASSOCIATED LIDS THAT FALL WITHIN THE AREA OF WORK SHALL BE ADJUSTED TO FINISHED GRADE ELEVATIONS. CONTRACTOR SHALL CONFIRM THE FEASIBILITY OF ADJUSTING EXISTING UTILITY STRUCTURE LIDS TO FINISHED GRADE PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
4. CONTRACTOR TO PROTECT AND MAINTAIN EROSION CONTROL FACILITIES DURING GRADING OPERATIONS.
5. CONTRACTOR TO OBTAIN ANY NECESSARY RIGHT-OF-WAY PERMITS IF REQUIRED FOR WORK SHOWN ON PLANS.
6. CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AT ALL SAWCUT LOCATIONS.
7. ALL SPOT ELEVATIONS SHOWN ARE TO FINISH SURFACE (TOP OF ASPHALT OR TOP OF CONCRETE PAVEMENT, NOT TOP OF CURB/SIDEWALK) UNLESS OTHERWISE NOTED.

GRADING PLAN LEGEND:

FF – FINISHED FLOOR
ME – MATCH EXISTING
LP – LOW POINT
EXISTING CONTOURS

UTILITY POTHOLING NOTE:

THE CIRCLED LOCATIONS ARE REQUIRED TO BE POTHOLED TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITY AND/OR POTENTIAL CONFLICTS WITH EXISTING UTILITIES. POTHOLING SHALL BE PERFORMED PRIOR TO INSTALLING ANY PROPOSED UTILITIES. CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

OWNER

CONTACT: CHRIS PETO
5TH STREET DEVELOPMENT, LLC
1011 CAMINO DEL MAR #258
DEL MAR, CA 92014
TEL: (310) 346-0379
EMAIL: CPETO@HALFERTY.COM

ENGINEER

BARGHAUSEN CONSULTING ENGINEERS, LLC
18215 72ND AVE. SOUTH
KENT, WA 98032
TEL: (425) 251-6222
CONTACT: HAL P. GRUBB, P.E.
EMAIL: HGRUBB@BARGHAUSEN.COM
WEBSITE: HTTPS://WWW.BARGHAUSEN.COM

GEOTECHNICAL

INLAND ENGINEERING TECHNOLOGIES INC.
41655 REAGAN WY. STE E
MURRIETA, CA 92562
TEL: (951) 894-6464
CONTACT: JAMES WORLEY
WEBSITE: HTTPS://WWW.INLANDTECHNOLOGIES.NET

DEVELOPER

DUTCH BROS COFFEE
P.O.BOX 1929
GRANTS PASS, OR 97528
CONTACT: JOHN CAGLIA
TEL: (714) 883-9092
EMAIL: JOHN.CAGLIA@DUTCHBROS.COM
WEBSITE: HTTPS://WWW.DUTCHBROS.COM

SURVEYOR

RICHTIG CORP.
13911 NOWATA CT.
APPLE VALLEY, CA 92307
TEL: (833) 907-5082
EMAIL: CHRIS@RICHTIGCORP.COM

ESTIMATED EARTHWORK QUANTITIES:

CUT: 1000 CY

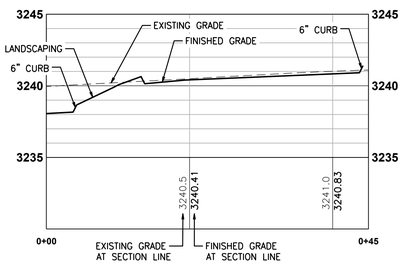
FILL: 200 CY

NET: 800 CY

AREA TO BE DISTURBED = 1.1 ACRES

- THE QUANTITIES LISTED ARE FOR PERMITTING PURPOSES ONLY.
- THE QUANTITIES LISTED INCLUDE PRELIMINARY PROPOSED PAVING SECTIONS.
- EARTHWORK QUANTITIES ARE APPROXIMATE AND DO NOT ACCOUNT FOR CLEARING AND GRUBBING, TRENCHING, OR OVER EXCAVATION ETC. AS REQUIRED BY THE GEOTECHNICAL REPORT.
- THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING SITE CONDITIONS AND CALCULATE THEIR OWN EARTH WORK QUANTITIES FOR THE PROJECT PRIOR TO BID

- CONTRACTOR SHALL REFER TO THE GEOTECHNICAL INVESTIGATION REPORT FOR THIS SITE DATED: TBD
PREPARED BY: INLAND TECHNOLOGIES INC.



A/2 **ROADWAY CROSS SECTION**
SCALE: 1"=10'H, 1"=5'V

LEGEND

BUILDING LINE
EXISTING CURB TO REMAIN
PROPOSED CURB
PROPOSED LANDSCAPING
PROPOSED ASPHALT
PROPOSED CONCRETE

PRELIMINARY NOT FOR CONSTRUCTION

Title: PRELIMINARY GRADING AND DRAINAGE PLAN
SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

For: DUTCH BROS

LICENSED PROFESSIONAL ENGINEER HAL P. GRUBB 17981 CIVIL STATE OF CALIFORNIA
Not for Construction

Scale: Horizontal 1" = 20' Vertical N/A

Designed RG Drawn LW Checked AEM Approved HPG Date 4/23/25

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 23690

Sheet 2 OF 2

P:\23000s\23690\preliminary\23690-GM.dwg 4/23/2025 3:36 PM NNAZARCHUK

"The name DUTCH BROS. and all associated logos, distinctive designs, content, information, and other materials featured, displayed, contained herein, and made available by Dutch Bros., including but not limited to, the "look and feel" of the establishments and products, all text, images, colors, configurations, graphics, designs, illustrations, photographs, and pictures (collectively, the "Materials") are owned by and/or licensed by DB Franchising USA, LLC and are protected by copyright, trademark, trade dress, patent, and/or other intellectual property rights and unfair competition laws under the United States and foreign laws."
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DUTCH BROS. COFFEE - CA3714 - YUCCA VALLEY, CA

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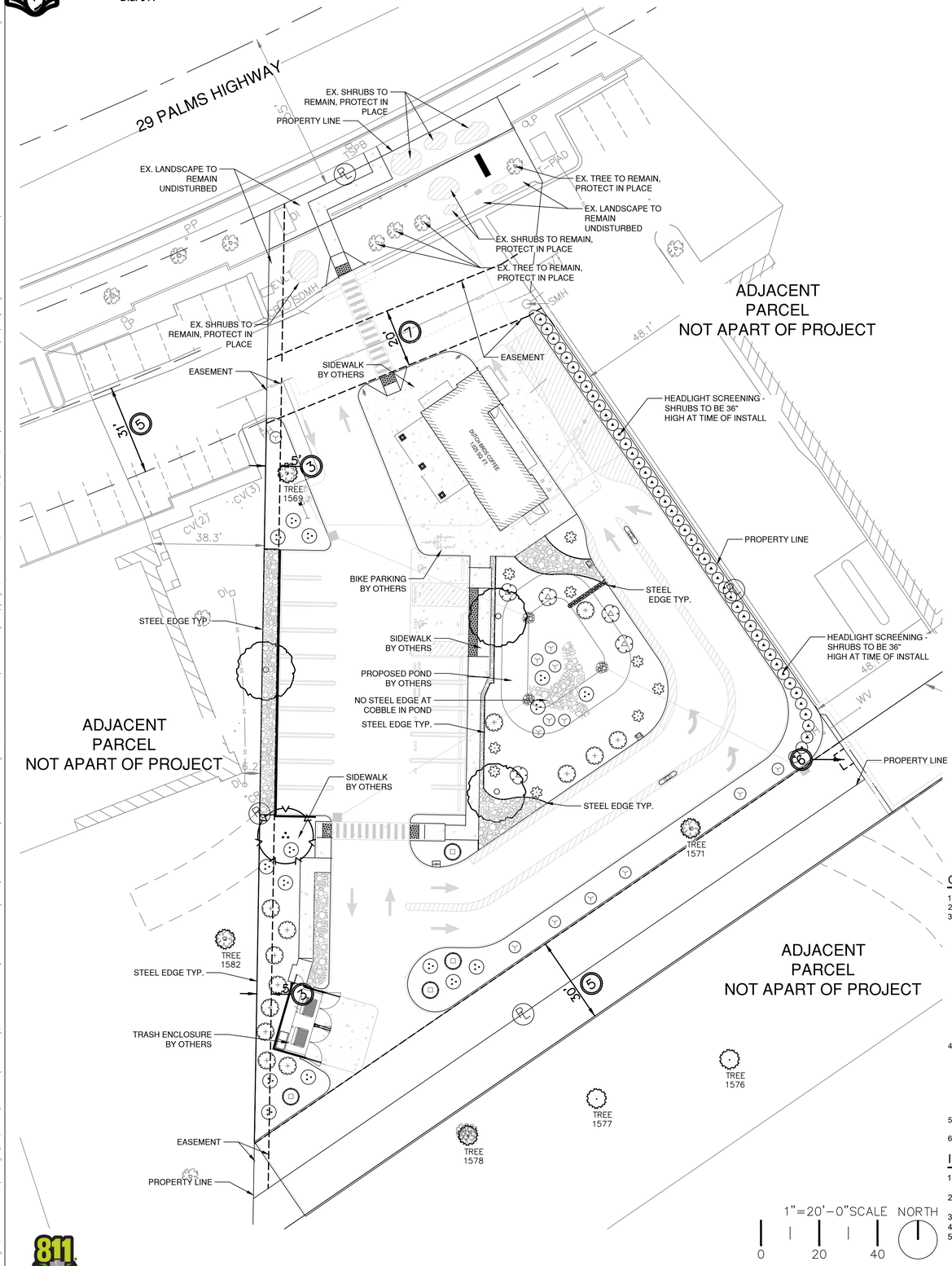

PROJECT TEAM

LANDSCAPE ARCHITECT:

EVERGREEN DESIGN GROUP
17875 VON KARMAN, STE 150
IRVINE, CA 92614
800-680-6630
WWW. EVERGREENDESIGNGROUP.COM
CONTACT: BLAKE TOMILLOSO-RHINEHART, PLA
EMAIL: BLAKE@EVERGREENDESIGNGROUP.COM

MULCH

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 4" LAYER OF CALIFORNIA GOLD DECOMPOSED GRANITE MULCH, IN ALL PLANTING AREAS (EXCEPT FOR TURF AREAS). ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

SOILS

FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL, COMPOST AT A RATE OF A MINIMUM OF FOUR CUBIC YARDS PER 1,000 SQUARE FEET OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL EXCEPT WITHIN THE TPZ OF PROTECTED TREES, WHICH SHALL RECEIVE 4 - 6" OF HARDWOOD CHIP MULCH.

LANDSCAPE CALCULATIONS

GENERAL AREAS:

PARCEL AREA:	48,127 SF
PROJECT AREA:	48,127 SF
BUILDING AREA:	1,025 SF
LANDSCAPE AREA:	10,350 SF

PARKING LOT:

PARKING SPACES PROPOSED:	18 SPACES
PARKING LOT TREES PROPOSED:	4 TREES
TRASH ENCLOSURE SCREEN:	PROVIDED W/ SHRUBS
HEADLIGHT SCREEN:	PROVIDED W/ SHRUBS

DECLARATION OF WATER EFFICIENT LANDSCAPE ORDINANCE

I HAVE COMPLIED WITH THE CRITERIA OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED SUCH CRITERIA FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

BLAKE TOMILLOSO-RHINEHART, LANDSCAPE ARCHITECT — 4.21.2025 DATE

CA LICENSE #6255 — 8-31-26 EXP. DATE

REGISTRATION

MWELO NOTES

1. A DIAGRAM OF THE IRRIGATION PLAN SHOWING HYDROZONES SHALL BE KEPT WITH THE IRRIGATION CONTROLLER FOR SUBSEQUENT MANAGEMENT PURPOSES.
2. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR THE LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
3. AN IRRIGATION AUDIT REPORT BY A DISINTERESTED THIRD PARTY SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION
4. THE CONTRACTOR SHALL PREPARE A SOILS MANAGEMENT REPORT. THE SOIL MANAGEMENT REPORT SHALL BE BOTH INTEGRATED INTO THE PLANS AND SUBMITTED AS A SEPARATE DOCUMENT.
5. PRESSURE REGULATING DEVICES ARE REQUIRED IF WATER PRESSURE IS BELOW OR EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVICES.
6. CHECK VALVES OR ANTI-DRAIN VALVES ARE REQUIRED ON ALL SPRINKLER HEADS WHERE LOW POINT DRAINAGE COULD OCCUR.

PLANT SCHEDULE

PHOTO	SYMBOL	BOTANICAL / COMMON NAME	SIZE	WUCOLS	MATURE SIZE (W`XH`)	REMARKS
TREES						
		OLEA EUROPAEA `SWAN HILL` SWAN HILL FRUITLESS OLIVE	15 GAL	L	25`X25`	
		PARKINSONIA ACULEATA MEXICAN PALO VERDE	15 GAL	L	25`X25`	

PHOTO	SYMBOL	BOTANICAL / COMMON NAME	SIZE	WUCOLS	SPACING	REMARKS
SHRUBS						
		AGAVE DESERTI DESERT AGAVE	5 GAL	L	48" o.c.	
		ARISTIDA PURPUREA PURPLE THREEAWN	1 GAL	L	48" o.c.	
		DASYLIRION WHEELERI GREY DESERT SPOON	5 GAL	L	72" o.c.	
		ERIOGONUM FASCICULATUM CALIFORNIA BUCKWHEAT	5 GAL	L	72" o.c.	
		LEUCOPHYLLUM FRUTESCENS TEXAS SAGE	5 GAL	L	48" o.c.	36" HIGH AT TIME OF INSTALL
		MUHLENBERGIA RIGENS DEER GRASS	5 GAL	L	60" o.c.	
		SIMMONDSIA CHINENSIS JOJOBA	5 GAL	L	72" o.c.	

PHOTO	SYMBOL	BOTANICAL / COMMON NAME	SIZE	WUCOLS	SPACING	QTY	REMARKS
GROUND COVERS							
		DECORATIVE COBBLE 3-6" LOCAL COBBLE OVER FABRIC	N/A			1,498 SF	

GENERAL GRADING AND PLANTING NOTES

1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
3. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
   a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1" OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
   b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
   c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (**BASED ON A SOIL TEST**, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
   d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
   f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
4. ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
   a. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
   b. **NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT.** IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
   c. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
5. THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
6. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

IRRIGATION CONCEPT

1. AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED AND QUALIFIED IRRIGATION CONTRACTOR.
2. THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE.
3. ALL NON-TURF PLANTED AREAS SHALL BE DRIP IRRIGATED. SODDED AND SEEDED AREAS SHALL BE IRRIGATED WITH SPRAY OR ROTOR HEADS AT 100% HEAD-TO-HEAD COVERAGE.
4. ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
5. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSORY INPUT CAPABILITIES.

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LANDSCAPE ARCHITECTURE
LAND PLANNING · IRRIGATION DESIGN

Title: LANDSCAPE PLANTING PLAN

SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

For:

I, LICENSED LANDSCAPE ARCHITECT, BLAKE TOMILLOSO-RHINEHART, LICENSE #6255, 8.31.26, 4.21.2025, STATE OF CALIFORNIA

Scale: Horizontal Vertical

Designed | Drawn | Checked | Approved | Date

Barghausen Consulting Engineers, LLC.
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Kent, WA 98032
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Job Number 23690

Sheet LP-1

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PLANTING SPECIFICATIONS

GENERAL

A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR
1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID C-27 LANDSCAPE CONTRACTOR'S LICENSE ISSUED BY THE STATE OF CALIFORNIA'S CONTRACTOR STATE LICENSE BOARD.

B. SCOPE OF WORK
1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

PRODUCTS

A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.
B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:
1. FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMACTIC CONDITIONS.
2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
3. TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTBLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
5. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL. WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.

C. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN ½ INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
D. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
E. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).
F. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
G. TREE STAKING AND GUYING
1. STAKES: 6' LONG GREEN METAL T-POSTS.
2. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
3. STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
L. STEEL EDGING: PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COL-MET OR APPROVED EQUAL.
M. PRERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

METHODS

A. SOIL PREPARATION
1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
2. SOIL TESTING:
a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
b. THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.
c. THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
d. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
4. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
a. TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
iii. "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
iv. IRON SULPHATE - 2 LBS. PER CU. YD.
5. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (**BASED ON A SOIL TEST**, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
e. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
6. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

B. SUBMITTALS
1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
3. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.

C. GENERAL PLANTING
1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
2. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
3. TRENCHING NEAR EXISTING TREES:
a. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
c. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

D. TREE PLANTING
1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
2. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
3. FOR CONTAINER AND BOX TREES. TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
5. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED. IF INSUFFICIENT SOIL PRIOR TO THE BACKFILL, SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION AS THE ON-SITE SOIL.
6. TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGE BEYOND REPAIR. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
a. #15 CONT. - 24" BOX TREES TWO STAKES PER TREE
b. 36"-48" BOX TREES THREE STAKES PER TREE
c. OVER 48" BOX TREES GUY AS NEEDED
d. MULTI-TRUNK TREES THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE.
7. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).

E. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING
1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
2. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA

H. MULCH
1. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
2. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.

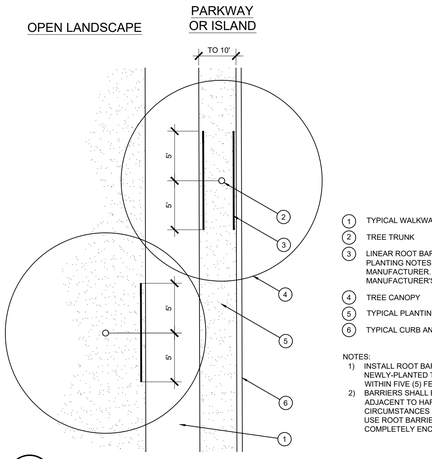
I. CLEAN UP
1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
2. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.

J. INSPECTION AND ACCEPTANCE
1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
2. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.

K. LANDSCAPE MAINTENANCE
1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS THAT HAVE SETTLED, WEEDING, TREATING FOR INSECTS AND DISEASES,REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
2. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
b. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.

L. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS
1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
2. AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.

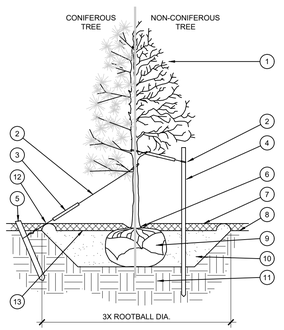
M. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.



1. TYPICAL WALKWAY OR PAVING
2. TREE TRUNK
3. LINEAR ROOT BARRIER MATERIAL. SEE PLANTING NOTES FOR TYPE AND MANUFACTURER. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
4. TREE CANOPY
5. TYPICAL PLANTING AREA
6. TYPICAL CURB AND GUTTER

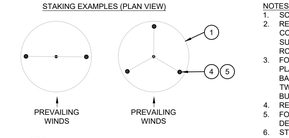
NOTES:
1) INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS.
2) BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

F ROOT BARRIER - PLAN VIEW
SCALE: NOT TO SCALE



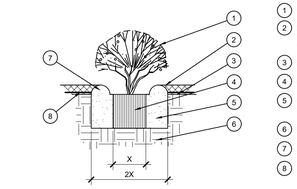
1. TREE CANOPY.
2. CINCH-TIES (24" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (36" BOX/2.5" CAL. TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
3. 24" X 3/4" P.V.C. MARKERS OVER WIRES.
4. GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL.
5. PRESSURE-TREATED WOOD DEADMAN, TWO PER TREE (MIN.). BURY OUTSIDE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
6. TRUNK FLARE.
7. MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK.
8. FINISH GRADE.
9. ROOT BALL.
10. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
11. UNDISTURBED NATIVE SOIL.
12. 4" HIGH EARTHEN WATERING BASIN.
13. FINISH GRADE.

STAKING EXAMPLES (PLAN VIEW)



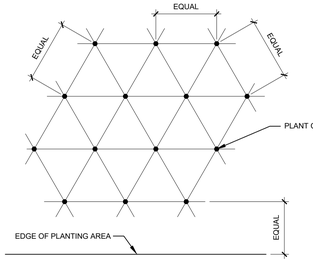
NOTES:
1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2"-4" ABOVE FINISH GRADE.
3. FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE, CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.
4. REMOVE ALL NURSERY STAKES AFTER PLANTING.
5. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.
6. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.

A TREE PLANTING
SCALE: NOT TO SCALE



1. SHRUB, PERENNIAL, OR ORNAMENTAL GRASS.
2. MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1" OF MULCH WITHIN 6" OF PLANT CENTER.
3. FINISH GRADE.
4. ROOT BALL.
5. BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
6. UNDISTURBED NATIVE SOIL.
7. 3" HIGH EARTHEN WATERING BASIN.
8. WEED FABRIC UNDER MULCH.

B SHRUB AND PERENNIAL PLANTING
SCALE: NTS



NOTE: ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING (EXCEPT WHERE SHOWN ON PLANS AS INFORMAL GROUPINGS). REFER TO PLANT LEGEND FOR SPACING DISTANCE BETWEEN PLANTS.

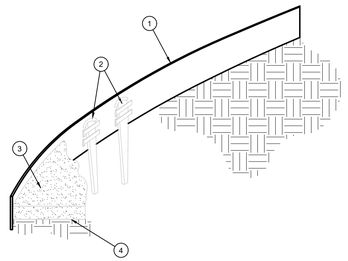
1) STEP 1: DETERMINE TOTAL PLANTS FOR THE AREA WITH THE FOLLOWING FORMULA:
TOTAL AREA / AREA DIVIDER = TOTAL PLANTS

PLANT SPACING	AREA DIVIDER	PLANT SPACING	AREA DIVIDER
6"	0.22	18"	1.95
8"	0.39	24"	3.46
10"	0.60	30"	5.41
12"	0.87	36"	7.79
15"	1.35		

2) STEP 2: SUBTRACT THE ROW (S) OF PLANTS THAT WOULD OCCUR AT THE EDGE OF THE PLANTED AREA WITH THE FOLLOWING FORMULA: TOTAL PERIMETER LENGTH / PLANT SPACING = TOTAL PLANT SUBTRACTION

EXAMPLE: PLANTS AT 18" O.C. IN 100 SF PLANTING AREA, 40 LF PERIMETER
STEP 1: 100 SF/1.95 = 51 PLANTS
STEP 2: 51 PLANTS - (40 LF / 1.95 = 21 PLANTS) = 30 PLANTS TOTAL

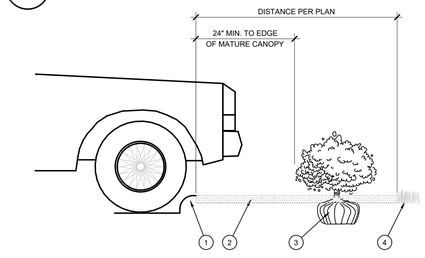
C PLANT SPACING
SCALE: NTS



1. ROLLED-TOP STEEL EDGING PER PLANS.
2. TAPERED STEEL STAKES.
3. MULCH, TYPE AND DEPTH PER PLANS.
4. FINISH GRADE.

NOTES:
1) INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED.
2) BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF 1" BELOW FINISH GRADE.
3) TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.

D STEEL EDGING
SCALE: NOT TO SCALE



1. CURB.
2. MULCH LAYER.
3. PLANT.
4. TURF (WHERE SHOWN ON PLAN).

E PLANTING AT PARKING AREA
SCALE: NOT TO SCALE

PRELIMINARY NOT FOR CONSTRUCTION

"The name DUTCH BROS. and all associated logos, distinctive designs, content, information, and other materials featured, displayed, contained herein, and made available by Dutch Bros., including but not limited to, the "look and feel" of the establishments and products, all text, images, colors, configurations, graphics, designs, illustrations, photographs, and pictures (collectively, the "Materials") are owned by and/or licensed by DB Franchising USA, LLC and are protected by copyright, trademark, trade dress, patent, and/or other intellectual property rights and unfair competition laws under the United States and foreign laws."

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LANDSCAPE ARCHITECTURE
LAND PLANNING · IRRIGATION DESIGN

Title: LANDSCAPE PLANTING SPECIFICATIONS & DETAILS
SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

For:

I, LICENSED LANDSCAPE ARCHITECT, HEREBY DECLARE THAT I AM RESPONSIBLE FOR THE WORK SHOWN ON THIS PLAN AND THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE PREPARATION OF THIS PLAN. 8.31.26 4.21.2025 STATE OF CALIFORNIA

Scale: Horizontal Vertical
Designed Drawn Checked Approved Date
4/21/2025 1:22 PM BLAKE
P:\Shared\Projects\2025\Dutch Bros\DUTCH BROS - YUCCA VALLEY CA - 29 PALMS HWY & BALSA AVE\DutchBros-YuccaValleyCA_LP.dwg

Barghausen Consulting Engineers, LLC.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 23690
Sheet LP-2

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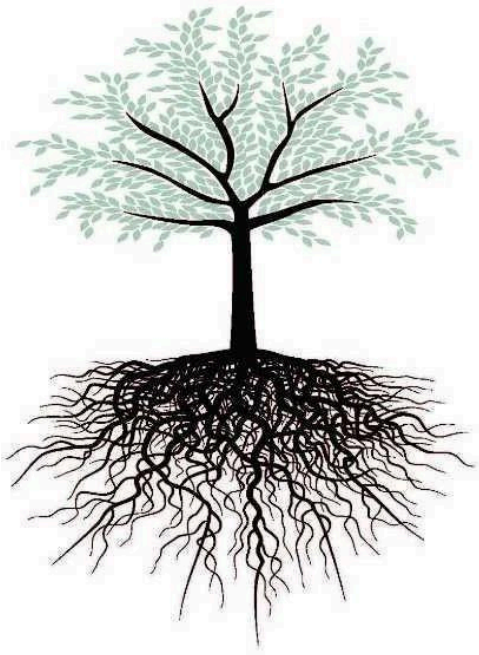


Desert Arborist

COMPLETE TREE AND PLANT HEALTHCARE SERVICES

Warren Miller
Certified Arborist #WE2001A
Licensed Pesticide Applicator #147419
Cirtidied Landscape Irrigation Auditor #77205

This report is providing a Desert Native Plant Specialist Report as required by the Town of Yucca Valley with regard to New Ground Up Construction.

Joshua Tree/Protected Native Plant Census for:

Ground Up Construction

29 Palms Hwy & Balsa Ave,

Yucca Valley, CA 92284

Blake Rhinehart

This report has been created with the following characteristics for the western Joshua Trees located within the property boundaries and that are also within 75' of the Proposed construction activities:

- **Western Joshua Trees current location in relation to the proposed work**
- **Avoidance/Protection recommendations, if applicable**
- **Determination of potential impact**

Joshua Tree's Potentially Impacted within 75 Feet

- Plant type: Joshua Tree
- Waypoint: 1569
- Coordinates: N34 07.670’ W116° 23.764
- Quantity: 1
- Transplantability: Poor

- Plant type: Joshua Tree
- Waypoint: 1570
- Coordinates: N34° 07.654’ W116° 23.739
- Quantity: 1
- Transplantability: Fair

- Plant type: Joshua Tree
- Waypoint: 1571
- Coordinates: N34° 07.651 W116° 23.735’
- Quantity: 1
- Transplantability: Poor

- Plant type: Joshua Tree
- Waypoint: 1572
- Coordinates: N34° 07.648’ W116° 23.733’
- Quantity: 2
- Transplantability: Poor

- Plant type: Joshua Tree
- Waypoint:1573
- Coordinates: N34° 07.655’ W116°23.730’
- Quantity: 1
- Transplantability: Poor

- Plant type: Joshua Tree
- • Waypoint: 1574
- • Coordinates: N34°07.645’ W116° 23.715’
- Quantity: 2
- Transplantability: Poor

- Plant type: Joshua Tree
- Waypoint: 1575
- Coordinates: N34° 07.644’ W116° 23.712
- Quantity: 1
- Transplantability: Fair

- Plant type: Joshua Tree
- Waypoint: 1576
- Coordinates: N34° 07.638’ W116° 23.734’
- Quantity: 1
- Transplantability: Poor

- Plant type: Joshua Tree
- Waypoint: 1577
- Coordinates: N34° 07.636’ W116° 23.743’
- Quantity: 10
- Transplantability: Poor

- Plant Type: Joshua Tree
- Waypoint: 1578
- Coordinates: N34° 07.634 W116° 23.751’
- Quantity: 1
- Transplantability: Poor

- Plant Type: Joshua Tree
- Waypoint: 1581
- Coordinates:N34° 07.639’ W116° 23.756’
- Quantity: 4
- Transplantability: Fair

- Plant Type: Joshua Tree
- Waypoint: 1582
- Coordinates: N34° 07.645’ W116° 23.767’
- Quantity: 2
- Transplantability: Poor

- Plant Type: Joshua Tree
- Waypoint: 1583
- Coordinates: N34° 07.644 W116° 23.761’
- Quantity: 1
- Transplantability: Poor

- Plant Type: Joshua Tree
- Waypoint: 1584
- Coordinates:N34° 07.660’ W116° 23.744’
- Quantity: 1
- Transplantability: DEAD

- Plant Type: Joshua Tree
- Waypoint: 1585
- Coordinates: N34° 07.651 W116° 23.759’
- Quantity: 1
- Transplantability:DEAD

- Plant Type: Joshua Tree
- Waypoint: 1586
- Coordinates: N34° 07.647 W116° 23.725’
- Quantity: 1
- Transplantability: DEAD

Joshua Tree Survey Data					
Waypoint	**Tree Type**	**Quantity**	**Diameter**	**Height**	**Health**
1569	Joshua Tree	1	9.5”	22ft	Good
1570	Joshua Tree	1	10”	15ft	Good
1571	Joshua Tree	1	16”	22ft	Good
1572	Joshua Tree	2	14”	18ft	Good
1573	Joshua Tree	1	16.5”	18ft	Good
1574	Joshua Tree	1	7.5”	16ft	Good
1575	Joshua Tree	2	7”,1.5”	10ft	Good
1576	Joshua Tree	1	14”	20ft	Good
1577	Joshua Tree	1	16”	14ft	Good
1578	Joshua Tree	3	8”,3”,7”	9/2/6ft	Good
1581	Joshua Tree	3	6”,3.5”,2.5”	6/3.5/2.5ft	Good
1582	Joshua Tree	1	6”	8ft	Fair
1583	Joshua Tree	1	13”	18ft	Good
1584	Joshua Tree	Dead	Dead	Dead	Dead
1585	Joshua Tree	Dead	Dead	Dead	Dead
1586	Joshua Tree	Dead	Dead	Dead	Dead

Construction Site:

*****Disclaimer this is not the Arborist Letter. This is the Site Survey Data Report. The Invoice must be paid in full before the Arborist Letter can be released*****

Desert Arborist Services
Warren A. Miller
P.O. Box 2509
Palm Springs, CA 92263
760-272-7721
January 30, 2025

Blake Rhinehart
Evergreen Design Group, Inc.
1340 Environ Way
Chapel Hill, NC 27517

Subject: Arborist Release Letter for Construction Commencement

Dear Mr. Rhinehart,

I am writing to provide my professional assessment and to formally release the commencement of construction activities at the site located at the intersection of 29 Palms Hwy and Bolsa Ave, Yucca Valley, CA 92284.

Following my review of the job site and discussions with the City of Yucca Valley Planning Department regarding the necessary tree removals, I confirm that there are no pending issues related to the construction and landscape plans involving the remaining 8 Joshua Trees on the property waypoint #1569, 1571, 1574, 1575, 1576, 1577, 1578, and 1582.

Regarding the documented 13 live Joshua Trees, it has been determined that the following 5 trees are to be removed with the appropriate permits obtained: Waypoints #1570, 1572, 1573, 1578, 1583. Furthermore, the removal of 3 dead Joshua Trees at Waypoints #1584, 1585, and 1586 is necessary, with the proper permits also required. Please ensure that all regulations and guidelines related to these removals are strictly followed.

Tree protection measures must be implemented for the remaining Joshua Trees to safeguard them during the construction process. This includes physical barriers and guidelines to ensure their health and preservation throughout the duration of the project.

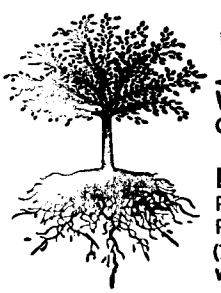
With this letter, you are authorized to proceed with the construction as planned.

Should you require any further assistance or clarification regarding tree care or maintenance during the construction process, please do not hesitate to contact me.

Thank you for your attention to the preservation of our local environment during this project.

Sincerely,

Warren A. Miller
ISA Certified Arborist (WE2001-A)
Desert Arborist Services



1/30/25
Warren Miller Date
Certified Arborist # WE-2001A

Desert Arborist Services
PO Box 2509
Palm Springs, CA 92263
(760) 325-5239
www.desertarboristservices.com

YUCCA VALLEY DUTCH BROS PROJECT

Conditional Use Permit (CUP) 02-25, Environmental Assessment (EA) 03-25 Initial Study

The following Initial Study
has been prepared in compliance with the
California Environmental Quality Act.

Prepared For:

Town of Yucca Valley
58928 Business Center Drive
Yucca Valley, California 92284

Prepared By:

Impact Sciences, Inc.
445 S. Figueroa Street, Suite 2550
Los Angeles, California 90071

March 2026

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I. INTRODUCTION

This Initial Study has been prepared to analyze the potential physical environmental impacts from the implementation of a proposed Dutch Bros coffee shop ("Project") at 58121 Twentynine Palms Highway ("Project Site") in the Town of Yucca Valley ("Town"). The Project proposes the construction and operation of a Dutch Bros Coffee shop with a dual-lane drive-through facility and associated site improvements. The Project is discussed in further detail in **Section 2.0, Project Description,** of this report. In accordance with California Environmental Quality Act (CEQA) (Pub. Res. Code [PRC] § 21000 *et seq.*) and *State CEQA Guidelines* (Cal. Code Regs., tit. 14, § 15000 *et seq.*) Section 15367, the Town of Yucca Valley is the Lead Agency under CEQA for the Project.

1.1 PROJECT INFORMATION

Project Title: Yucca Valley Dutch Bros Project

Project Applicant: Dutch Bros Inc.

Project Location: 58121 Twentynine Palms Highway, Yucca Valley, CA 92284

Lead Agency: Town of Yucca Valley
Community Development Department
58928 Business Center Drive
Yucca Valley, CA 92284

1.2 ORGANIZATION OF INITIAL STUDY

This document consists of the Initial Study (IS) for the Project. This IS comprises five sections, as follows:

I. **Introduction**: This section provides introductory information such as the Project title, Project applicant, lead agency for the Project, and background on CEQA.

II. **Project Description**: This section provides a detailed description of the environmental setting and the Project, including Project characteristics and environmental review requirements.

III. **Environmental Initial Study Checklist and Impact Analysis**: This section contains the completed Appendix G Initial Study Checklist. Each environmental issue identified in the Initial Study Checklist contains an assessment and discussion of impacts associated with each subject area.

IV. **References**: This section provides a listing of sources and information cited in this document.

V. **Initial Study Preparers:** This section provides a listing of those involved in the preparation of this document and persons and agencies consulted.

1.3 PURPOSE OF AN INITIAL STUDY

An Initial Study (IS) is a preliminary analysis conducted by the Lead Agency, in consultation with other agencies (responsible or trustee agencies, as applicable), to determine whether there is substantial evidence to support a fair argument that a project may have a significant effect on the environment.

All projects within the State of California are required to undergo an environmental review to determine the environmental impacts associated with implementation of a project in accordance with CEQA. CEQA was enacted in 1970 by the California legislature to disclose to decision makers and the public the significant environmental effects of proposed activities, as well as ways to avoid or reduce the environmental effects by requiring implementation of feasible alternatives or mitigation measures. CEQA applies to all California governmental agencies at all levels, including local agencies, regional agencies, state agencies, boards, commissions, and special districts.

If the IS concludes that the project, with mitigation, may have a significant effect on the environment, an Environmental Impact Report (EIR) should be prepared; otherwise, the Lead Agency may adopt a Negative Declaration (ND) or a Mitigated Negative Declaration (MND). This IS has been prepared in accordance with Section 15063 of the California Environmental Quality Act (CEQA) Guidelines (Title 14, California Code of Regulations, Sections 15000 et seq.). This IS document evaluates potential environmental effects resulting from implementation of the Project.

As shown in this analysis, the Project may cause potentially significant impacts on the environment, but these impacts can be mitigated to a less than significant level.

1.4 NATIVE AMERICAN CONSULTATION

California Native American tribes traditionally and culturally affiliated with the Project area are required to be consulted pursuant to Public Resources Code (PRC) Section 21080.3.1. On March 11, 2025, in accordance with Assembly Bill 52, the Town provided notice to the following Native American groups for consultation on the Project: Morongo Band of Mission Indians, Quechan Indian Tribe of the Fort Yuma Reservation, Serrano Nation of Mission Indians, Twenty-Nine Palms Band of Mission Indians, and the Yuhaaviatam of San Manuel Nation (YSMN). On October 10, 2025, the Agua Caliente Band of Cahuilla Indians was contacted for an opportunity to consult on the Project. A Sacred Lands File (SLF) records search request was submitted to the Native American Heritage Commission (NAHC) for the Project on October 23, 2025, and a response was received on October 24, 2025 (see **Appendix C**). Consultation on the Project

was requested by the YSMN as well as the Agua Caliente Band of Cahuilla Indians. The results of this consultation are discussed further in **Section 3.3.18, Tribal Cultural Resources**.

1.5 SCOPE OF ENVIRONMENTAL ANALYSIS

For evaluation of environmental impacts, each question from the Environmental Initial Study Checklist contained in Appendix G of the *State CEQA Guidelines* is stated, and responses are provided according to the analysis undertaken as part of the IS.

1.5.1 Thresholds of Significance

The Town has not adopted specific thresholds of significance. Instead, it relies on the topical environmental factors listed in Appendix G to the *State CEQA Guidelines* to determine whether an identified impact may be significant. On a case-by-case basis, the Town may apply specific thresholds of significance, consistent with *Oakland Heritage Alliance v. City of Oakland* (2011) 195 Cal.App.4th 884. For air quality and greenhouse gas emissions, the Town relies on thresholds established by the Mohave Desert Air Quality Management District. For transportation impacts, the Town uses the San Bernardino County "Transportation Impact Analysis Guidelines," which establish CEQA thresholds of significance for vehicle miles traveled (VMT).[1]

1.5.2 Impact Levels

There are four possible responses to the threshold of significance questions in each of the topical environmental factors in **Section 3, Environmental Initial Study Checklist and Impact Analysis**.

1. **No Impact**: No substantial evidence exists to support a fair argument that the Project would have an impact on the environment.

2. **Less than Significant Impact**: Environmental impacts have been identified but are less than the thresholds of significance and do not include or require mitigation measures.

3. **Less than Significant Impact with Mitigation Incorporated**: Environmental impacts have been identified but are less than significant with the incorporation of mitigation measures, thereby reducing an impact from Potentially Significant Impact to a Less Than Significant Impact.

4. **Potentially Significant Impact**: Potentially significant project-level impacts have been identified and require preparation of an EIR.

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1 County of San Bernardino, *Traffic Impact Analysis Guidelines*, July 19, 2019. Available online at: https://www.sbcounty.gov/uploads/DPW/docs/Traffic-Study-Guidelines.pdf, accessed September 23, 2025.

II. PROJECT DESCRIPTION

2.1 PROJECT APPLICANT

The Project Applicant is Dutch Bros Inc. ("Applicant"), which would be responsible for financing, constructing, and operating the proposed facility. The Applicant is a national quick-serve coffee chain specializing in drive-through service.

2.2 ENVIRONMENTAL SETTING

2.2.1 Project Location

The Project Site is located at 58121 Twentynine Palms Highway (State Route 62) in the Town of Yucca Valley, San Bernardino County, California (Assessor's Parcel Number [APN] 0601-416-05). The Project Site encompasses approximately 1.01 gross acres (approximately 44,190 square feet) and is situated along the south side of Twentynine Palms Highway, the primary east-west transportation corridor through the Morongo Basin. **Figure 2.2-1, Regional Vicinity**, illustrates the site's location in a regional context.

The Project Site is currently vacant and undeveloped, except for an existing paved drive aisle at the northern portion of the site that connects two adjacent commercial developments. The topography of the site is generally flat, with no significant slopes, drainage channels, or geologic features. The site supports native desert vegetation, including Western Joshua Trees (*Yucca brevifolia*). As these trees are protected under the California Endangered Species Act, their removal requires an Incidental Take Permit from the California Department of Fish and Wildlife (CDFW). Portions of the site also show evidence of disturbance from illegal off-road vehicle use. **Figure 2.2-2, Aerial Photograph of the Project Site**, shows an aerial photograph of the existing Project Site and surroundings.

2.2.2 Surrounding Land Uses

The Project Site is located along a commercial corridor that includes retail, restaurant, and service-oriented uses. To the east and west, the Project Site is generally bordered by existing commercial development (currently occupied by Walgreens and Big 5 Sporting Goods, respectively). To the north, across Twentynine Palms Highway, is a large commercial development anchored by a grocery store with developed retail outpads, and to the south is undeveloped land, and across Balsa Avenue are single-family residences.

2.2.3 Existing Zoning and Land Use Designations

The Project Site and the parcels directly west, south, and east of the Project Site are zoned Mixed-Use Commercial (C-MU) and designated Mixed Use (MU) by the Town's General Plan. The area to the south across Balsa Avenue is zoned Residential, Single-Family (R-S-2) and designated Rural Residential with half-acre minimum lots (RR-0.5), and the area to the north across Twentynine Palms Highway is zoned for Neighborhood Commercial (C-N) and designated Commercial (C).

2.3 DESCRIPTION OF THE PROJECT

2.3.1 Project Overview

The Project proposes the construction and operation of an approximately 1,025-square-foot Dutch Bros Coffee shop with a dual-lane drive-through facility and associated site improvements. The drive-through is designed to accommodate 23 queued vehicles. In addition to on-site improvements, the Project would contribute in-lieu fees toward off-site roadway improvements consistent with the Town's circulation plans, specifically, the widening of Twentynine Palms Highway to an ultimate half-width of 67 feet along the Project frontage. The future widening of Twentynine Palms Highway would be undertaken at a later date by the Town of Yucca Valley Public Works/Engineering Department and the San Bernardino County Transportation Authority. Construction of the Project would also necessitate the removal of existing Western Joshua Trees (*Yucca brevifolia*) on-site. **Figure 2.3-1, Conceptual Site Plan**, illustrates the Project's proposed site plan.

2.3.2 Operation

Operation of the Project would entail a drive-through-focused quick-service coffee shop with limited walk-up service and no indoor seating. Land uses, such as the Project, are conditionally permitted in the C-MU zone. The Project is anticipated to operate daily between the hours of 5:00 AM and 11:00 PM. The Project is expected to employ approximately 24 to 32 people, with 6 to 8 employees working per shift. Supply deliveries would occur via small box trucks during off-peak hours.

2.3.3 Architectural Design

The Project incorporates the contemporary commercial design that is characteristic of recent Dutch Bros Coffee developments. The single-story structure would have a finished floor elevation at grade and a maximum building height of approximately 24 feet at the top of the parapet. A secondary parapet height of approximately 21 feet would also be incorporated into the design to provide articulation and to screen rooftop mechanical equipment. All rooftop mechanical units would be fully screened from public views by

the parapet walls. Canopy projections and awnings would extend over customer service areas. Prefabricated metal awnings would be installed above the drive-thru and walk-up service windows, providing weather protection and architectural articulation.

The interior floor plan would include a production area, a walk-in cooler, a small office, and a restroom. These spaces are arranged to support efficient drive-through and walk-up operations, with the production area centrally located to serve both customer service windows. The walk-in cooler would be positioned for direct access from the production area, while the office and restroom would be located toward the rear of the building. **Figure 2.3-2, Conceptual Floor Plan**, illustrates the Project building's floor plan.

The building exterior would be finished with stucco, fiber cement siding, cultured stone veneer, metal canopy elements, and painted accents, consistent with the Dutch Bros Coffee brand identity of blue, dark gray, classic light buff, and beige. The roofing system would utilize a single-ply membrane, providing a durable, energy-efficient roof surface. **Figure 2.3-3, Conceptual Elevations**, provides renderings of the building elevations.

2.3.4 Access and Circulation

Site access would be provided from two existing driveways that currently serve adjacent commercial developments. One driveway is located along Twentynine Palms Highway and provides access to the Big 5 Sporting Goods store to the west, while the second driveway is located along Balsa Avenue in proximity to the Walgreens store to the east. Project customers and employees would enter the Project Site from the existing internal drive aisle that connects the two commercial developments and integrate circulation with the surrounding uses. In addition, the Project would include a new drive aisle along the southern perimeter of the Project Site, providing direct access to the Project Site from the existing surface parking lot of the Walgreens to the east.

Internal circulation would allow vehicles to either park in the designated parking area or enter the drive-through lanes, which wrap around the southern portion of the site and direct vehicles northward to exit into adjacent parking lots and back to surrounding roadways. The Project would provide a total of 18 parking spaces (3 future electric vehicle charging stations [EVCS], 1 accessible EVCS, 1 accessible, 13 standard).

2.3.5 Landscaping

The Project would incorporate approximately 10,350 square feet of landscaping and would retain 2,808 square feet of existing landscaping near Twentynine Palms Highway. The landscape design emphasizes drought-tolerant, desert-appropriate plantings consistent with Chapter 9.32, Landscaping and Water

Conservation, of the Yucca Valley Municipal Code (YVMC), the State of California's Model Water Efficient Landscape Ordinance (MWELO) as referenced in Section 6.02.580 of the YVMC, and the Water Use Classification of Landscape Species (WUCOLS) guidelines.

Proposed trees include Swan Hill fruitless olive and Mexican palo verde, which can reach mature size of approximately 25 feet in height and width. Shrub and accent plantings would include desert agave, purple threeawn, grey desert spoon, California buckwheat, Texas sage, deer grass, and jojoba. Texas sage would be installed at a height of approximately 36 inches at the time of planting to provide immediate screening and visual structure along the eastern property line, specifically to screen car headlights, and shrubs would be used to screen the trash enclosure.

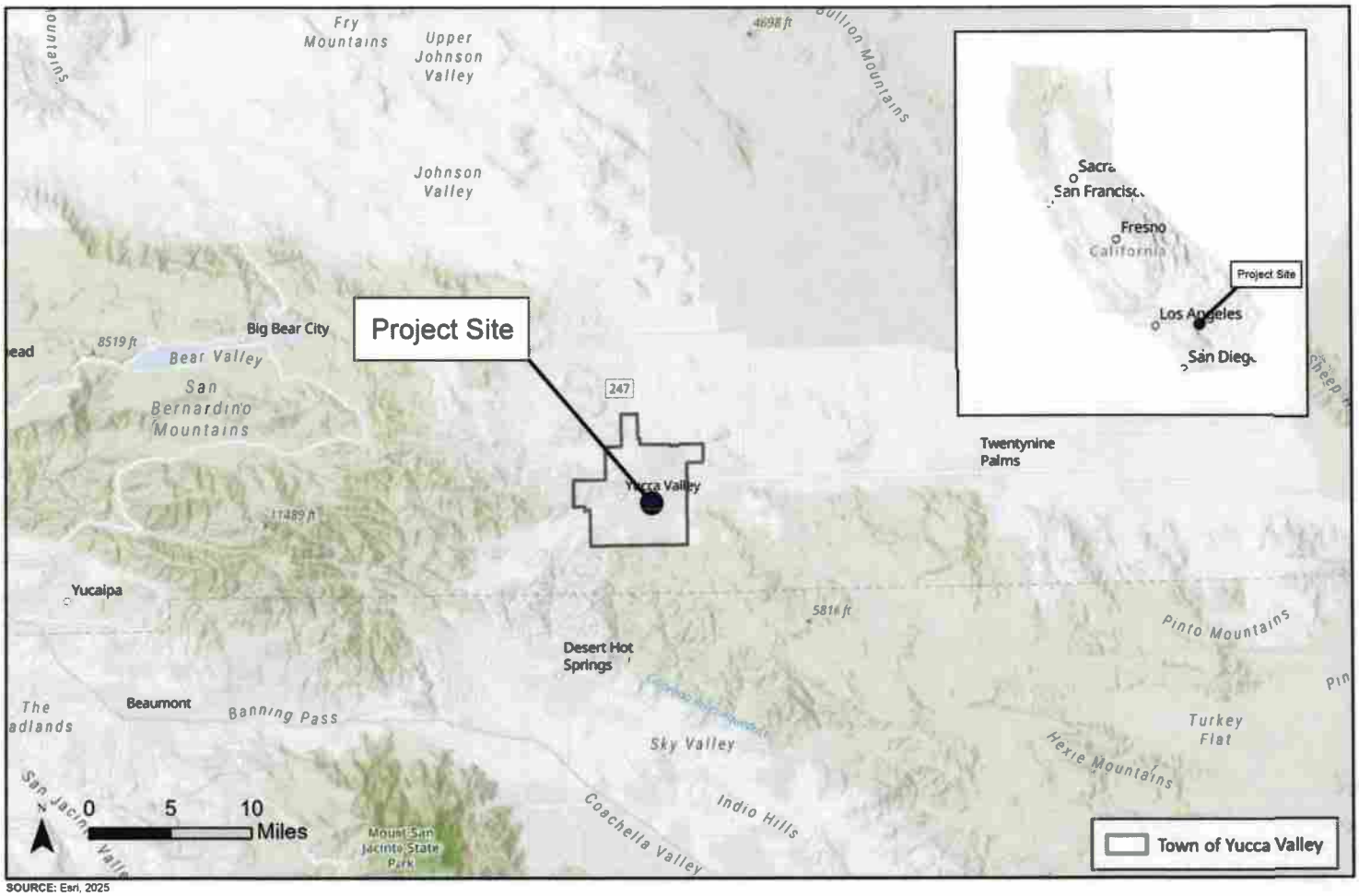
Groundcover treatments would consist of approximately 1,498 square feet of decorative local cobble placed over landscape fabric. This treatment would provide a low-maintenance, water-efficient groundcover for a desert climate.

2.3.6 Lighting

The Project would include new exterior lighting designed to provide safety and security for customers and employees. The lighting plan incorporates a combination of wall-mounted and canopy-mounted fixtures, generally located at approximately 8 feet above finished grade, along with pole-mounted fixtures where appropriate. All lighting would use energy-efficient technology, be fully shielded, and be directed downward in compliance with Chapter 8.70 of the YVMC to minimize light spillover and skyglow. House-side shielding would further ensure that illumination remains focused on the Project Site and does not intrude into adjacent residential areas to the south. In addition, lighted signage would be installed by a licensed sign contractor and coordinated with electrical service connections.

2.3.7 Utilities and Service Providers

Utility services would be provided by existing infrastructure in the area. Southern California Edison would provide electricity, natural gas (if utilized) would be provided by the Southern California Gas Company, water and sewer services would be provided by the Hi-Desert Water District, and solid waste collection would be provided by Burrtec Waste & Recycling. Telecommunications services would be provided by local carriers serving the area. The Project would connect to existing utility lines that currently serve the adjacent commercial uses.



SOURCE: Esri, 2025

FIGURE **2.2-1**

IMPACT SCIENCES

Regional Vicinity

1590.003•10/25

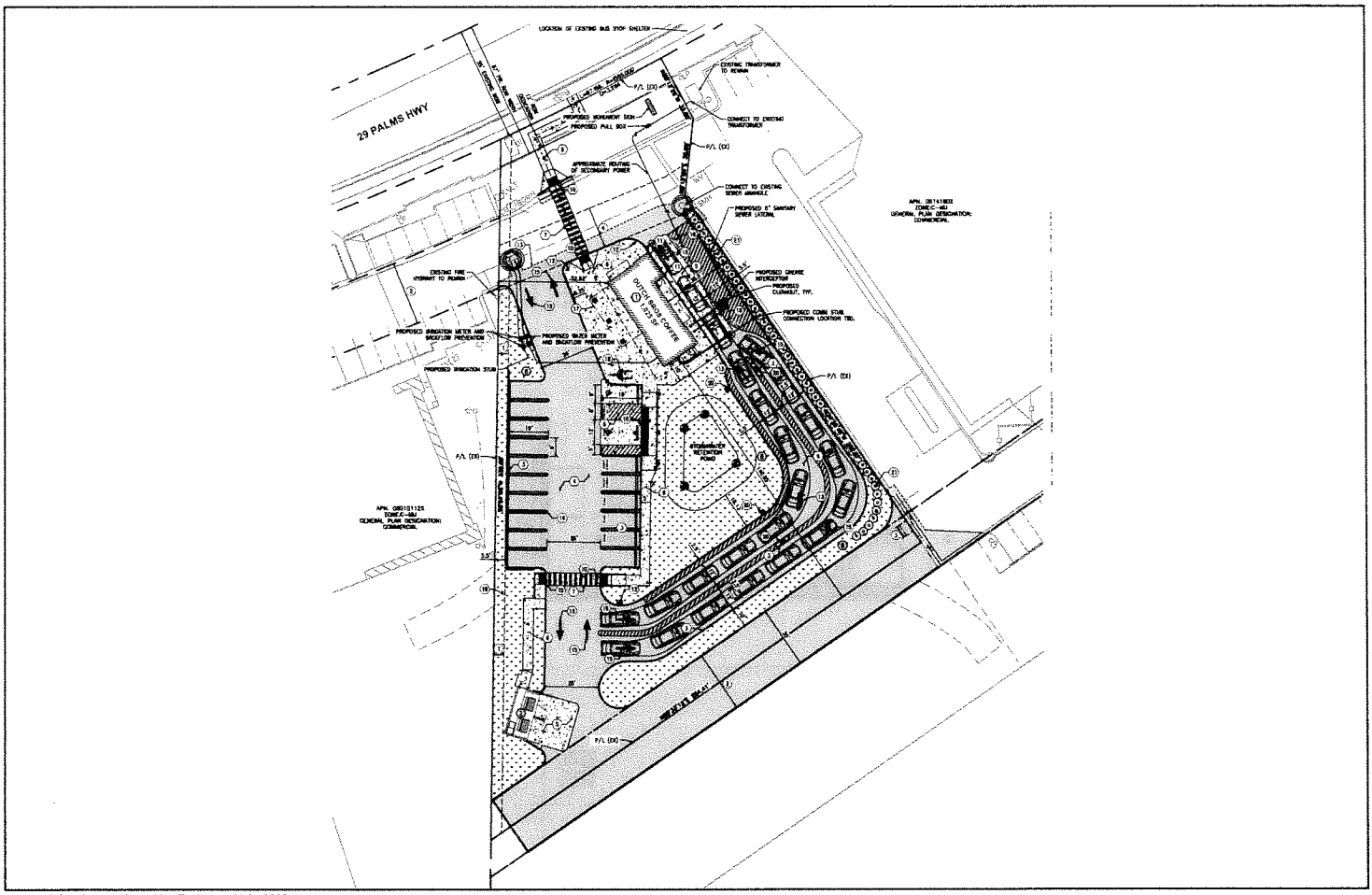
SOURCE: Esri, 2025

FIGURE 2.2-2

Aerial Photograph of the Project Site

IMPACT SCIENCES

1590.003•10/25



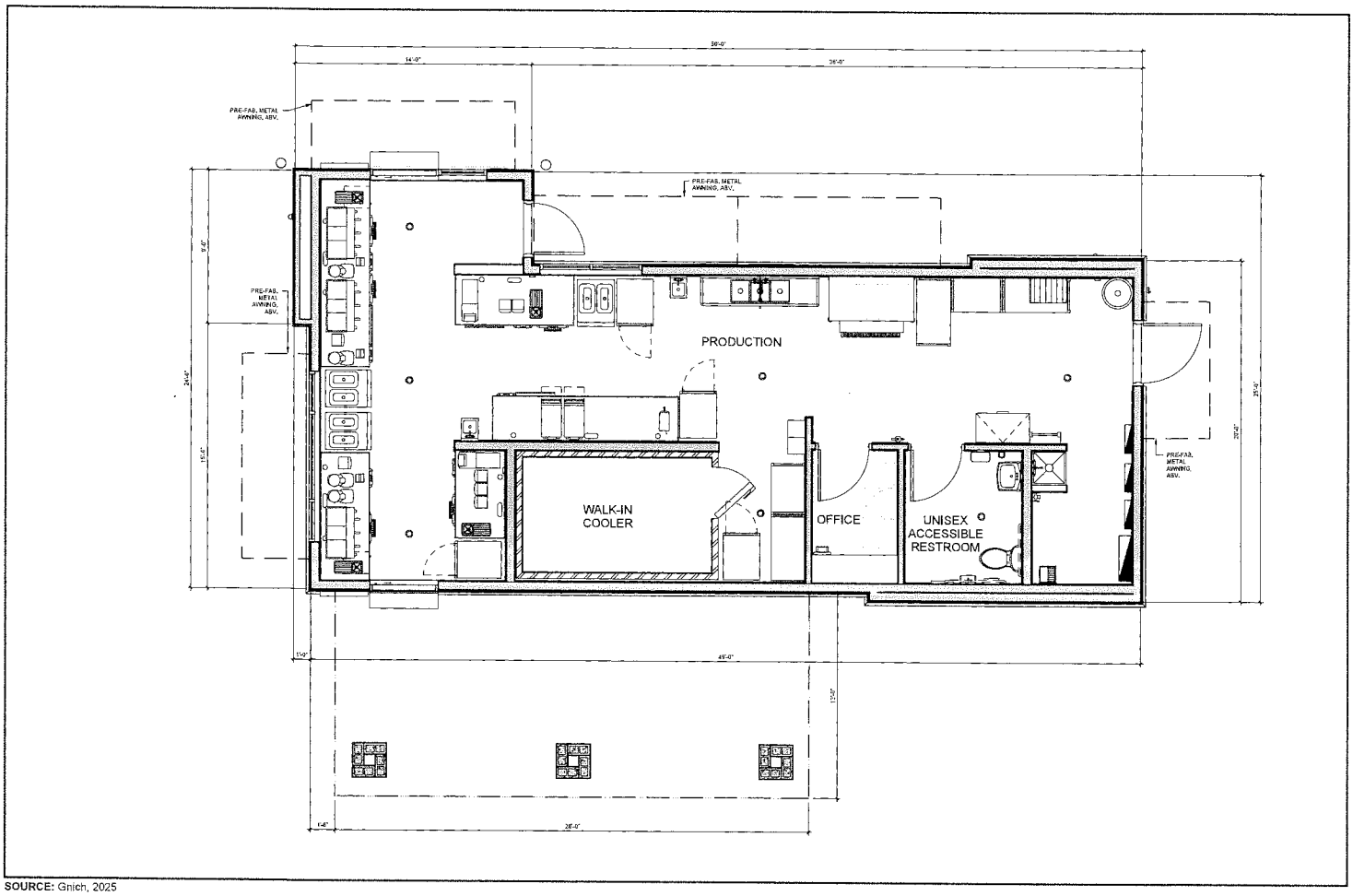
SOURCE: Barghausen Consulting Engineers, LLC., 2025

FIGURE **2.3-1**

IMPACT SCIENCES

Conceptual Site Plan

1590.003•10/25



SOURCE: Gnich, 2025

FIGURE **2.3-2**

IMPACT SCIENCES

Conceptual Floor Plan

1590.003•10/25

SOURCE: Gnich, 2025

FIGURE **2.3-3**

IMPACT SCIENCES

Elevations

1590.003•10/25

2.3.8 Stormwater Management

The Project includes an on-site stormwater management system designed to capture, detain, and treat runoff generated during storm events. The system includes a proposed stormwater retention pond located near the center of the Project Site, positioned between the parking lot and the dual drive-through lanes. The retention pond would address water quality and flow control for post-development runoff to not exceed pre-development conditions.

Roof drainage would be managed through downspouts connected to on-site storm drain facilities or trench drains, discharging to the drive aisle. Stormwater from paved areas, including the parking lot and drive-through lanes, would be directed to a series of catch basins and underground storm drainpipes that convey flows to the retention pond. The pond is designed to temporarily hold runoff, allowing sediments and pollutants to settle before water infiltrates into the ground or is released in a controlled manner in compliance with the Town of Yucca Valley's stormwater requirements and the National Pollutant Discharge Elimination System (NPDES) program.

The retention pond would be landscaped with drought-tolerant plantings consistent with the Project's overall landscape plan. Maintenance of the pond would be the responsibility of the Applicant to ensure long-term performance and compliance with applicable stormwater regulations.

2.3.9 Construction

For the purpose of evaluating potential environmental impacts, this report assumes that construction of the Project would begin in 2026 and extend over a period of approximately five (5) months following issuance of the Incidental Take Permit for the removal of the Western Joshua Trees, with full operation anticipated in 2026. This schedule is considered conservative and is intended to capture the maximum potential daily impacts associated with construction activities.

Construction would occur in three primary stages: (1) debris removal, (2) grading and foundation preparation, and (3) building construction. All equipment and construction staging would occur within the boundaries of the Project Site. The grading plan for the Project anticipates approximately 1,000 cubic yards of cut and 200 cubic yards of fill, resulting in a net export of approximately 800 cubic yards of soil.

The debris removal stage would involve clearing the site and preparing it for grading, which would then be immediately followed by grading and foundation preparation. Debris removal and grading/foundation stages are expected to last approximately five (5) weeks. This stage would establish building pads, prepare utility connections, and level the site. The building construction stage would then proceed over approximately four (4) months and would include construction of the coffee shop structure, installation of

utilities, application of architectural coatings, and paving of the Project Site. Architectural coating and paving activities are expected to occur during the final month of the construction stage.

Consistent with the assumptions included within the California Emissions Estimator Model (CalEEMod), the following maximum daily equipment by stage will be assumed.

- Demolition/debris removal: 1 concrete industrial saw, 1 rubber-tired dozer, 2 tractors/loader/backhoes
- Grading: 1 grader, 1 rubber-tired dozer, 1 tractor/loader/backhoe
- Building Construction: 1 crane, 2 forklifts, 2 tractors/loaders/backhoes
- Paving: 4 cement and mortar mixers, 1 paver, 1 roller, 1 tractor/loader/backhoe
- Architectural Coating: 1 air compressor

2.4 DISCRETIONARY ACTIONS AND APPROVALS

To permit development of the Project, the following discretionary actions are required:

2.4.1 Town of Yucca Valley

- Approval of a Conditional Use Permit 02-25 to allow the Project in the C-MU zone.
- Approval of Environmental Assessment 03-25.
- Issuance of ministerial permits, including grading and building permits.

California Department of Fish and Wildlife Region 6

- Incidental Take Permit for the removal of Western Joshua Trees.

2.4.2 State Water Resources Control Board

- NPDES Construction General Permit (SWPPP) for ground disturbance greater than one acre.

III. ENVIRONMENTAL INITIAL STUDY CHECKLIST AND IMPACT ANALYSIS

3.1 ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

The environmental factors checked below would be potentially affected by this Project, involving at least one impact that is a "Potentially Significant Impact" as indicated by the checklist on the following pages.

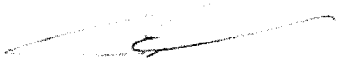
☐	Aesthetics	☐	Agriculture and Forestry Resources	☐	Air Quality
☒	Biological Resources	☒	Cultural Resources	☐	Energy
☒	Geology and Soils	☐	Greenhouse Gas Emissions	☐	Hazards and Hazardous Materials
☐	Hydrology and Water Quality	☐	Land Use and Planning	☐	Mineral Resources
☐	Noise	☐	Population and Housing	☐	Public Services
☐	Recreation	☐	Transportation	☒	Tribal Cultural Resources
☐	Utilities and Service Systems	☐	Wildfire	☐	Mandatory Findings of Significance

3.2 DETERMINATION: (TO BE COMPLETED BY THE LEAD AGENCY)

On the basis of this initial evaluation:

I find that the Proposed Project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.	☐
I find that, although the Proposed Project could have a significant effect on the environment, there will not be a significant effect in this case because the mitigation measures described on an attached sheet have been added to the Project. A MITIGATED NEGATIVE DECLARATION will be prepared.	☒
I find that the Proposed Project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.	☐
I find that the Proposed Project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.	☐

I find that although the Proposed Project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the Proposed Project, nothing further is required.	☐

Jared Jerome	Senior Planner
Printed Name	Title
	3/3/2026
Signature	Date

3.3 ENVIRONMENTAL IMPACT ANALYSIS

3.3.1 Aesthetics

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
Except as provided in Public Resources Code section 21099:				
a. Would the project have a substantial adverse effect on a scenic vista?	☐	☐	☐	☒

No Impact. A scenic vista is generally defined as a view of undisturbed natural characteristics exhibiting a unique feature that comprises an important or dominant portion of the viewshed. Although scenic vistas are identified at the discretion of its jurisdiction, common examples of scenic vistas include open hillsides, mountain ranges, rivers/streambeds, and large bodies of water.

The Town's General Plan Open Space and Conservation Element does not identify specific scenic resources within the Town, but does specify scenic resources that are valued by the Town's residents that are outside the Town Limits and planning area boundary. These areas include the views of the Little San Bernardino Mountains of the Peninsular Ranges, the San Bernardino Mountains on the easternmost of the Transverse ranges surrounding the Town, and Yucca Valley's hillside areas.[2] While the Open Space and Conservation Element does not officially identify any scenic routes or highways in the Town, Yucca Valley does contain one eligible scenic highway and one partially designated scenic highway: State Route 62 (Twentynine Palms Highway) and State Route 247, respectively.[3] A segment of State Route 247, approximately four miles northwest of the Project Site, is officially designated as a State Scenic Highway, while other portions near the Project Site are eligible for designation.

The Project Site is currently vacant and is largely surrounded by existing urban development. Given the existing conditions of the Project Site and its distance from the identified scenic vistas and routes, the Project

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2 Town of Yucca Valley, *Town of Yucca Valley General Plan: Open Space and Conservation Element*, February 4, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/2596/637009395718470000, accessed September 30, 2025.

3 California Department of Transportation, "California State Scenic Highway System Map." Available online at: https://caltrans.maps.arcgis.com/apps/webappviewer/index.html?id=465dfd3d807c46cc8e8057116f1aacaa, accessed February 27, 2026.

would not have the potential to substantively alter existing private or public viewsheds, the Project would not have a substantial adverse impact on any scenic resource, and no impacts would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	☐	☐	☐	☒

No Impact. As previously discussed in **Section 3.3.1a**, above, State Route 62 is eligible for being designated as a Scenic Highway, and State Route 247 is eligible for designation in some segments, while a segment approximately four miles northwest of the Project Site is officially designated as a State Scenic Highway.[4] Access to State Route 247 is approximately one mile west of the Project Site and is not visible from the Project Site; this segment is eligible, but not officially designated as a State Scenic Highway. While the State Route 62 route runs along the northern end of the Project Site, the Project would not damage scenic resources that may be found along this route, as the Project does not propose any curb cuts or driveway changes to State Route 62. There are no scenic resources, trees, rock outcroppings, or historic buildings present within the portion of State Route 62 that would be impacted by the Project. Therefore, no impact would occur.

Mitigation Measures: No mitigation measures are required.

4 *Ibid.*

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. Would the project, in non-urbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from a publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?	☐	☐	☒	☐

Less Than Significant Impact. The Project Site and the surrounding area are considered an urbanized area.[5] Surrounding properties include commercial uses as well as single-family housing. Although the construction activities associated with the Project would result in changes to the visual quality of the Project Area, these activities would be temporary and would cease upon completion of the Project. The Project would be constructed in accordance with the Town's design regulations for commercial uses. The height and scale of the facility would be consistent with the surrounding commercial development. Therefore, impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. Would the project create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	☐	☐	☒	☐

Less than Significant Impact. Light emanating from building interiors that pass through windows and light from exterior sources (i.e., street lighting, building illumination, security lighting, and landscape lighting) serve as primary sources of light.

5 According to *State CEQA Guidelines* Section 15387 an "urbanized area" means a central city or a group of contiguous cities with a population of 50,000 or more, together with adjacent densely populated areas having a population density of at least 1,000 persons per square mile.

The Project involves the construction of a new Dutch Bros coffee shop with a drive-through. The Project Site is located within an urban and developed area of the Town and is largely surrounded by commercial uses. Due to the exterior nighttime lighting of these uses, along with the existing light poles around the northern perimeter of the Project Site, a moderate level of ambient nighttime light already exists. Given that the Project Site is undeveloped, the proposed Project would introduce new sources of light. However, this new source of light and glare would be similar to existing conditions from nearby uses. Further, the installation and use of onsite lighting would be required to comply with Section B of Section 8.70.030, *Outdoor Lighting Fixtures*, of the YVMC, which states that there any new construction located in any commercial or industrial land use district shall be fully shielded or recessed in such a manner as to preclude adverse impacts to adjacent property as a result of light trespass, or to any member of the public who may be traveling on adjacent roadways or rights of way.[6] Therefore, impacts from light and glare from the proposed Project would be less than significant.

Mitigation Measures: No mitigation measures are required.

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6 Town of Yucca Valley, Yucca Valley Municipal Code Section 8.70.030: *Outdoor Lighting Fixtures*. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-2483, accessed September 30, 2025.

3.3.2 Agricultural Resources

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?	☐	☐	☐	☒

No Impact. According to the California Department of Conservation's California Important Farmland Finder, the Project Site does not contain any land classified as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance.[7] Further, the Project Site is zoned for Mixed Use Commercial, which generally does not allow agricultural uses.[8] Thus, the Project would not convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance to non-agricultural use. No impact would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project conflict with existing zoning for agricultural use, or a Williamson Act contract?	☐	☐	☐	☒

No Impact. Only land located within an agricultural preserve is eligible for enrollment under a Williamson Act contract. According to the California Department of Conservation, California Williamson Act Enrollment Finder,[9] there is no land in the Town enrolled under a Williamson Act contract. There is currently no land within the Town zoned for agricultural use nor enrolled under a Williamson Act contract.

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7 California Department of Conservation, "California Important Farmland Finder." Available online at: https://maps.conservation.ca.gov/dlrp/ciff/, accessed October 1, 2025.

8 Town of Yucca Valley, *Yucca Valley Municipal Code*, Chapter 9.09: Commercial Districts. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-14867, accessed October 1, 2025.

9 California Department of Conservation, "Williamson Act Program." Available online at: https://www.conservation.ca.gov/dlrp/lca, accessed on October 1, 2025.

Therefore, the Project would not conflict with existing agricultural zoning or a Williamson Act Contract, and no impact would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. Would the project conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code Section 12220 (g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104 (g))?	☐	☐	☐	☒

No Impact. The Town does not contain any forest land (as defined by PRC § 12220(g)), timberland (as defined by PRC § 4526), or timberland zoned for Timberland Production (as defined by Government Code § 51104(g)).[10] Approval of the Project would not conflict with the General Plan, existing zoning, or cause rezoning of forest land, timberland, or timberland zoned Timberland Production. No impact would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. Would the project result in the loss of forest land or conversion of forest land to a non-forest use?	☐	☐	☐	☒

No Impact. See response to **Section 3.3.2.c**, above.

Forest land is defined as "...land that can support 10-percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits."[11] Timberland is defined as: "land...which is available for, and capable of, growing a crop of trees

10 California Department of Fish and Wildlife, "California Forests and Timberlands." Available online at: https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109919, accessed October 1, 2025.

11 California Public Resources Code (PRC), Section 12220(g).

of any commercial species used to produce lumber and other forest products, including Christmas trees."[12] There is no identified forest land or timberland within the Town, and implementation of the Project would not result in a loss of forest land or timberland. No impact would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
e. **Would the project involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?**	☐	☐	☐	☒

No Impact. Implementation of the Project would not result in the conversion of farmland or forest land to non-agricultural or non-forest land use. No impact would occur.

Mitigation Measures: No mitigation measures are required.

12 PRC, § 4526.

3.3.3. Air Quality

The following is a summary of the Project's Air Quality Technical Report, included as **Appendix A, Air Quality Technical Report,** to this document.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project conflict with or obstruct implementation of the applicable air quality plan?	☐	☐	☒	☐

Less than Significant Impact. As part of its enforcement responsibilities, the U.S. Environmental Protection Agency (U.S. EPA) requires each state with nonattainment areas to prepare and submit a State Implementation Plan (SIP) that demonstrates the means to attain the federal standards. The SIP must integrate federal, state, and local plan components and regulations to identify specific measures to reduce pollution in nonattainment areas, using a combination of performance standards and market-based programs. Similarly, under state law, the California Clean Air Act (CCAA) requires an air quality attainment plan to be prepared for areas designated as nonattainment with regard to the federal and state ambient air quality standards. Air quality attainment plans outline emissions limits and control measures to achieve and maintain these standards by the earliest practical date.

As previously discussed, according to the Mojave Desert Air Quality Management District (MDAQMD), if a project does not exceed the thresholds established by the MDAQMD, the project would be deemed to be consistent with applicable attainment or maintenance plans. Additionally, if the project is consistent with the existing land use plan designation, it is considered to be consistent with the applicable attainment or maintenance plans. As demonstrated in **AQ Impact b**, below, the Project would not exceed the thresholds established by the MDAQMD; further, the Project is consistent with the land use and zoning for the Project Site. The Project Site is designated as Mixed Use (MU) and is zoned for Mixed-Use Commercial (C-MU). Commercial land uses support local- and regional-serving retail and service uses, including uses such as shopping centers and malls, small commercial centers, hotels, commercial recreation uses such as movie theaters and bowling alleys, restaurants, supermarkets, and personal services. Fast food (with drive-through, delivery) is permitted in the C-MU zone only with a conditional use permit (CUP).[13] Therefore,

13 Town of Yucca Valley, *YVMC: Chapter 9.09: Commercial Districts*. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-14877, accessed November 10, 2025.

the Project would not conflict with or obstruct the implementation of any air quality plan established by the MDAQMD.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	☐	☐	☒	☐

Less than Significant Impact. A project may have a significant impact if project-related emissions would result in a cumulatively considerable net increase for a criteria pollutant for which the region is in nonattainment under applicable federal or state ambient air quality standards.

Construction Significance Analysis

For purposes of this analysis, it is estimated that the Project would be constructed in approximately 5 months, with construction beginning in 2026 and project operations commencing in the same year. While construction may begin at a later date and/or take place over a longer period, these assumptions represent the earliest and fastest build-out potential, resulting in a worst-case daily impact scenario for purposes of this analysis. This analysis assumes construction would be undertaken with the following primary construction phases: (1) debris clearing/foundation preparation, (2) grading, and (3) building construction. The Project would also require paving and architectural coatings, which have conservatively been assumed to occur concurrently during the final month of the building construction phase.

The analysis of regional daily construction emissions has been prepared utilizing the CalEEMod computer model. Predicted maximum daily construction-generated emissions for the Project are summarized in **Table 3.3-1, Construction-Related Criteria Pollutant and Precursor Emissions.** These calculations assume that appropriate dust control measures would be implemented as part of the Project during each phase of development, as specified by MDAQMD Rule 403 (Fugitive Dust). As shown in **Table 3.3-1,** the peak daily emissions generated during the construction of the Project would not exceed any of the emission thresholds recommended by the MDAQMD. Therefore, Project construction would not result in a cumulatively considerable net increase of any criteria air pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard.

Table 3.3-1
Construction-Related Criteria Pollutant and Precursor Emissions

Maximum Pounds Per Day						
Construction Year	**ROG**	**NOx**	**CO**	**SO_2**	**PM10**	**PM2.5**
2026	1.60	13.00	15.00	0.02	7.90	4.00
Threshold	**137**	**137**	**548**	**137**	**82**	**65**
Exceed?	*No*	*No*	*No*	*No*	*No*	*No*
Maximum Annual Emissions (short tons)*						
Construction Year	**ROG**	**NOx**	**CO**	**SO_2**	**PM10**	**PM2.5**
2026	0.05	0.43	0.54	< 0.01	0.10	0.06
Threshold	**25**	**25**	***100***	**25**	**15**	**12**
Exceed?	*No*	*No*	*No*	*No*	*No*	*No*

*Source: Impact Sciences, November 2025. See **Appendix A**. Emissions shown are the highest daily maximum from either the summer or winter season.*
**In CalEEMod, criteria pollutants are represented in pounds per day for daily values, and tons per year for annual values. For clarity purposes, a "ton" and a "short ton" are both equivalent to 2,000 pounds.*
Note: Project emissions account for the reductions from MDAQMD Rule 403 (Fugitive Dust).

Operational Significance Analysis

Project-generated emissions would be associated with motor vehicle use, energy use, and area sources, such as the use of natural-gas-fired appliances, landscape maintenance equipment, consumer cleaning products, and architectural coatings associated with the operation of the Project. The operational emissions from the Project were calculated with CalEEMod, and the operational emissions were compared against MDAQMD thresholds to determine Project significance. Long-term operational emissions attributable to the Project are summarized in **Table 3.3-2, Long-Term Operational Emissions**. As shown, the operational emissions generated by the Project would not exceed the regional thresholds of significance set by the MDAQMD.

Table 3.3-2
Long-Term Operational Emissions

Maximum Pounds Per Day						
Source	**ROG**	**NOx**	**CO**	**SO_2**	**PM10**	**PM2.5**
Mobile Source	2.00	2.50	22.00	0.05	4.50	1.20
Area Source	0.03	< 0.01	0.04	< 0.01	< 0.01	< 0.01
Energy Use	< 0.01	0.03	0.03	< 0.01	< 0.01	< 0.01
Total	*2.04*	*2.54*	*22.07*	*0.07*	*4.52*	*1.22*
Threshold	**137**	**137**	**548**	**137**	**82**	**65**
Exceed?	*No*	*No*	*No*	*No*	*No*	*No*
Maximum Annual Emissions (short tons)*						
Source	**ROG**	**NOx**	**CO**	**SO_2**	**PM10**	**PM2.5**
Mobile	0.27	0.26	1.90	< 0.01	0.40	0.11
Area Source	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Energy Use	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total	*0.29*	*0.28*	*1.92*	*< 0.03*	*0.42*	*0.13*
Threshold	**25**	**25**	**100**	**25**	**15**	**12**
Exceed?	*No*	*No*	*No*	*No*	*No*	*No*

Source: Impact Sciences, November 2025. See ***Appendix A****. Emissions shown are the highest daily maximum from either the summer or winter season.*
**In CalEEMod, criteria pollutants are represented in pounds per day for daily values, and tons per year for annual values. For clarity purposes, a "ton" and a "short ton" are both equivalent to 2,000 pounds.*

As shown in **Table 3.3-1** and **Table 3.3-2**, the Project's construction and operational emissions would not exceed the MDAQMD's thresholds for any criteria air pollutants. Thus, the Project would also not result in a cumulatively considerable net increase of any criteria air pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard. These impacts are less than significant.

Air Quality Health Impacts

On December 24, 2018, the California Supreme Court published its opinion in *Sierra Club et al. v. County of Fresno et. al.* (Case No. S219783), which determined that an environmental review must adequately analyze a project's potential impacts and inform the public how its bare numbers translate to a potential adverse health impact or explain how existing scientific constraints cannot translate the emissions numbers to the potential health impacts.

Criteria air pollutants are defined as those pollutants for which the federal and state governments have established air quality standards for outdoor or ambient concentrations to protect public health. The

national and state ambient air quality standards have been set at levels to protect human health with a determined margin of safety. As discussed previously, the Basin is in state non-attainment for PM2.5, PM10, and Ozone (O_3) and federal non-attainment for PM10 and O_3. Therefore, an increase in emissions of particulate matter or ozone precursors (ROG and NOx) has the potential to push the region further from reaching attainment status, and, as a result, these pollutants are the greatest concern in the region. As noted in **Table 3.3-1** and **Table 3.3-2** above, the Project will emit criteria air pollutants during construction and operation. However, the Project will not exceed MDAQMD thresholds for ozone precursors (ROG and NOx), PM2.5, PM10, or any other criteria air pollutants, and will not result in a cumulatively significant impact for which the region is in non-attainment. With respect to the Project's increase in criteria pollutant emissions, the Project would not have the potential to cause significant air quality health impacts. Therefore, impacts are less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. Would the project expose sensitive receptors to substantial pollutant concentrations?	☐	☐	☒	☐

Less Than Significant Impact. Based on the MDAQMD Guidelines, a significant impact may occur if a project were to generate pollutant concentrations to a degree that would significantly affect sensitive receptors.

Project impacts related to increased community risk could occur by introducing a new source of localized pollutants during construction and operation, with the potential to adversely affect existing sensitive receptors in the Project vicinity. According to the MDAQMD, residences, schools, daycare centers, playgrounds, and medical facilities are considered to be sensitive receptor land uses. The following project types proposed for sites within the specified distance to an existing or planned (zoned) sensitive receptor land use must be evaluated using significance threshold criteria number four per MDAQMD Guidelines:[14]

- Any industrial project within 1,000 feet
- A distribution center (40 or more trucks per day) within 1,000 feet
- A major transportation project (50,000 or more vehicles per day) within 1,000 feet

14 MDAQMD, "CEQA and Federal Conformity Guidelines." Available online at: https://www.mdaqmd.ca.gov/home/showpublisheddocument/8510/638126583450270000, accessed November 10, 2025.

- A dry cleaner using perchloroethylene within 500 feet
- A gasoline dispensing facility within 300 feet

The Project is not proposing to develop any of the project types listed above and will not be required to be evaluated against MDAQMD significance threshold criteria number four. The closest air quality sensitive receptors would be the single-family residences 228 feet to the south of the Project Site.

The primary sources of potential TACs under the Project would be construction activity and the associated generation of diesel particulate matter (DPM) emissions from the use of off-road diesel equipment required for grading, paving, and other construction activities. The amount to which nearby sensitive receptors are exposed (a function of concentration and duration of exposure) is the primary factor used to determine health risk. Health-related risks associated with diesel exhaust emissions are primarily linked to long-term exposure and the associated risk of contracting cancer. Construction of the Project would not have the potential to generate large amounts of DPM since a minimal amount of daily heavy construction equipment will be utilized, and the overall construction duration would be short (approximately 5 months). Furthermore, the low levels of diesel exhaust would primarily be emitted during the grading/foundational preparation phase, which is anticipated to last only one month total. Average daily diesel exhaust emissions generated on-site during the 4 months of building construction would be negligible. Emissions generated from the development of the Project are temporary and localized and would cease upon completion of construction. This impact would be less than significant.

Operation

Project-operation impacts related to increased health risk can occur either by introducing a new source of TACs with the potential to adversely affect existing sensitive receptors, or by introducing a new sensitive receptor, such as a residential use, in proximity to an existing source of TACs.

The Project does not include any stationary sources of TAC emissions, and most vehicles associated with the operation of the Project would run on gasoline and not diesel, which is the primary source of TACs and DPM. Therefore, operation of the Project would not generate TAC or PM2.5 emissions that could affect the health of sensitive receptors. As such, the Project would not contribute to human health risk to nearby receptors during operation, and the Project would not contribute to any cumulative human health risk impact.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	☐	☐	☒	☐

Less Than Significant Impact. According to CARB's CEQA Air Quality Handbook, land uses often associated with odors include agriculture (farming and livestock), wastewater treatment plants, food processing plants, chemical plants, composting facilities, refineries, landfills, dairies, and fiberglass molding. The Project would not include any of the land uses that have been identified by CARB as odor sources.

Construction activities associated with the Project may generate detectable odors from heavy-duty equipment exhaust and architectural coatings. However, construction-related odors would be short-term in nature and cease upon Project completion. In addition, the Project would be required to comply with the California Code of Regulations, Title 13, sections 2449(d)(3) and 2485, as well as YVMC Section 9.34.040, which minimizes the idling time of construction equipment either by shutting it off when not in use or by reducing the time of idling to no more than five minutes. This would reduce the detectable odors from heavy-duty equipment exhaust. Any odor impacts on existing adjacent land uses would be short-term and not substantial. As such, the Project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. Impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

3.3.4 Biological Resources

The following is a summary of the Project's Biological Resources Assessment, prepared by South Environmental, included as **Appendix B, Biological Resources Assessment,** to this document.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. **Would the project have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?**	☐	☒	☐	☐

Less than Significant with Mitigation Incorporated. As detailed in the Biological Resources Assessment prepared by South Environmental (see **Appendix B**), the proposed Project would require potential removal of trees, shrubs, and herbaceous plants in the landscaping that could provide potential nesting habitat for birds and raptors protected by the Migratory Bird Treaty Act (MBTA), Migratory Bird Protection Act (MBPA), and the Fish and Game Code, including special-status birds such as Le Conte's thrashers. If present at the time of vegetation removal, active nests, eggs, or young could be destroyed or otherwise disturbed to a point at which the young do not survive, which would be a violation of the MBTA, MBPA, and the Fish and Game Code. In addition, indirect iinpacts from noise or vibration have the potential to disturb an active bird nest that may occur in adjacent landscaping to the point of failure if the nest is within immediate proximity to Project activities. To avoid impacts to active bird or raptor nests, eggs, or young, preconstruction nesting bird surveys and monitoring are required per the MBTA and Fish and Game Code as described in **Mitigation Measure MM BIO-1**.

In addition to nesting birds, the Biological Resources Assessment identified the coast horned lizard as having potential to occur in the Project vicinity; however, the Project site consists of disturbed Joshua Tree Woodland at the urban interface and provides lower-quality habitat than the undisturbed desert wash located approximately 200 feet southwest of the Project Site, where the species is more likely to occur. Although this species could be present during construction, the likelihood of direct impacts such as injury or mortality is low because of the limited habitat value and low probability of occurrence within the development footprint. The Project would remove approximately 0.88 acres of disturbed, isolated habitat that represents a minor fraction of the available higher-quality habitat in the surrounding area, and

implementation of **Mitigation Measure MM BIO-2** would address impacts related to Joshua tree and Joshua Tree Woodland removal. For these reasons, potential impacts to coast horned lizard would be less than significant under CEQA.

Western Joshua tree occurs in the Project area, and no other special-status plants are expected to occur due to the level of disturbances in the plant community. There are 22 Joshua trees within 15 meters of the proposed Project footprint, and 8 of those would be removed by the Project because they are within the development footprint. Removals include 0 Class A, 8 Class B (#10, #11, #13, #14, #19, #20, #35, D1), and 0 Class C. An additional 2 Joshua trees (#9 and #12) are within the Project Site but will remain within landscaping after the Project is built, and these would be heavily encroached into the 15 meter buffer by development. As shown in the Site Plan, these Joshua trees will be fenced during construction of the Project to protect them from potential inadvertent impacts. Another 12 Joshua trees (#4-#8, #15, #18, #21-#24, D3) are outside the Project Site but will be encroached within a 15-meter buffer by the project construction. Protective fencing shown in the Site Plan will be installed between these Joshua trees and the Project Site during construction to avoid inadvertent impacts to these trees.

Overall, the population of Joshua trees within the survey area is healthy, with very few dead trees, and a mix of size classes and observations of fruits and flowers indicate that the Joshua trees are regenerating naturally on the site. The number of removals proposed by the Project is 18 percent of the number surveyed. Although there are numerous other Joshua trees surrounding the survey area that are contiguous plant communities with those found on the site, and the relative number of removals to those in the region is very small, the Project must compensate for the loss of individual Joshua Trees per the Western Joshua Tree Conservation Act as described in **Mitigation Measure MM BIO-2.**

Paying into the Joshua Tree Conservation Act Incidental Take Permit annual mitigation fees and protecting adjacent Joshua trees and Joshua Tree Woodlands surrounding the Project Site would ensure there is compensation for the loss of Joshua trees from the Project footprint. The in-lieu fee program described in **Mitigation Measure MM BIO-2** would result in the conservation, restoration, or protection of Joshua trees and Joshua Tree Woodlands into perpetuity. With the implementation of **Mitigation Measure MM BIO-2**, the Project's impacts on disturbed Joshua Tree Woodland would be reduced to a level that is considered less than significant per the thresholds of CEQA.

Mitigation Measures:

MM BIO-1 Preconstruction Nesting Bird and Raptor Survey.

- To the extent feasible, ground disturbing activities and vegetation removal should be timed to occur between September 1 and January 31, which is outside the bird and raptor nesting season.

- If ground disturbing activities or vegetation removal (including tree trimming) are scheduled between February 1 and August 31, which is the bird nesting season, a preconstruction survey for nesting birds should be conducted within 72 hours prior to construction activities. The survey should be conducted by a qualified biologist with prior experience conducting nesting bird surveys for construction projects. The study area should include the affected area and suitable habitat within a 500-foot buffer, or a buffer size determined by the qualified biologist based on the level of proposed disturbance and access. If no active nests are found, no additional measures are required.

- If active nests are found, the biologist will map the location and document the species and nesting stage. A no-work buffer will be established around the active nest as determined by the qualified biologist and based on the species' sensitivity to disturbance and the type and duration of the disturbance. Typical buffers would be 300 feet for songbirds, 500 feet for raptors and special-status species, but it can be determined based on the conditions on the site and recommendations of the qualified biologist. No construction activities shall occur within the no-work buffer until the biologist has determined the nest is no longer active.

MM BIO-2 Western Joshua Tree Permitting and Protection

Due to the proposed removal of eight (8) Joshua trees for the Project, the Applicant shall obtain a permit from the CDFW prior to removing the trees. To obtain the permit, the applicant must complete a permit application and submit the application and Joshua tree inventory to the CDFW Region 6 Office via the online permitting system. This permit will require coordination with both the County of San Bernardino and CDFW to determine the number of Joshua trees that the agencies would require for transplanting to areas outside of the development. However, there is an in-lieu fee program that allows for a fee-based mitigation for the removal of Joshua trees, and these same mitigation fees could be applied to all of the Joshua trees that are encroaching within 15 meters, as determined by the

agencies. Therefore, these estimated fees are subject to change per the requirements of the permitting agencies following an assessment of the project's impacts on Joshua trees. The Applicant shall pay the required fees prior to the issuance of a grading permit. The estimated 2025 Western Joshua Tree Conservation Act Incidental Take Permit annual mitigation fees for the proposed removal of eight Joshua trees within the standard fee area are a total of $4,072.00, as follows:

- 0 Class A trees x $346.00 = $0.00
- 8 Class B trees x $509.00 = $4,072.00
- 0 Class C trees x $2,544.75 = $0.00

Joshua Tree Avoidance During Construction

- The Applicant shall install temporary protective fencing between the project workspace and each Joshua tree during construction of the project. The fencing would be high-visibility fencing placed at a minimum 15-meter buffer zone prior to the start of construction (or at the distance that is permitted for trees closer to the site). No work or project activities shall occur within the fenced area, and all work shall occur outside of the proposed Joshua tree buffers. Fencing would help prevent compaction and/or contamination of the soil and root zone.

- During construction, heavy equipment and vehicles shall be operated in accordance with standard Best Management Practices (BMPs). For example, all equipment used in the workspace shall be properly maintained such that no leaks of oil, fuel, or residues will take place. Provisions shall be in place to remediate any accidental spills. Implementation of the BMPs will help minimize the potential for impact to Joshua trees both within and outside the Joshua tree buffer zones.

- Night work should be avoided to ensure no disturbance of pollinators or photoperiods for the remaining Joshua trees.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. **Would the project have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, and regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?**	☐	☒	☐	☐

Less than Significant with Mitigation Incorporated. Plant communities are considered sensitive biological resources if they have limited distributions, have high wildlife value that includes sensitive species, or are particularly susceptible to disturbance. CDFW ranks sensitive communities as "threatened" or "very threatened."

The Biological Resources Assessment identified 0.88 acres of Joshua Tree Woodland within the Project Site. CDFW considers Joshua Tree Woodland a sensitive natural community (State Rank S3.2). The Project would permanently remove this 0.88-acre community. Although the woodland on-site is heavily disturbed by dirt roads, illegal dumping, and invasive plants, its removal constitutes an impact on a sensitive natural community. However, this impact is reduced to a level that is less than significant through the implementation of **Mitigation Measure MM BIO-2**. Compliance with the Western Joshua Tree Conservation Act includes the payment of in-lieu fees that are deposited into the Western Joshua Tree Conservation Fund. This fund is specifically designated for the acquisition, conservation, and management of Joshua Tree Woodland habitat elsewhere, effectively mitigating the loss of the disturbed habitat on-site.

A riparian habitat is any vegetated habitat that is influenced by a river or stream or is adjacent to a lake or other water body. One jurisdictional feature, a desert wash, occurs in the Project Area approximately 200 feet southwest of the Project Site and outside of the Project impact areas. Since Project impacts are limited to the Project Site, it is not expected that the proposed Project will impact the wash directly. Temporary impacts would not occur from the Project as temporary staging and construction equipment will occur on the Project Site outside of the wash, at a distance greater than 200 feet. Considering the large distance between the Project Site and the wash, and the position of the Project Site between two existing large commercial developments, the Project would have no indirect impacts on the wash.

Therefore, with the implementation of **Mitigation Measure MM BIO-2** for the Joshua Tree Woodland and the avoidance of the off-site desert wash, impacts to sensitive natural communities would be less than significant.

Mitigation Measures: See **MM BIO-2**, above.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. Would the project have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	☐	☐	☐	☒

No Impact. According to the USFWS National Wetlands Inventory Mapper, there are no mapped wetlands located within the Project Site.[15] As previously discussed, a desert wash occurs in the Project Area approximately 200 feet southwest of the Project Site, outside of the Project impact areas. No direct removal, filling, or hydrological interruption of this desert wash is proposed with the Project. Therefore, the Project would result in no impacts to state or federally protected wetlands.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. Would the project interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	☐	☐	☒	☐

Less than Significant. During the South Environmental field visit, the Study Area was assessed for its potential use as a wildlife corridor or habitat linkage. The level of disturbance of the Study Area is by way of development that includes roads, houses, fences, and lighting. The Study Area was assessed for the

15 United States Fish and Wildlife, "National Wetlands Inventory." Available online at: https://fwsprimary.wim.usgs.gov/wetlands/apps/wetlands-mapper/. Accessed November 18, 2025.

presence of a corridor of linkage of habitat that connects the Study Area to adjacent and higher-quality habitat.

The Joshua Tree Woodland in the study area extends west and southwest beyond the Study Area boundary between further developed areas. This large, undeveloped Joshua Tree woodland is bordered on all sides by developments such as roads and businesses, and does not have connectivity to other open spaces or habitats. The Project Site is an endpoint of this community that is highly disturbed and bordered by large-scale commercial developments and major paved roadways. Any large open spaces or habitats are east of the Project Site across several roads and lines of housing developments. Therefore, no wildlife corridors were found in the Study Area as there is no linkage to large habitats. The lack of connectivity limits the potential for special status plants and wildlife to populate the site from areas of high-quality habitats. Therefore, the Project Site is not considered a wildlife movement corridor or habitat linkage area, and impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
e. **Would the project conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?**	☐	☐	☒	☐

Less than Significant Impact. The Project Site is undeveloped and contains vegetation throughout the site, including multiple western Joshua trees. As previously discussed, the Project would be required to handle the "taking" of the western Joshua trees in accordance with the Western Joshua Tree Conservation Act (WJTCA)/CDFW and the California Endangered Species Act (CESA) via **Mitigation Measure MM BIO-2**. Western Joshua trees that will need to be relocated or removed would be subject to payment for each Western Joshua tree into the Joshua Tree Conservation Act Incidental Take Permit annual mitigation fee.

Additionally, the Project would comply with the Town of Yucca Valley Native Plant Ordinance. Since the Project Site is zoned for Commercial uses, it would also be required to comply with Section 9.09.050 of the YVMC, which requires parcels zoned for Commercial uses to obtain a Native Plant Permit prior to vegetation removal. No other local policies or ordinances are applicable to the Project, and therefore, impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
f. Would the project conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	☐	☐	☐	☒

No Impact. There are no adopted habitat conservation plans, natural community conservation plans, or other approved local, regional, or state habitat conservation plans applicable to the Project Site; the Project Site is not included in any Habitat Conservation Plan or Natural Community Conservation Plan.[16] As previously discussed, the Project would comply with all regulations pertaining to the protection and preservation of western Joshua trees in accordance with the WJTCA/CDFW and CESA. Therefore, no impact would occur.

Mitigation Measures: No mitigation measures are required.

16 California Department of Fish and Wildlife, *California Natural Community Conservation Plans*, August 2025. Available online at: https://wildlife.ca.gov/Portals/0/Images/Conservation/NCCP/NCCP%20Map%2011%20x%2017_202508.jpg?ver=_DY40O2VlqKMkgF-QwkmpQ%3d%3d, accessed November 18, 2025.

3.3.5 Cultural Resources

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project cause a substantial adverse change in the significance of a historical resource pursuant to *CEQA Guidelines* Section 15064.5?	☐	☐	☒	☐

Less Than Significant Impact. Section 15064.5 of the *State CEQA Guidelines* defines a historical resource as:

1) *a resource listed in or determined to be eligible by the State Historical Resources Commission, for listing in the California Register of Historical Resources;*

2) *a resource listed in a local register of historical resources or identified as significant in an historical resource survey meeting certain state guidelines; or*

3) *an object, building, structure, site, area, place, record or manuscript which a lead agency determines to be significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California, provided that the lead agency's determination is supported by substantial evidence in light of the whole record.*

Generally, a lead agency must consider a property a historical resource under CEQA if it is eligible for listing in the California Register of Historical Resources (CRHR). The CRHR is modeled after the National Register of Historic Places (NRHP). Generally, the initial criteria for properties to be listed on either register include a minimum requirement for the building on the property to be at least 50 years old.[17]

The Project Site is currently vacant and contains no existing structures or buildings; therefore, the Project would not result in the demolition or alteration of any on-site historical built environment resources.

The Open Space and Conservation Element identifies five historic resources in Yucca Valley; these resources include: a historical schoolhouse, Warren's Well, Warren's Ranch/Tanks, Desert Christ Park, and State Route 62.[18] While State Route 62 runs along the north end of the Project Site, the Project's proposed

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17 Office of Historic Preservation, *Instructions for Recording Historical Resources*, 1995. Available online at: https://ohp.parks.ca.gov/pages/1054/files/manual95.pdf#:~:text=The%2045%20year%20criteria%20recognizes%20that%20there,and%20the%20date%20that%20planning%20decisions%20are, accessed October 1, 2025.

18 Town of Yucca Valley, *Town of Yucca Valley General Plan: Open Space and Conservation Element*, February 4, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/2596/637009395718470000, accessed September 30, 2025.

frontage improvements (e.g., driveway access, sidewalk connections) would not alter the historic alignment, location, or character of the highway. Therefore, impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	☐	☒	☐	☐

Less than Significant with Mitigation Incorporated. Archaeological resources include material evidence of past human life and culture of previous ages. Section 15064.5 of the *State CEQA Guidelines* states that if an archaeological site does not meet the criteria defined in subdivision (a) but does meet the definition of a unique archeological resource in PRC Section 21083.2, the site shall be treated in accordance with the provisions of Section 21083.2. PRC Section 21083.2(g) defines a unique archeological resource as an archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and that there is a demonstrable public interest in that information.

2. Has a special and particular quality, such as being the oldest of its type or the best available example of its type.

3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

The Project Site is currently vacant and undeveloped, but is largely surrounded by developed uses. Although it is unlikely that accidental discovery of archaeological resources would occur due to the Project Site's location in a developed commercial corridor, ground disturbing activities associated with the Project could unearth previously undiscovered archaeological resources. To ensure potential impacts are handled appropriately, the Project would be required to comply with **Mitigation Measures MM CUL-1** and **MM CUL-2** to ensure that the Project would not result in a significant impact on an archaeological or cultural resource. With implementation of **Mitigation Measures MM CUL-1** and **MM CUL-2**, impacts would be reduced to less than significant levels.

Mitigation Measures:

MM CUL-1 In the event that archaeological resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be retained to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period.

MM CUL-2 If significant archaeological resources, as defined by CEQA (Public Resources Code Section 21083.2), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan. The Plan shall outline procedures for data recovery, curation, and reporting consistent with CEQA requirements. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. Would the project disturb any human remains, including those interred outside of formal ceremonies?	☐	☒	☐	☐

Less than Significant with Mitigation Incorporated. The Project Site does not include any identified formal cemeteries and is not known to have been used for the disposal of historic or prehistoric human remains, and human remains are not expected to be encountered during construction associated with the proposed Project. In the unlikely event that human remains are uncovered during ground-disturbing activities, adherence to **Mitigation Measure MM CUL-3** will reduce potentially significant impacts regarding the disturbance of human remains, including those interred outside of formal ceremonies, to less than significant levels by ensuring compliance with California Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98.

Mitigation Measures:

MM CUL-3 If human remains or funerary objects are encountered during any activities associated with the Project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the San Bernardino County Coroner shall be contacted pursuant to State Health and Safety Code Section 7050.5 and that code shall be enforced for the duration of the Project. If the human remains are determined to be of Native American origin, the Coroner shall

notify the Native American Heritage Commission within 24 hours of this identification, pursuant to Public Resources Code Section 5097.98.

3.3.6 Energy

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	☐	☐	☒	☐

Less than Significant Impact. Southern California Edison (SCE) provides electricity services to most of San Bernardino County, including the Town of Yucca Valley. In 2024, the total electrical generation in California was 216,181 gigawatt-hours (GWh).[19] Statewide electric consumption in 2024 was estimated by the California Energy Commission (CEC) to be 282,013 GWh, with San Bernardino County responsible for consuming approximately 16,206 GWh.[20] Statewide natural gas consumption in 2024 (the most was estimated by the CEC to be 11,083 million therms (MMThm), with San Bernardino County responsible for consuming approximately 547 MMThm.[21]

Neither federal nor state law nor the *State CEQA Guidelines* establishes thresholds that define when energy consumption is considered wasteful, inefficient, and unnecessary. In general, compliance with CCR Title 24 Energy Efficiency Standards would result in energy-efficient buildings.

Construction

Construction activities associated with the Project would consume electricity on a limited basis to power lighting, electrical equipment, and supply and convey water for dust control. Electricity would be supplied to the Project Site from existing electrical lines. The electricity demand at any given time would vary throughout the construction period based on the construction activities being performed and would cease upon completion of construction. Electricity use from construction would be short-term, limited to working

19 California Energy Commission, "2024 Total System Electric Generation." Available online at: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2024-total-system-electric-generation, accessed October 1, 2025.

20 California Energy Commission, *Energy Consumption by County*, 2024. Available online at: https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.energy.ca.gov%2Ffilebrowser%2Fdownload%2F8144%3Ffid%3D8144&wdOrigin=BROWSELINK, accessed October 1, 2025.

21 California Energy Commission, *Energy Consumption by County*, 2022. Available online at: https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.energy.ca.gov%2Ffilebrowser%2Fdownload%2F8146%3Ffid%3D8146&wdOrigin=BROWSELINK, accessed October 1, 2025.

hours, used for necessary construction-related activities, and represent a small fraction of the Project's annual operational electricity.

Typically, construction activities do not involve the consumption of natural gas. As such, natural gas would not be supplied to support Project construction activities, and there would be no expected demand generated by construction of the Project. If natural gas is used during construction, it would be in limited amounts and on a temporary basis, and would specifically be used to replace or offset diesel-fueled equipment and, as such, would not result in substantial ongoing demand.

Construction activities associated with the Project would use gasoline and/or diesel-powered equipment and/or vehicles for hauling activities. However, the Project Applicant would use fuel-efficient equipment consistent with State and federal regulations. Furthermore, the Project would comply with all California Code of Regulations, including Title 13, sections 2449(d)(3) and 2485, which minimizes the idling time of construction equipment either by shutting it off when not in use or by reducing the time of idling to no more than five minutes.

Construction equipment would comply with applicable standards, and construction activities and associated fuel consumption and energy use would be temporary and typical of construction sites. It is also reasonable to assume contractors would avoid wasteful, inefficient, and unnecessary fuel consumption during construction to reduce construction costs. Therefore, construction activities associated with the Project would not involve the inefficient, wasteful, and unnecessary use of energy during construction, and the construction-phase impact related to energy consumption would be less than significant.

Operational

The Project involves the construction of a new Dutch Bros coffee shop with a drive-through. This development would result in energy consumption for electricity and the conveyance of water, wastewater, and solid waste disposal. The Project would be required to comply with the State's Building Energy Efficiency Standards (Cal. Code Regs., tit. 24, Part 6), which requires newly constructed buildings to meet energy performance standards set by the Energy Commission to reduce the wasteful, uneconomic, inefficient, or unnecessary consumption of energy, and to enhance the outdoor and indoor environmental quality. In addition, the Project would be required to comply with the mandatory requirements set forth in the California Green Building Standards Code (CBSC) related to energy efficiency, water efficiency and conservation, and material conservation and resource efficiency for new residential buildings.

Energy would also be consumed as a result of vehicle trips. Thus, operation associated with implementation of the Project would result in an increase in the consumption of petroleum-based fuels related to vehicular travel to and from the Project Site. The majority of vehicles visiting the site would

consist of light-duty automobiles and light-duty trucks, which are subject to state fuel efficiency standards, such as the Low Carbon Fuel Standard (LCFS) and Low-Emission Vehicle Program Standards. The Low Carbon Fuel Standard (LCFS), in part, aims to reduce fuel consumption, and providers of transportation fuels must demonstrate that the mix of fuels they supply for use in California meets the LCFS carbon intensity standards for each annual compliance period.

In conclusion, increased energy demand associated with construction activities associated with the Project would be temporary and typical of construction projects and would not result in wasteful use of energy resources. Although operational energy use could increase overall, newly constructed uses would be energy efficient and be in conformance with the latest version of California's Building Energy Efficiency Standards and Green Building Standards Code. This impact would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	☐	☐	☒	☐

Less than Significant Impact. The Project would be designed in a manner that is consistent with relevant energy conservation plans designed to encourage development that results in the efficient use of energy resources. As discussed above, the Project would comply with the most current CALGreen Building Code, which ensures the use of energy-efficient features for the proposed Project. As such, the Project would not conflict or obstruct any local or state plans for renewable energy or energy efficiency. For these reasons, this impact would be less than significant.

Mitigation Measures: No mitigation measures are required.

3.3.7 Geology and Soils

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i. Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	☐	☐	☒	☐

Less Than Significant Impact. Fault rupture is the displacement that occurs along the surface of a fault during an earthquake. The California Geological Survey designates Alquist-Priolo Earthquake Fault Zones, which are regulatory zones around active faults. An "active fault" has exhibited surface displacement with Holocene time (within the last 11,000 years), hence constituting a potential hazard to structures that may be located across it.

Although the California Department of Conservation has identified Alquist-Priolo Earthquake Fault Zones within the Town of Yucca Valley, none appear on the Project Site.[22] The San Andreas Fault is approximately 20 miles southwest of the Project Site and is considered the most seismically active fault in the southern California region. The nearest faults to the Project Site include the Pinto Mountain Fault, approximately 0.36 miles north of the Project Site, and the Eureka Peak Fault, located approximately 0.45 miles south of the Project Site.

The Project involves the construction of a new Dutch Bros coffee shop with a drive-through. The proposed Project does not include uses such as fracking that would exacerbate geologic conditions. Therefore, the Project would not directly result in any ground disturbing activities which have the potential to exacerbate existing geologic conditions, including fault rupture. Development of the Project will involve ground-

22 California Department of Conservation, California Geologic Survey, "Earthquake Zones of Required Investigation." Available online at: https://maps.conservation.ca.gov/cgs/EQZApp/app/, South Gate Quad, or https://filerequest.conservation.ca.gov/?q=SOUTH_GATE_EZRIM.pdf, accessed October 1, 2025.

disturbing activities such as grading, clearing, excavation, and paving. However, any such activities would be required to adhere to all relevant building and safety code requirements to reduce potential impacts associated with seismic hazards. Therefore, a less than significant impact would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
ii. Strong seismic ground shaking?	☐	☐	☒	☐

Less than Significant Impact. Southern California is an active seismic region, and moderate to strong earthquakes can occur on numerous faults. As is the case for most areas of California, the Town is situated within a seismically active region. The intensity of ground shaking during a seismic event at any one location is determined by several factors, including: magnitude of the earthquake; distance from the epicenter (source); subsurface material beneath the location; and topography. Ground shaking could result in significant damage to buildings, roads, and other infrastructure, and may also result in associated safety hazards to people living and working in the vicinity. Considering the location of these faults, the potential impact of seismic ground shaking is considered to be low. Development of the Project would be required to adhere to development and code requirements related to seismic ground shaking. Therefore, a less than significant impact would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
iii. Seismic-related ground failure, including liquefaction?	☐	☐	☒	☐

Less than Significant Impact. Liquefaction is the sudden decrease in the strength of cohesionless soils due to dynamic or cyclic shaking. Saturated soils behave temporarily as a viscous fluid (liquefaction) and, consequently, lose their capacity to support the structures founded on them. The potential for liquefaction decreases with increasing clay and gravel content but increases as the ground acceleration and duration of shaking increase. According to the California Natural Resources Agency, the Project Site is not located

within a liquefiable area.[23] Nevertheless, the Project would be required to comply with the California Building Code as adopted in Chapter 8.02 (Building Codes) of the YVMC, and may be amended from time to time, related to building safety, to reduce potential liquefaction impacts. The Building Code includes regulations that pertain to structural stability for new buildings and infrastructure. Therefore, the Project would not expose people or structures to seismic-related ground failure, including liquefaction, and impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
iv. Landslides?	☐	☐	☐	☒

No Impact. Landslides are movements of large masses of rock and/or soil. Landslide potential is generally the greatest for areas with steep and/or high slopes, low shear strength, and increased water pressure. Seismically induced landslides and other slope failures are common occurrences during or soon after earthquakes. The topography of the Project Site is relatively flat with no significant slopes existing within its vicinity. Furthermore, there are no identified landslide zones within the Project Site as mapped for Earthquake Zones of Required Investigation by the California Geological Survey.[24] As such, no impacts would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project result in substantial soil erosion or the loss of topsoil?	☐	☐	☒	☐

23 California Natural Resources Agency, CGS Seismic Hazards Program: Liquefaction Zones. Available online at: https://gis.data.cnra.ca.gov/datasets/cadoc::cgs-seismic-hazards-program-liquefaction-zones/explore?location=33.862742%2C-117.225148%2C9.80, accessed October 1, 2025.

24 California Department of Conservation, California Geologic Survey, "Earthquake Zones of Required Investigation." Available online at: https://maps.conservation.ca.gov/cgs/EQZApp/app/, South Gate Quad, or https://filerequest.conservation.ca.gov/?q=SOUTH_GATE_EZRIM.pdf, accessed October 1, 2025.

Less than Significant Impact. Construction activities associated with the Project would result in ground surface disruption during site preparation, which would temporarily expose soils, allowing for possible erosion. The Project would be required to comply with federal, regional, and local regulations pertaining to soil erosion related-construction activity. As discussed in **Section 3.3.10, Hydrology and Water Quality**, the Project must comply with all applicable requirements contained within Chapter 9.37, Soil Erosion and Dust Control, and Section 9.32.110, Stormwater Management, of the YVMC to minimize runoff.[25] Compliance with these local regulations and implementing applicable BMPs would ensure that the Project would not result in substantial soil erosion or the loss of topsoil, and impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. **Would the project be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?**	☐	☐	☒	☐

Less than Significant Impact. Impacts related to landslides and liquefaction are addressed under impact discussions **Section 3.3.7(a)(iii)** and **Section 3.3.7(a)(iv)**, above. Lateral spreading occurs as a result of liquefaction; accordingly, liquefaction-prone areas would also be susceptible to lateral spreading. Subsidence occurs at great depths below the surface when subsurface pressure is reduced by the withdrawal of fluids (e.g., groundwater, natural gas, or oil), resulting in sinking of the ground. As stated, the Project Site is not located within a liquefaction zone, nor would the Project be prone to landslides. The Project would be subject to the CBC and Chapter 8.02 (Building Codes) of the Town's Municipal Code in order to minimize geologic hazards during a seismic event. Thus, adherence to local and state regulations would ensure that the Project would not be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the Project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse. Less than significant impacts would occur.

Mitigation Measures: No mitigation measures are required.

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25 Town of Yucca Valley, Yucca Valley Municipal Code: *Chapter 9.37, Soil Erosion and Dust Control;* and *Chapter 9.32, Landscaping and Water Conservation.* Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-1, accessed February 27, 2026.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. Would the project be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	☐	☐	☒	☐

Less than Significant Impact. Expansive soils are characterized by their ability to undergo significant volume changes (shrink or swell) due to variations in moisture content. Changes in soil moisture content can result from precipitation, landscape irrigation, utility leakage, roof drainage, perched groundwater, drought, or other factors, and may result in unacceptable settlement or heave of structures or concrete slabs supported on grade. Depending on the extent and location below finish subgrade, expansive soils can have a detrimental effect on structures.

According to the CGS Geologic Map of California, the Project Site contains General rock types (Q). Based on a soil search with the USDA's Web Soil Survey online database, the Project Site is located in the Mojave Desert Area, West Central Part, with typic torriorthents and typic haplargids soil types present.[26] These soil types' parent material consists of alluvium derived from igneous rock; the natural drainage class is somewhat excessively drained, and the shrink-swell potential is low.[27] The soil in the area is not susceptible to expansion due to its property types. Additionally, as described in **Section 3.3.7(a)**, the proposed Project would be required to comply with the CBC and the Town Code to ensure safety and adequate building construction. Therefore, impacts related to expansive soils would be less than significant.

Mitigation Measures: No mitigation measures are required.

Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact

26 United States Department of Agriculture, Web Soil Survey. Available online at: https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx, accessed October 2, 2025.

27 United States Department of Agriculture, Web Soil Survey. Available online at: https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx, accessed October 2, 2025.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
e. Would the project have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	☐	☐	☐	☒

No Impact. The proposed Project would not use septic tanks or alternative wastewater disposal systems; the Project would connect to existing sanitary sewer and wastewater facilities. Compliance with the CBC would ensure that the Project would not result in impacts related to substantial soil erosion, unstable soils, expansive soils, or soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems. Thus, the Project would have no impacts related to soil supporting septic tanks or alternative wastewater systems.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
f. Would the project directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	☐	☒	☐	☐

Less than Significant with Mitigation Incorporated. Paleontological resources are the remains of prehistoric plant and animal life and do not include human remains or artifacts. The potential for fossil remains at a location can be predicted based on whether previous fossil finds have been made in the vicinity and the age of the geologic formations. While the likelihood of encountering paleontological resources or unique geologic features is low, new development associated with the Project could include excavation to previously undiscovered depths. Therefore, **Mitigation Measure MM GEO-1** is required to ensure development does not destroy a unique paleontological resource. With **Mitigation Measure MM GEO-1**, impacts would be less than significant.

Mitigation Measures:

MM GEO-1 In the event that paleontological resources are discovered during ground-disturbing activities associated with the Project, all work shall be halted within 50 feet of the discovery, and a qualified paleontologist shall be retained to evaluate the significance of the find. If the resource is determined to be significant, the paleontologist shall develop a Paleontological Resource Mitigation Plan to address the assessment and recovery of the resource and to monitor further ground-disturbing activities associated with the Project.

A final report documenting any found resources, their recovery, and disposition shall be prepared by the qualified paleontologist, and a copy of the report shall be provided to the Town of Yucca Valley Planning Division and an accredited repository/curation facility, such as the San Bernardino County Museum.

3.3.8 Greenhouse Gas Emissions

Project Greenhouse Gas Analysis Methodology

State CEQA Guidelines Section 15064.4 was amended in 2019 to incorporate the holding in the Center for Biological Diversity case[28] as well as others. The Court acknowledged that the scope of global climate change and the fact that greenhouse gases (GHGs), once released into the atmosphere, are not contained in the local area of their emission means that the impacts to be evaluated are global, rather than local. For many air pollutants, the significance of their environmental impact may depend greatly on where they are emitted; for GHG, it does not. For projects that are designed to accommodate long-term growth in California's population and economic activity in a sustainable manner, such as the Project, this fact gives rise to an argument that a certain amount of GHG emissions is as inevitable as population growth. Under this view, a significance criterion framed in terms of efficiency and conservation in land use (as compared to a business-as-usual [BAU] pattern of growth) is superior to a simple numerical threshold because CEQA is not intended as a population control measure. This analysis assesses the Project against the MDAQMD GHG threshold of 100,000 metric tons of carbon dioxide equivalent (MTCO2e) annually or 548,000 pounds per day of CO2e, as well as for consistency with statewide goals (i.e., AB 32, SB 32, and AB 1279) as a significant criterion for project GHG emissions.

Meeting statewide reduction goals does not preclude all new development. Rather, the Scoping Plan, the State's roadmap for meeting the statewide target, assumes continued growth and depends on increased efficiency and conservation in land use and transportation from all Californians. To the extent a project incorporates efficiency and conservation measures sufficient to contribute its portion of the overall GHG reductions necessary for the entire State, one can reasonably argue that its impact is not cumulatively considerable, because it would be helping to solve the cumulative problem of GHG emissions as envisioned by California law. Given the reality of growth, some GHG emissions from new development are inevitable. The critical CEQA question is the cumulative significance of a project's GHG emissions, and, as discussed previously, from a climate change point of view, it does not matter where in the State those emissions are produced. Under these circumstances, evaluating the significance of a project's GHG emissions with respect to their effect on the State's efforts to meet its long-term goals in addition to the numeric threshold established by the MDAQMD is appropriate. As such, the impact analysis contained herein is quantitative as well as cumulative and qualitative in nature.

This analysis assesses the Project against the MDAQMD GHG threshold of 100,000 $MTCO_2e$ annually or 548,000 pounds per day of CO_2e, as well as for consistency with statewide goals in a cumulative context

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28 California Supreme Court, *Center for Biological Diversity et al. vs. California Department of Fish and Wildlife*, November 30, 2015.

based on its consistency with the state's laws and programs to address climate change. To that end, this analysis assesses the significance of the Project's potential environmental impacts associated with its GHG emissions qualitatively, based on the Project's consistency with AB 32, SB 32, and AB 1279 (through demonstration of conformance with 2022 Scoping Plan); and SB 375 (through demonstration of conformance with Connect SoCal 2024).

Regarding assessing the significance of a project's GHG emissions through consistency with statewide, regional, and local plans, Appendix D, Local Actions, of the 2022 Scoping Plan Update contains guidance for local governments reviewing new land use development projects, including through environmental review under CEQA" (Page 4 of Appendix D).[29]

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	☐	☐	☒	☐

Less than Significant Impact. *State CEQA Guidelines* Section 15064.4(a) states a lead agency shall make a good-faith effort, based to the extent possible on scientific and factual data, to describe and estimate the amount of greenhouse gas emissions resulting from a project. *State CEQA Guidelines* Section 15064.4(c) states a lead agency may use a model or methodology to estimate greenhouse gas emissions resulting from the project, and that the lead agency has the discretion to select the model or methodology it considers most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change. Based upon this guidance, GHG emissions were quantified for the Project using CalEEMod, which is the model recommended by the MDAQMD (see **Appendix A** to this IS). Operational emissions include both direct and indirect sources, including mobile sources, water use, solid waste, area sources, natural gas, and electricity use emissions. CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. While the Town does not have or use a numerical threshold for GHG emissions or a methodology that relies on a quantitative analysis in order to determine the significance of a project's GHG emissions, the MDAQMD does provide a numeric

29 CARB, *2022 Scoping Plan for Achieving Carbon Neutrality – Appendix D: Local Actions*, 2022. Available online at: https://ww2.arb.ca.gov/sites/default/files/2022-11/2022-sp-appendix-d-local-actions.pdf, accessed September 13, 2024.

threshold of 100,000 short tons of CO2e annually or 548,000 pounds per day of CO_2e. The Project's GHG emissions are quantified and provided to comply with *State CEQA Guidelines*, Section 15064.4(a), and compared against the MDAQMD threshold for GHG emissions.

Construction Emissions

For purposes of this analysis, it is estimated that the Project would be constructed in approximately 5 months, with construction beginning in 2026 and Project operations commencing in 2026. This analysis assumes construction would be undertaken with the following primary construction phases: (1) debris removal, (2) grading and foundation preparation, and (3) building construction.

With the use of CalEEMod, GHG emissions throughout Project construction were calculated from off-road equipment usage, hauling vehicles, delivery trips, and worker trips to and from the site. The total GHG construction emissions during 2026 would be approximately 97 metric tons of carbon dioxide equivalent (MTCO2e). As GHG emissions impact from construction activities would occur over a relatively short time span, it would contribute a relatively small portion of the lifetime GHG emission impact of the Project. The total construction GHG emissions were divided by 30 years to determine an annual construction emission rate to be amortized over the Project's first 30 years of operations. Amortized over a 30-year period, the Project is anticipated to emit approximately 3.23 MTCO2e/year.

Operational Emissions

The operations of the Project would generate GHG emissions from mobile sources (vehicle trips), area sources, the usage of electricity, natural gas, water, and the generation of solid waste and wastewater. Emissions of operational GHGs are shown in **Table 3.3-3, Project Greenhouse Gas Emissions**. As shown, the total GHG emissions generated by the Project (including amortized construction emissions) would be approximately 447.23 $MTCO_2e$/year.

Table 3.3-3
Proposed Project Greenhouse Gas Emissions

Emissions Source	Metric Tons of Carbon Dioxide Equivalent (per year)
Amortized Construction Emissions	3.23
Mobile Sources	423
Area Sources	0.02
Energy Sources	16.00
Water Sources	1.10
Waste Sources	3.70
Refrigerants	0.27
Total GHG Emissions	**447.32**

Source: Impact Sciences, Inc. See ***Appendix A.***

As shown in **Table 3.3-3**, the Project would generate approximately 447.32 MTCO2e per year, which is well below the 100,000 short ton GHG emissions threshold established by the MDAQMD. Therefore, impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of greenhouse gases?	☐	☐	☒	☐

Less than Significant Impact. As stated above, this analysis evaluates the significance of Project GHG emissions in a cumulative context based on its consistency with State and local laws and programs to address climate change. To that end, this analysis assesses the significance of the Project's potential environmental impacts associated with its GHG emissions qualitatively, based on the Project's consistency with AB 32, SB 32, and AB 1279 (through demonstration of conformance with 2022 Scoping Plan); SB 375 (through demonstration of conformance with Connect SoCal 2024); and the San Bernardino County Greenhouse Gas Reduction Plan.

Consistency with AB 32, SB 32, AB 1279

The Project would be consistent with applicable statewide regulatory programs designed to reduce GHG emissions consistent with AB 32, SB 32, AB 1279, and the 2022 Scoping Plan. In response to the passage of AB 1279 and the identification of the 2045 GHG reduction target, CARB published the 2022 Scoping Plan for Achieving Carbon Neutrality on November 16, 2022, and it was approved on December 15, 2022.[30] The 2022 Scoping Plan lays out the sector-by-sector roadmap for California, the world's fifth-largest economy, to achieve carbon neutrality by 2045 or earlier, outlining a technologically feasible, cost-effective, and equity-focused path to achieve the state's climate target. The 2022 Scoping Plan includes policies to achieve a significant reduction in fossil fuel combustion, further reductions in short-lived climate pollutants, support for sustainable development, increased action on natural and working lands (NWL) to reduce emissions and sequester carbon, and the capture and storage of carbon.

The 2022 Scoping Plan discusses the role of local governments in meeting the state's GHG reduction goals because local governments have jurisdiction and land use authority related to: community-scale planning and permitting processes, local codes and actions, outreach and education programs, and municipal operations. Furthermore, local governments may have the ability to incentivize renewable energy, energy efficiency, and water efficiency measures. As discussed in detail in Appendix D (Local Actions) of the 2022 Scoping Plan, local jurisdictions can do much to enable statewide priorities, such as taking local action to help the state develop the housing, transport systems, and other tools we all need. Indeed, state tools—such as the Cap-and-Trade Program or zero-emission vehicle programs—do not substitute for these local efforts. Multiple legal tools are open to local jurisdictions to support this approach, including the development of a climate action plan (CAP), sustainability plan, or inclusion of a plan for the reduction of GHG emissions and climate actions within a jurisdiction's general plan. Any of these can help to align zoning, permitting, and other local tools with climate action. The County of San Bernardino has fulfilled this local effort through the adoption of the County of San Bernardino Greenhouse Gas Reduction Plan Update on September 21, 2021.

The Project would comply with all regulations adopted in furtherance of the Scoping Plan to the extent required by law and to the extent that they are applicable to the Project. Furthermore, the Project would be consistent with the County's Regional Greenhouse Gas Reduction Plan, which identifies several measures to reduce emissions of GHGs in a manner consistent with the 2022 Scoping Plan. Additionally, as previously discussed, the Project would not exceed the 3,000 $MTCO_2e$ review standard established by the

30 California Air Resources Board, *2022 Scoping Plan Documents, Notice of Decision*. Available online at: https://ww2.arb.ca.gov/sites/default/files/2022-12/2022-sp-appendix-b-notice-of-decision.pdf, accessed November 12, 2025.

GHGRP and would not exceed the significance thresholds established by the MDAQMD. As such, the Project is consistent with Appendix D (Local Actions) of the 2022 Scoping Plan

The Project would be consistent with applicable statewide regulatory programs designed to reduce GHG emissions, consistent with the goals established in AB 32, SB 32, and AB 1279. AB 32 required CARB to adopt a scoping plan indicating how reductions in significant GHG sources will be achieved through regulations, market mechanisms, and other actions. In 2008, CARB released the Climate Change Proposed Scoping Plan that contained an outline of the proposed state strategies to achieve the 2020 greenhouse gas emission limits as outlined in AB 32. In response to SB 32, CARB adopted California's 2017 Climate Change Scoping Plan, which outlines the proposed framework of action for achieving California's SB 32 2030 GHG target: a 40 percent reduction in GHG emissions by 2030 relative to 1990 levels.[31] The 2030 target is intended to ensure that California remains on track to achieve the goal set forth by E.O. B-30-15 to reduce statewide GHG emissions by 2050 to 80 percent below 1990 levels. In response to the passage of AB 1279 and the identification of the 2045 GHG reduction target, CARB published the 2022 Scoping Plan for Achieving Carbon Neutrality. Appendix D, *Local Actions*, of the 2022 Scoping Plan Update includes "recommendations intended to build momentum for local government actions that align with the State's climate goals, with a focus on local GHG reduction strategies (commonly referred to as climate action planning) and approval of new land use development projects, including through environmental review under the California Environmental Quality Act." Appendix D, Local Actions, of the 2022 Scoping Plan Update recommends that jurisdictions that want to take meaningful climate action aligned with the State's climate goals should look to the following three priority areas:

- Transportation Electrification,
- VMT Reduction, and
- Building Decarbonization.

To assist local jurisdictions, the 2022 Scoping Plan Update presents a non-exhaustive list of impactful GHG reduction strategies that can be implemented by local governments within these three priority areas (Priority GHG Reduction Strategies for Local Government Climate Action Priority Areas).[32]

Transportation Electrification. The Project proposes to develop a Dutch Bros coffee shop with a drive-through. The Project would provide a total of 18 parking spaces (3 future electric vehicle charging stations [EVCS], 1 accessible EVCS, 1 accessible, 13 standard). The State and Town have established requirements for transportation electrification, and the Project would not conflict with their implementation. Specifically,

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31 CARB, *California's 2017 Climate Change Scoping Plan*, November 2017.

32 Table 1 of Appendix D, *2022 Scoping Plan Update*, November 2022.

the State has adopted AB 1236 and AB 970, which require cities to adopt streamlined permitting procedures for EV charging stations. As a result, Chapter 8.10, Electric Vehicle Charging Systems, of the YVMC, facilitates convenient charging of electric vehicles and helps reduce the Town's reliance on fossil fuels, and generates additional employment within the Town and State.[33] Through the provision of EV charging infrastructure, the Project would support the State and the Town's goals of implementing EV chargers throughout the Town to be consistent with the Scoping Plan goals of transitioning to EVs.

VMT Reduction. As detailed in the Traffic Scoping Memorandum prepared for the Project by CR Associates, the Project would generate approximately 358 daily trips, including 89 AM peak hour trips and 30 PM peak hour trips. The Traffic Scoping Memorandum states that after applying a pass-by (existing trips on the main roadway system) reduction factor, the Project would generate 35 net new daily trips. As discussed in **Section 3.3.17(b),** the Project met the Project Type screening criteria. While the Project does not reduce VMT, the Project would be presumed to have a less than significant VMT impact and would not conflict with the Scoping Plan goals of reducing VMT throughout the region.

Building Decarbonization. The Project will be built to meet the most current CALGreen Buildings Standards, Title 24 standards, and the Town's Green Building Code (Section 8.02.100 of the YVMC). Additionally, the Project will incorporate 10,350 square feet of outdoor open space and will retain 2,808 square feet of existing landscaping near Twentynine Palms Highway. As such, the Project would not conflict with the Scoping Plan's goals of building decarbonization.

Consistency with the Southern California Association of Governments Connect SoCal 2024 Regional Transportation Plan / Sustainable Communities Strategy

The State of California has adopted plans and policies designed to reduce regional and local GHG emissions. SB 375 requires that each metropolitan planning organization prepare a Sustainable Communities Strategy (SCS) in the Regional Transportation Plan (RTP) that demonstrates how the region will meet greenhouse gas emissions targets. SB 375 establishes a collaborative relationship between MPOs and CARB to establish GHG emissions targets for each region in the state. Under the guidance of the goals and objectives adopted by the Southern California Association of Governments (SCAG) Regional Council, Connect SoCal 2024 was developed to provide a blueprint to integrate land use and transportation strategies to help achieve a coordinated and balanced regional transportation system. Connect SoCal represents the culmination of several years of work involving dozens of public agencies, 191 cities,

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33 Town of Yucca Valley, *YVMC: Chapter 8.10: Electric Vehicle Charging Systems*. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-2418, accessed November 11, 2025.

hundreds of local, county, regional, and state officials, the business community, environmental groups, and various nonprofit organizations.

The primary goal of the SCS is to provide a vision for future growth in Southern California that will decrease per capita GHG emissions from passenger vehicles. However, the strategies contained in the SCS will produce benefits for the region far beyond simply reducing GHG emissions. The SCS integrates the transportation network and related strategies with an overall land use pattern that responds to projected growth, housing needs, changing demographics, and transportation demands. The regional vision of the SCS maximizes current voluntary local efforts that support the goals of SB 375. The SCS focuses the majority of new housing and job growth in high-quality transit corridors and other opportunity areas on existing main streets, in downtowns, and on commercial corridors, resulting in an improved jobs-housing balance and more opportunity for transit-oriented development.

The Project proposes to develop a Dutch Bros coffee shop with a drive-through. Given the commercial nature of the Project, employment would be generated from the Project. Although the Project would increase employment in the area, it is anticipated that employees of the Project would primarily consist of existing residents in the Yucca Valley area, and the Project would not result in a high number of employees permanently relocating to the region. As previously discussed in **Section 3.3.3, Air Quality,** as the Project would employ up to 32 employees, based on the Department of Finance's average household size of 2.41 persons, the Project could result in a maximum population increase of approximately 77 persons.[34] Conservatively assuming that all 77 Project-generated residents relocate from outside of the Town, the Project's potential maximum increase of 77 persons would represent approximately three percent of the Town's projected increase in population between the years 2019 (21,700) and 2050 (24,000). Thus, the potential increase in population resulting from the Project will be nominal. The proposed Project's growth projections would not be considered substantial, and the Project would be consistent with the goals of the Connect SoCal 2024 RTP/SCS.

Consistency with the San Bernardino County Regional Greenhouse Gas Reduction Plan

Published in 2021, the Regional GHG Reduction Plan Update (GHG Plan) includes GHG inventories and local GHG reduction strategies for each of the 25 Partnership jurisdictions, which includes the town of Yucca Valley. The GHG Plan provides information that can be used by Partnership jurisdictions, if they choose to, to develop their own CAPs. The GHG Plan describes the reductions that are possible if the San

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34 California Department of Finance, Demographic Research Unit, "E-5 Population and Housing Estimates, 1/1/2025." Available online at: https://dof.ca.gov/Forecasting/Demographics/Estimates/estimates-e5-2010-2021/ , accessed November 10, 2025.

Bernardino Council of Governments and every Partnership jurisdiction were to adopt the reduction strategies as described in the document.

The GHG Plan outlines how the goal of "reducing community GHG emissions to a level that is 40 percent below its 2020 GHG emissions level by 2030" can be achieved by the Town. The Town will meet and exceed the goal through a combination of state (approximately 80 percent) and local (approximately 20 percent) efforts. While the majority of the Town's GHG reduction goal will be achieved through state efforts, such as the Pavley vehicle standards, the State's low carbon fuel standard, the RPS, and other state measures to reduce GHG emissions, this goal would also need to be reached through local measures, such as those included in the GHG Plan.

According to the GHG Plan, all development projects, including those otherwise determined to be exempt from CEQA, will be subject to applicable Development Code provisions, including the GHG performance standards, and state requirements, such as the California Building Code requirements for energy efficiency. With the application of GHG performance standards, projects that are exempt from CEQA and small projects that do not exceed 3,000 $MTCO_2e$/year will be considered to be consistent with the GHG Plan.[35] As previously discussed, the Project operational emissions would not exceed the 3,000 $MTCO_2e$/year threshold. Projects that demonstrate consistency with the strategies, actions, and emission reduction targets contained in the Reduction Plan would have a less than significant impact on climate change. The Project would be compliant with the goals established in the GHG Plan and does not exceed the GHG threshold established by the GHG Plan.

Given the Project's relatively small increase in GHG emissions (i.e., less than the County's threshold) and the Project's consistency with all relevant adopted regulatory plans, the Project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment. Moreover, the Project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases, and these impacts would be less than significant.

As demonstrated above, the Project would be consistent with AB 32, SB 32, and AB 1279 (through demonstration of conformance with 2022 Scoping Plan), SB 375 (through demonstration of conformance with Connect SoCal 2024), and local plans and policies to address climate change (County of San Bernardino GHG Reduction Plan). Therefore, impacts with respect to GHG emissions would be less than significant.

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35 San Bernardino County, *County of San Bernardino Regional Greenhouse Gas Emissions Reduction Plan*, 2021. Available online at: https://www.gosbcta.com/wp-content/uploads/2019/09/San_Bernardino_Regional_GHG_Reduction_Plan_Main_Text_Mar_2021.pdf, accessed November 11, 2025.

Mitigation Measures: No mitigation measures are required.

3.3.9 Hazards and Hazardous Materials

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project create a significant hazard to the public or the environment through the routine transport, use or disposal of hazardous materials?	☐	☐	☒	☐

Less than Significant Impact. Exposure of the public or the environment to hazardous materials could potentially occur through improper handling or use of hazardous materials or hazardous wastes during routine use, disposal, and/or transport of hazardous materials. The severity of these potential effects varies with the activity conducted, the concentration and type of hazardous materials or wastes present, and the proximity of sensitive receptors.

Limited amounts of some hazardous materials could be used in the short-term construction phase of the Project and could expose construction workers and the general public, including standard construction materials (e.g., paints and solvents), vehicle fuel, and other hazardous materials. In the event of a release of hazardous material, the Project would be required to notify the following State agencies under the following State statutes, respectively:

- Department of the California Highway Patrol: California Vehicle Code Section 23112.5;
- Office of Emergency Services and the California Public Utilities Commission: Public Utilities Code Section 7673, (PUC General Orders #22-B, 161);
- State Fire Marshal: Government Code Sections 51018
- Office Emergency Services: Water Codes Sections 13271, 13272; and
- Division of Occupational Safety and Health (Cal/OSHA): California Labor Code Section 6409.1 (b)10.

Common hazardous materials would likely be used in the construction and operation of the Project, including the use of standard construction materials (e.g., paints, solvents, and adhesives), cleaning and other maintenance products, diesel and other fuels (used in construction and maintenance equipment and vehicles), and pesticides associated with landscaping. The Project would be required to adhere to existing regulations, standards, and guidelines established by the U.S. EPA, the California Environmental Protection Agency, and the County of San Bernardino related to the storage, use, transport, and disposal

of hazardous materials. With compliance to applicable standards and regulations and adherence to the manufacturer's instructions related to the transport, use, or disposal of hazardous materials, the Project would not create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials, and impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	☐	☐	☒	☐

Less than Significant Impact. The Project involves the construction of a Dutch Bros coffee shop with a drive-through. Construction equipment utilized during construction activities associated with the Project could result in accidental release of hazardous substances such as petroleum-based fuels or hydraulic fluid used for construction equipment. However, the level of risk associated with this type of accidental release of hazardous substances is not considered significant due to the small volume and low concentration of hazardous materials utilized during construction and operation of the Project. As stated above, Project operations would involve the use of landscaping equipment and consumer cleaning products, which, although minimal, could potentially result in the accidental release of hazardous chemicals. Upon adherence to existing regulations related to chemical safety, impacts pertaining to the potential for accidental conditions during project operations would be less than significant. Lastly, there are no known hazardous sites associated with the Project Site according to the California Department of Toxic Substances Control's (DTSC) EnviroStor database,[36] the California State Water Resources Control Board (SWRCB) GeoTracker database,[37] and DTSC's current "Cortese" list.[38] As such, the Project would not create a significant hazard to the public or the environment through reasonably foreseeable upset and accident

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36 California Department of Toxic Substances Control, *EnviroStor*. Available online at: https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=58111+Twentynine+Palms+Highway+, accessed October 2, 2025.

37 State Water Resources Control Board, *GeoTracker*. Available online at https://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=58111+Twentynine%2BPalms+Highway+yucca+valley, accessed October 2, 2025.

38 California Department of Toxic Substances Control, *Hazardous Waste and Substances Site List (Cortese)*. Available online at: http://www.envirostor.dtsc.ca.gov/public/mandated_reports.asp , accessed October 2, 2025.

conditions involving the release of hazardous materials into the environment; impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. **Would the project emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?**	☐	☐	☐	☒

No Impact. The closest school to the Project Site is the Onaga Elementary School, located approximately 1.13 miles south of the Project Site at 58001 Onaga Trail in Yucca Valley. As such, the Project would not emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of a school; no impacts would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. **Would the project be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?**	☐	☐	☐	☒

No Impact. Government Code §65962.5 requires the DTSC, the State Department of Health Services, the SWRCB, and the California Integrated Waste Management Board to compile and annually update lists of hazardous waste sites and land designated as hazardous waste property throughout the state. As previously stated, the Project Site is not included on a list of hazardous materials sites pursuant to

Government Code §65962.5, including the DTSC EnviroStor database,[39] SWRCB's GeoTracker database,[40] and DTSC's current "Cortese" list.[41] As such, no impacts would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
e. **For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?**	☐	☐	☒	☐

Less than Significant Impact. The closest public use airport to the Project Site is the Yucca Valley Airport, located approximately 1.3 miles to the northwest of the Project Site. The Yucca Valley Airport is a public-use airport operated by the Yucca Valley Airport District that supports private flights and does not offer any commercial passenger flight services.[42] According to the San Bernardino County Airport Comprehensive Land Use Plan for the Yucca Valley Airport, the Project Site is located outside of the 60 CNEL contour line.[43] The Noise Element of the Yucca General Plan discusses noise contours near the airport; Policy N 1-2 would require noise-reducing site design and building construction in residential and mixed-use projects in areas with outdoor levels exceeding 65 dBA CNEL. Further, the Noise Element details that there are no portions of the Town located within the 65 CNEL contours of any airport. Despite being

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39 California Department of Toxic Substances Control, *EnviroStor*. Available online at: https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=58111+Twentynine+Palms+Highway+, accessed October 2, 2025.

40 State Water Resources Control Board, *GeoTracker*. Available online at https://geotracker.waterboards.ca.gov/map/?CMD=runreport&myaddress=58111+Twentynine%2BPalms+Highway+yucca+valley, accessed October 2, 2025.

41 California Department of Toxic Substances Control, *Hazardous Waste and Substances Site List (Cortese)*. Available online at: http://www.envirostor.dtsc.ca.gov/public/mandated_reports.asp , accessed October 2, 2025.

42 Town of Yucca Valley, *Town of Yucca Valley General Plan: Open Space and Conservation Element*, February 4, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/2594/637009395714400000, accessed October 3, 2025.

43 San Bernardino County, *Airport Comprehensive Land Use Plan: Yucca Valley Airport*, February 1992. Available online at: https://lus.sbcounty.gov/wp-content/uploads/sites/48/Airports/YuccaValley.pdf, accessed October 3, 2025.

within two miles of an airport, the Project would not result in a safety hazard or excessive noise for people residing or working in the Project Area. Therefore, impacts are less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
f. Would the project impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	☐	☐	☒	☐

Less than Significant Impact. While the Town does not have an adopted emergency response plan, the Town does have a Local Hazards Mitigation Plan (LHMP). Although the Safety Element of the Town's General Plan states that the LHMP will be updated to include evacuation routes, the most recent update to the LHMP does not include these routes. The Safety Element states that the Town's Circulation Plan routes are considered the backbone routes for evacuation purposes, but this is not explored in depth.[44]

The Project Site would be accessed via the existing driveways along Twentynine Palms Highway and Balsa Avenue. Additionally, internal circulation within the Project Site allows for two-way traffic circulation, providing connections between the parking areas, the drive-through component of the Project, and the internal roadways that link the site to adjacent land uses. As part of the review and approval of the Project, development plans would be reviewed by the San Bernardino Sheriff's Department and the San Bernardino County Fire Department prior to construction to ensure that alternative route planning to facilitate the passage of people and vehicles through/around any temporary required road closures occurs and is implemented, if needed. The Project does not anticipate the required closure of any public or private streets and would not impede emergency vehicle access to the Project Site or vicinity. Construction activities would be limited to the Project Site, and the Project would use the existing on-site driveways as access points for emergency vehicles. Included in such plans would be provisions for any needed signage for detours, training of flagmen, and provision for staging areas for emergency vehicles responding to a call, as required by the Town's sheriff and fire agencies. Thus, emergency access in and out of construction sites, including evacuation routes for construction workers, would remain during the construction process. Thus,

44 Town of Yucca Valley, *Town of Yucca Valley General Plan: Open Space and Conservation Element*, February 4, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/2596/637009395718470000, accessed September 30, 2025.

the Project would not impair the implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan, and no impacts would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
g. Would the project expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	☐	☐	☐	☒

No Impact. While the Project Site is vacant and undeveloped, the Project Site is largely surrounded by developed uses and does not include wildlands or high-fire-hazard terrain or vegetation. The California Department of Forestry and Fire Protection (CAL Fire) identifies and maps areas of significant fire hazard based on fuels, terrain, and other relevant factors. Wildfire risks in State Responsibility Areas (SRA) are called Fire Hazard Severity Zones and are grouped into moderate, high, and very high zones.[45] According to CAL Fire, the Town is not located in a Fire Hazard Severity Zone.[46] Therefore, implementation of the proposed Project would not directly or indirectly be subject to any wildfire risks. No impact would occur.

Mitigation Measures: No mitigation measures are required.

45 See Cal. Code Regs., tit. 24, § 702A for a definition of "fire hazard severity zones."

46 CAL FIRE, *Fire Hazard Severity Zone Viewer*, 2024. Available online at: https://experience.arcgis.com/experience/6a9cb66bb1824cd98756812af41292a0, accessed October 3, 2025.

3.3.10 Hydrology and Water Quality

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality?	☐	☐	☒	☐

Less than Significant Impact. The U.S. EPA establishes national water quality standards and regulates stormwater discharges through the National Pollutant Discharge Elimination System (NPDES) program pursuant to Section 402 of the Clean Water Act. The NPDES program for the Town is administered by the Colorado River Regional Water Quality Control Board (CRRWQCB); the NPDES permit develops waste discharge requirements that include the preparation and implementation of a Water Quality Management Plan (WQMP). The requirements included in the NPDES permit aim to control pollutants entering storm drain systems, educate the public about stormwater impacts, eliminate illicit discharges, and implement site-specific Best Management Practices (BMPs).

Since the Project Site encompasses approximately 1.01 gross acres and would result in ground disturbance of one acre or more, the Project is subject to the SWRCB NPDES Construction General Permit. Compliance with this permit requires the preparation and implementation of a Stormwater Pollution Prevention Plan (SWPPP) to minimize water quality impacts during construction. Furthermore, grading or construction operations under Town grading or construction permits are prohibited from allowing loose trash, rubbish, or debris to accumulate or to be carried offsite by wind or water; are required to keep trash, rubbish, and debris contained; and are required to provide for waste collection to prevent trash containers from overfilling, by Section 8.03, Construction Site Maintenance and Trash Containment of the YVMC. Additionally, the Project would be required to implement BMPs to address pollutant discharges associated with construction activities in accordance with Chapter 9.37, Soil Erosion and Dust Control, and Section 9.32.110, Stormwater Management, of the YVMC.

Project operations would release typical chemicals related to commercial uses into the Town's stormwater system. Operation of the Project would continue to adhere to the post-construction BMP requirements of Section 9.32.110 of the YVMC. Compliance with state and local regulatory requirements and the implementation of the appropriate BMPs would reduce potential water quality impacts from the Project to a less than significant level.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	☐	☐	☒	☐

Less than Significant Impact. The Project Site is currently vacant and undeveloped. The Project would introduce new impervious surfaces compared to existing conditions. However, this increase in impervious surfaces from Project implementation would not substantially decrease groundwater supplies or impede groundwater recharge as the Project Site is not used for groundwater recharge activities or extraction. Additionally, the Project includes 10,350 square feet of landscaping as well as a stormwater retention pond to provide permeable surfaces across the Project Site. Impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. Would the project substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner, which would:	☐	☐	☒	☐
i. Result in substantial erosion or siltation on-or off-site?				

Less than Significant Impact. The Project site is vacant and undeveloped. No streams or rivers traverse the Project Site. Soil disturbance would temporarily occur during Project construction due to trenching for soil compaction, excavation, and grading activities. As such, disturbed soils would be susceptible to high rates of erosion from wind and rain, resulting in sediment transport via stormwater runoff from the Project Site. However, the Project would be required to implement BMPs to address pollutant discharges associated with construction activities in accordance with Chapter 9.37, Soil Erosion and Dust Control, and Section 9.32.110, Stormwater Management, of the YVMC to minimize the runoff of sedimentation and

siltation pollutants during Project-related construction activities. Compliance with these local regulations would reduce impacts related to erosion and siltation on- or off-site to less than significant levels.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
ii. Result in flooding on-or off-site?	☐	☐	☒	☐

Less than Significant Impact. According to the Federal Emergency Management Agency's Flood Map Service Center, the Project Site is not located within a 100-year flood hazard area.[47] The proposed Project would be required to be constructed in accordance with the California Building Code (as amended by the YVMC) and Section 8.04.050, *Provisions for Flood Hazard Reduction: Standards of Construction* of the YVMC. It is not anticipated that the Project would increase surface runoff in a manner that would result in on- or off-site flooding. Thus, impacts are anticipated to be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
iii. Create or contribute runoff water, which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	☐	☐	☒	☐

Less than Significant Impact. As stated, while Project implementation would result in an increase in impervious area, the Project will be constructed in accordance with the California Building Code as well as Section 9.32.110, Stormwater Management, of the YVMC. Additionally, the Project includes 10,350 square feet of landscaping as well as a stormwater retention pond to provide permeable surfaces across the Project

47 Federal Emergency Management Agency, *FEMA Flood Map Service Center*. Available online at: https://msc.fema.gov/portal/search?AddressQuery=58133%2029%20Palms%20Hwy%2C%20Yucca%20Valley%2C%20CA%2092284, accessed October 10, 2025.

Site. Therefore, the Project is not expected to exceed the capacity of the existing/planned stormwater drainage systems, and less than significant impacts would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
iv. Impede or redirect flood flows?	☐	☐	☒	☐

Less than Significant Impact. As stated above, the Project Site is located outside of a 100-year flood hazard area and is located within an area identified as having little chance of flooding. Moreover, the Project is not of a size or scale that would have the potential to impede or redirect flood flows. Therefore, no impacts would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. In flood hazard, tsunami, or seiche zones, would the project risk release of pollutants due to project inundation?	☐	☐	☒	☐

Less than Significant Impact. As stated above, the Project Site is not located within a 100-year flood hazard area. The Project is not subject to the potential effects of a seiche, tsunami, or mudflows caused by a lack of upstream waterbodies. The Project site is located over 85 miles northeast of the Pacific Ocean. As such, the Project is not under threat of a tsunami. Additionally, according to the California Department of Water Resources, the Project Site is not located within a designated dam inundation area.[48] Therefore, the Project would not result in the release of pollutants in a flood hazard, tsunami, or seiche zone due to inundation, and no impacts would occur.

Mitigation Measures: No mitigation measures are required.

48 California Department of Water Resources, "California Dam Breach Inundation Maps." Available online at: https://fmds.water.ca.gov/maps/damim/. Accessed October 10, 2025.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
e. **Would the project conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?**	☐	☐	☐	☒

No Impact. As previously discussed, the Project would adhere to the BMP requirements of Section 9.32.110, Stormwater Management, of the YVMC. Further, the Project would be required to comply with the Water Quality Control Plan for the Colorado River Basin (Basin Plan), a master policy document for managing water quality issues in the region. The Project would adhere to the Basin Plan's requirements for BMPs. As such, the proposed Project would not substantially degrade water quality, significantly deplete groundwater supplies or interfere with groundwater recharge. Therefore, no impact related to the Basin Plan or sustainable groundwater management plans would occur.

Mitigation Measures: No mitigation measures are required.

3.3.11 Land Use and Planning

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project physically divide an established community?	☐	☐	☒	☐

Less Than Significant Impact. The physical division of an established community is typically associated with construction of a linear feature, such as a major highway or railroad tracks, or removal of a means of access, such as a local road or bridge, which would impair mobility in an existing community. The Project includes the construction of a Dutch Bros coffee shop with a drive-through. The Project would not introduce any new factors that could physically divide an established community, such as constructing major highways/roadway, storm channel, bridge, or utility transmissions. Therefore, impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	☐	☐	☒	☐

Less Than Significant Impact. The SCAG's Connect SoCal 2024 RTP/SCS is a long-range regional transportation and land use network plan that provides a vision of the region's future mobility and housing needs with economic, environmental, and public health goals. Similarly, the Town's General Plan serves as a blueprint for the Town's planning efforts and vision for the future.

Table 3.3-4, Project Consistency with SCAG's Connect SoCal Land Use Policies, demonstrates the Project's consistency with relevant Connect SoCal's goals. Policies that call for Town actions independent of review and approval or denial of the Project are omitted. The ultimate determination of whether the Project is consistent with applicable general plans lies with the Town of Yucca Valley's decision-making

bodies, specifically the Planning Commission, wherein they will review the Project and either approve or deny it; in the event that the Project is appealed, the appeal would be reviewed by the Town Council.

Table 3.3-4
Project Consistency with SCAG's Connect SoCal Land Use Policies

Connect SoCal 2024 RTP/SCS Goals	Discussion
Communities: Develop, connect, and sustain communities that are livable and thriving	**Consistent.** The proposed Project would develop a Dutch Bros coffee shop with a drive-through. The Project would be built to meet the most current CALGreen Buildings Standards, Title 24 standards, and the Town's Green Building Code (Section 8.02.100 of the YVMC). The development of the Project would be a source of employment for residents in the area, and the Project would also serve residents in the area.
Environment: Create a healthy region for the people of today and tomorrow	
Economy: Support a sustainable, efficient, and productive regional economic environment that provides opportunities for all residents	

Source: Southern California Association of Governments. SCAG 2024 RTP/SCS. Available online at: https://scag.ca.gov/sites/default/files/2024-05/23-2987-connect-socal-2024-final-complete-040424.pdf, accessed October 14, 2025.

The Project Site is designated with a Commercial (C) land use and is zoned for Mixed-Use Commercial (C-MU). Commercial land uses support local and regional serving retail and service uses, including uses such as shopping centers and malls, small commercial centers, hotels, commercial recreation uses such as movie theaters and bowling alleys, restaurants, supermarkets, and personal services. Fast food (with drive-through, delivery) is permitted in the C-MU zone only with a conditional use permit (CUP). The surrounding areas are designated as Commercial and zoned C-MU.

The consistency of the Project with applicable objectives and policies in the General Plan Land Use Element is presented in **Table 3.3-5, Project Consistency with the Land Use Element**. As shown in **Table 3.3-5,** the Project will be consistent with the following applicable policies.

While the Project requires a CUP in order to be approved, the Project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect. The Project would serve residents and would also be an employment opportunity for residents. Therefore, impacts would be less than significant.

Table 3.3-5
Project Consistency with the Land Use Element

Goals/Policies	Project Consistency
Goal LU 1: A balanced mixture of integrated land uses that provide desirable neighborhoods, vibrant commercial districts, passive and active open spaces, a strong economic and employment base, appropriate public facilities and services, and fiscal sustainability	
LU Policy 1-1: Encourage infill development to maximize the efficiency of existing and planned public services, facilities, and infrastructure.	**Consistent:** The Project would develop a Dutch Bros coffee shop with a drive-through. Fast food with drive-through is permitted in the zone only with a CUP, which the Applicant will be pursuing. The Project is located in close proximity to SR-62, and would take advantage of infrastructure improvements that have been made along the route. The Project would bring a highly desirable fast food business to the area and would contribute greatly to the Town's economic sustainability by serving residents and being a source of employment for the Town.
LU Policy 1-2: Require that adjacent land uses and development types complement one another.	
LU Policy 1-15: Maintain Yucca Valley's position as the economic hub of the Morongo Basin. Support a broad range of commercial retail, service, office, business park, research and development, light industrial, and industrial uses to provide employment opportunities and contribute to the Town's economic sustainability.	
LU Policy 1-20: Focus commercial development along SR-62 to take advantage of infrastructure improvements.	

Source: Town of Yucca Valley Land Use Element, 2014.

3.3.12 Mineral Resources

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	☐	☐	☐	☒

No Impact. According to the California Department of Conservation (DOC), Division of Mine Reclamation, the Project Site has no active mines.[49] Further, according to the Town's Open Space and Conservation Element of the General Plan, the Town lies outside of areas that have been mapped by the California Geological Survey for mineral resource classification, and the U.S. Geological Survey does not identify any mines, processing plants, or locations of potential mining resources within the Town. The Town of Yucca Valley likely does not contain mineral resources of statewide or regional importance.[50] Implementation of the proposed Project would therefore have no impact on the availability of a known mineral resource that would be of value to the region and residents of the state.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	☐	☐	☐	☒

No Impact. As previously discussed in **Section 3.3.12(a),** above, the Project would not result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan, or other land use plan. No impact would occur.

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49 California Department of Conservation, "Mines Online." Available online at: https://maps.conservation.ca.gov/mol/index.html. Accessed on October 3, 2025.

50 Town of Yucca Valley, *Town of Yucca Valley General Plan: Open Space and Conservation Element*, February 4, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/2596/637009395718470000, accessed September 30, 2025.

Mitigation Measures: No mitigation measures are required.

3.3.13 Noise

The following is a summary of the Project's Noise and Vibration Technical Report, included as **Appendix D, Noise and Vibration Technical Report,** to this document.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Will the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	☐	☐	☒	☐

Less Than Significant.

Construction Impacts

Construction of the Project would require the use of heavy equipment during grading/site preparation, installation of utilities, building fabrication, and finishing. Construction activities would also involve the use of smaller power tools, generators, and other sources of noise. During each stage of construction, several types of equipment could potentially be operating concurrently, and noise levels would vary based on the amount of equipment in operation and the location of the activity. The Federal Highway Administration's (FHWA) Roadway Construction Noise Model (RCNM) has compiled data regarding the noise-generating characteristics of specific types of construction equipment and typical construction activities.

With the use of the RCNM, as detailed in **Appendix D** to this report,[51] the construction noise levels forecasted for the sensitive receptors are presented in **Table 3.3-6, Estimated Exterior Construction Noise at Sensitive Receptors.** Noise levels would diminish notably with distance from the construction site at a rate of 6 dB(A) per doubling of distance (noise from stationary or point sources is reduced by about 6 dB(A) for every doubling of distance at acoustically hard locations). For example, a noise level of 86 dB(A) Leq measured at 50 feet from the noise source to the receptor would decline to 80 dB(A) Leq at 100 feet from the source to the receptor and fall by another 6 dB(A) Leq to 74 dB(A) Leq at 200 feet from the source to the receptor. These noise attenuation rates assume a flat and unobstructed distance between the noise

51 Project construction noise levels were calculated based on the Project's anticipated mix of construction equipment with the FHWA RCNM Version 1.1.

generator and the receptor. Furthermore, it should be noted that increases in noise levels at sensitive receptors during construction would be intermittent and temporary and would not generate continuously high noise levels. In addition, the construction noise experienced at sensitive receptors during the initial periods of construction (i.e., site preparation/grading/foundations) typically would be reduced in the later construction periods (i.e., interior building construction).

Table 3.3-6
Estimated Exterior Construction Noise at Sensitive Receptors

Sensitive Land Uses [a]	Distance to Project Site (feet)	Estimated Construction Noise Levels [dB(A) Leq]	Exceed FTA 90 dB(A) 1-Hour Leq Criteria?
Debris Removal			
1. Residences to the south	228	67.2	No
Grading			
1. Residences to the south	228	66.2	No
Building Construction			
1. Residences to the south	228	63.7	No

[a] *See* ***Figure 4*** *of Appendix D for locations of sensitive receptors.*
[b] *While the project would include construction activities up to the adjacent property lines, consistent with FTA methodology, these calculations are based on distances from the center of the site to the receptors.*
See ***Appendix D.***

Temporary construction, maintenance, and repair activities are exempt from the YVMC regulations regarding noise so long as the temporary construction does not take place between the hours of 10:00 PM and 7:00 AM.[52] As the Project would comply with the daytime construction hours established in the YVMC, this analysis also uses the Federal Transit Administration's (FTA) general construction noise criteria of 90 dB(A) Leq (1-hour) to provide additional context for the Project's potential to generate daytime construction noise impacts. While construction activity would increase noise levels in the vicinity of the Project Site (see **Table 3.3-6**), the Project's construction activities would generally not exceed the FTA's general construction noise criteria of 90 dB(A) Leq (1-hour) at any sensitive receptors. Furthermore, Project construction would not occur during restricted periods, and thus, the Project would be consistent with the criteria set forth in the YVMC. As such, construction noise impacts would be ***less than significant,*** and no mitigation is required.

52 Town of Yucca Valley, *Yucca Valley Municipal Code*. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-16234, accessed November 5, 2025.

To further minimize construction noise and ensure consistency with General Plan Policy N 1-15,[53] the following best management practices (BMPs) are recommended to be incorporated as Project design features. These measures are not required to reduce a potentially significant impact, since construction noise is exempt under YVMC during permitted hours and modeled levels remain below the FTA's 90 dB(A) Leq threshold, but they provide additional noise control during construction.

1. During all Project grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards.

2. The contractor shall place all stationary construction equipment so that emitted noise is directed away from noise-sensitive receptors nearest the project site.

3. As applicable, all equipment shall be shut off and not left to idle when not in use.

4. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction.

5. Jackhammers, pneumatic equipment and all other portable stationary noise sources shall be shielded and noise shall be directed away from sensitive receptors.

6. The project proponent shall mandate that the construction contractor prohibit the use of music or sound amplification on the project site during construction.

7. The construction contractor shall limit haul truck deliveries to the same hours specified for construction equipment.

Operational Noise

Traffic Noise

A traffic analysis for the Project was prepared by CR Associates.[54] Based on the traffic analysis contained therein, the Project is anticipated to generate approximately 358 average daily traffic trips (ADT).[55] The

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53 Town of Yucca Valley General Plan Policy N 1-15 states: "Require the design and construction of industrial and commercial development to minimize excessive offsite noise impacts to surrounding properties." *Town of Yucca Valley General Plan: Noise Element*, February 4, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/2594/637009395714400000, accessed February 25, 2026.

54 Chen Ryan Associates, *Traffic Scoping Memorandum – Dutch Bros Coffee Project*, November 2025.

55 Chen Ryan Associates, *Traffic Scoping Memorandum – Dutch Bros Coffee Project*, November 2025.

closest roadway segment with recorded Caltrans average daily traffic volume data is on State Route 62, approximately 3,982 feet west of the Project Site at Joshua Lane. According to Caltrans data, this roadway segment carries approximately 11,700 average daily trips at Joshua Lane.[56] Based on this data, it is clear the Project's maximum of 358 daily trips would not have the potential double traffic volumes on existing roadways in the vicinity of the Project Site. Since it would take a doubling (i.e., a 100 percent increase) of roadway traffic volume to increase noise levels by 3 dB(A), the addition of traffic volume from operation of the Project would not increase traffic to levels capable of producing a 3 dB(A) ambient noise increase. Additionally, the Project is consistent with the surrounding land uses, which currently generate mobile noise sources typical of a commercial use. As such, any noise increase would be imperceptible, and impacts would be less than significant.

Parking & Drive-Thru Noise

Various noise events would occur periodically from the Project's parking uses. Such periodic events would include activation of car alarms, sounding of car horns, slamming of car doors, engine revs, and tire squeals. Automobile movements would comprise the most continuous noise source and would generate a noise level of approximately 65 dB(A) at a distance of 25 feet. Car alarm and horn noise events generate sound levels as high as 75 dB(A) at a reference distance of 25 feet, however these noise sources would be sporadic.

Parking for this Project would be provided in 18 spaces in a surface lot on the Project Site. It should also be noted that the existing urban environment of the Project Site currently generates noise levels associated with parking and vehicular noise sources identified above. Although the Project would increase the number of vehicles parking in the area, the types of noise associated with vehicles accessing the parking lot would be similar to those currently occurring in the vicinity of the Project Site. While periodic noise levels from car alarms, horns, slamming of doors, etc., would increase as a result of the Project, these events would not occur consistently over a 24-hour period and thus would not have the potential to increase ambient noise levels at off-site locations by 5 dB(A) Ldn or more, nor exceed the Town's exterior noise standards at off-site locations. As such, noise impacts from the parking areas would be considered less than significant.

As stated in the Project Description, the Project proposes the operation of a dual-lane drive-through facility designed to accommodate 23 queued vehicles that would operate daily between the hours of 5:00 AM and

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56 Caltrans, "Annual Average Daily Traffic," available at: https://gisdata-caltrans.opendata.arcgis.com/datasets/d8833219913c44358f2a9a71bda57f76_0/explore?location=34.123058%2C-116.413158%2C18.35

11:00 PM. Based on field data recorded for a similar use,[57] drive-through activities may generate noise levels of approximately 56.1 dBA Leq at a distance of 50 feet. As shown in **Appendix D,** this data was used to estimate exterior noise levels at the nearby residential receptors. **Table 3.3-7, Exterior Noise Levels at Off-Site Receptors**, summarizes the estimated noise levels from parking and drive-through related noise at the nearby residences. As shown, exterior noise levels would not exceed existing noise levels during the daytime or nighttime, and impacts would be less than significant.

Table 3.3-7
Exterior Noise Levels at Off-Site Receptors

Off-Site Receptor [a]	Existing Noise Levels (Daytime/Nighttime)[b]	Estimated Noise Levels (dBA Leq)	Exceed Existing Noise Levels?
1. Residences to the south	48.8/50.7	42.8	No

[a] *See **Figure 4** of **Appendix D,** Noise Monitoring and Sensitive Receptor Location Map*
[b] *See **Appendix D, Noise & Vibration Technical Report***
Source: Impact Sciences, October 2025.

Stationary Noise Sources

As part of the Project, new mechanical equipment, HVAC units, and exhaust fans could be installed on the roof or near the proposed structures. Although the operation of this equipment would generate noise, the design of these on-site HVAC units and exhaust fans would be required to comply with the regulations of the YVMC. Specifically, Chapter 9.34 of the YVMC regulates stationary sources of noise such as HVAC units on neighboring properties. HVAC noise from the Project would also be substantially similar to existing conditions in the Project area and would not be considered a new type of noise source. As such, noise from stationary sources would be less than significant.

Mitigation Measures: No mitigation measures are required.

57 Field data recorded at a commercial retail center with drive-through's for a Panda Express, Taco Bell, and Dutch Bros. Vehicle traffic, parking lot activity, drive-through's and speakers, and truck loading/unloading activities were observed during the measurement. See Appendix D.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project generate excessive groundborne vibration or groundborne noise levels?	☐	☐	☒	☐

Less than Significant Impact. The FTA provides ground-borne vibration impact criteria with respect to building damage during construction activities. PPV, expressed in inches per second, is used to measure building vibration damage. Construction vibration damage criteria are assessed based on structural category (e.g., reinforced-concrete, steel, or timber). FTA guidelines consider 0.2 inch/sec PPV to be the significant impact level for non-engineered timber and masonry buildings. Structures or buildings constructed of reinforced concrete, steel, or timber have a vibration damage criterion of 0.5 inch/sec PPV pursuant to FTA guidelines. Although the nearby structures appear to be constructed of reinforced concrete, steel, or timber, this analysis conservatively applies the 0.2 inch/sec PPV threshold typically applied to non-engineered timber and masonry buildings.

The vibration levels at nearby structures are shown below in **Table 3.3-8, Vibration Levels at Off-Site Structures from Project Construction.**

Table 3.3-8
Vibration Levels at Off-Site Structures from Project Construction

Sensitive Uses Off-Site [a]	Distance to Project Site (ft.)	Vibration Threshold (PPV)	Estimated PPV (in/sec)
1. Commercial structure to the west	Adjacent [b]	0.2 in/sec	0.191
2. Commercial structure to the east	46	0.2 in/sec	0.036
3. Residences to the south	228	0.2 in/sec	0.003

[a] *See **Figure 4** of **Appendix D** for locations of off-site structures.*
[b] *These calculations are based on distance from the site boundary to the structures. See **Appendix D**.*

The vibration velocities predicted to occur at the nearest off-site structures would be 0.191 in/sec PPV. As shown in **Table 3.3-8**, Project construction vibration levels would not have the potential to exceed the standard 0.2 in/sec threshold established by the FTA. This impact would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. **For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?**	☐	☐	☒	☐

Less Than Significant Impact. The closest airport is the Yucca Valley Airport, which is located 1.3 miles from the Project Site. However, the Yucca Valley Airport Comprehensive Land Use Plan shows that the Project Site is outside the 60 dBA CNEL noise contour for the airports.[58] While aircraft operations may contribute to the noise in the project area from this airport, the Project Site is not expected to experience airport-related noise levels in excess of the Town's exterior standards. As such, the Project would not expose people residing or working in the project area to excessive airport-related noise levels. This impact would be less than significant.

Mitigation Measures: No mitigation measures are required

58 San Bernardino County Planning Department, *Yucca Valley Airport Comprehensive Land Use Plan*, February 1992. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/2600/637009400192130000, accessed November 5, 2025

3.3.14 Population and Housing

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	☐	☐	☒	☐

Less than Significant Impact. A Project could induce population growth in an area either directly, through the development of a new business, or indirectly, through the extension of roads or other infrastructure. The Project does not include the addition of housing. Although the Project would increase employment in the area, it is anticipated that employees of the Project would primarily consist of existing residents in the Town or the San Bernardino County area, and the Project would not result in a high number of employees permanently relocating to the region. Estimating the number of future employees who may choose to relocate to the County would be highly speculative, since many factors influence personal housing location decisions (e.g., family income levels and the cost and availability of suitable housing in the local area). Nevertheless, in an effort to present a worst-case population growth scenario, this analysis assumes the Project would employ up to 32 full-time employees, all of whom would permanently relocate to the Town. Based on the Town's average household size of 2.41 persons, the Project could result in a nominal population increase of approximately 77 persons.[59] As of 2025, the Town has an estimated population of 22,027 persons.[60] The Connect SoCal 2024 SCAG growth forecasts estimate the Town's population to reach 24,000 persons by the year 2050, representing a total increase of 1,973 persons.[61] The Project's potential maximum increase of 77 persons would represent approximately 4 percent of the Town's projected increase in population between the years 2025 and 2050. However, this is a conservative estimate that assumes that these persons would be relocating to the Town. Therefore, the Project would not induce substantial unplanned population growth in an area, either directly or indirectly, and impacts would be less than significant.

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59 California Department of Finance, E-*5 Population and Housing Estimates for Cities, Counties, and the State.* Available online at: https://dof.ca.gov/Forecasting/Demographics/Estimates/e-5-population-and-housing-estimates-for-cities-counties-and-the-state-2020-2025/ , accessed October 3, 2025.

60 *Ibid.*

61 Southern California Association of Governments, *SCAG 2024 RTP/SCS Growth Projections*, September 2023. Available online at: https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fscag.ca.gov%2Fsites%2Fdefault%2Ffiles%2F2024-05%2Fscag2024-frtp-sed.xlsx&wdOrigin=BROWSELINK, accessed October 3, 2025.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	☐	☐	☒	☐

Less than Significant Impact. The Project Site is currently vacant. No housing exists on-site. Therefore, the Project would not displace existing people or housing, and no impacts would occur.

Mitigation Measures: No mitigation measures are required.

3.3.15 Public Services

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times or other performance objectives for any of the public services:	☐	☐	☒	☐

i. **Fire Protection?**

Less than Significant Impact. Fire services in the Town are provided by the San Bernardino County Fire Protection District (SBCFPD). The SBCFPD is a community-based, all-hazard emergency services provider that consists of five volunteer stations and more than 30 full-time fire stations in the County.[62] The SBCFPD operates one fire station within the Town limits (i.e., Fire Station No. 41), one in nearby unincorporated Yucca Mesa (i.e., Fire Station No. 42), and another in Joshua Tree (i.e., Fire Station No. 36). The closest fire station to the Project Site is Fire Station No. 41 located at 57201 Twentynine Palms Highway, 1.5 miles southwest of the Project Site.

As discussed in **Section 3.3.14, Population and Housing**, the Project would result in an increase in employees, which could result in an indirect increase in the Town's population. The Project's potential maximum increase of 77 persons would represent four percent of the Town's projected increase in population between the years 2025 and 2050. However, this is a conservative estimate that assumes that these persons would be relocating to the Town. Based on the relatively short distance from Fire Station No. 41 to the Project Site and the small increase in population generated from the Project, fire protection response will be adequate. Additionally, the Project will be required to comply with the California Fire Code (CFC), California Building Code (CBC), and National Fire Protection Association standards. The Project will also be required to include features such as established emergency procedures, an automatic fire-extinguishing system, an automatic smoke detection system, an emergency voice/alarm

62 San Bernardino County Fire Protection District, "Home." Available online at: https://sbcfire.org/, accessed October 3, 2025.

communication system, manual alarm fire boxes, etc. As such, a new fire station will not be needed to serve the Project, and impacts with respect to fire protection will be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
ii. Police protection?	☐	☐	☒	☐

Less than Significant Impact. The San Bernardino County Sheriff's Department (SBCSD) serves the Town of Yucca Valley as well as the unincorporated portions of the County of San Bernardino. The Yucca Valley Patrol Station, located at 63665 Twentynine Palms Highway, approximately 6.93 miles east of the Project Site, is the closest Sheriff station to serve the Project. The Project is not expected to result in a substantial increase in population compared to existing conditions, as discussed in **Section 3.3.14, Population and Housing**. The Project would construct new driveways along Balsa Avenue to provide vehicular access to the Project Site. Upon site plan review and approval, the Project Site would be required to meet the Town/County's emergency access requirements, and thus, would also provide adequate emergency access for the SBCSD. Based on the relatively short distance from the Yucca Valley Patrol Station to the Project Site and the negligible increase in population generated from the Project, the Project will not have the potential to substantially increase the demand on the SBCSD. Further, construction activities associated with the Project would be required to comply with the 2022 CBC, specifically Chapter 33 (Safeguards During Construction), which includes emergency access requirements, minimizing site safety hazards, and potential construction-related impacts on police services. Thus, the Project would not result in the need for new or physically altered police protection facilities and would not adversely impact service ratios and response times of the SBCSD. A less than significant impact would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
iii. Schools?	☐	☐	☒	☐

Less than Significant Impact. The Project Area is served by the Morongo Unified School District (MUSD). According to the 2024-2025 MUSD Local Control and Accountability Plan, the MUSD serves approximately

7,359 students in 18 public schools; these 18 schools consist of 11 elementary schools, two middle schools, two comprehensive high schools, one continuation high school, and two alternative education programs.[63] The closest MUSD school to the Project Site is the Onaga Elementary School, located approximately 1.13 miles south of the Project Site at 58001 Onaga Trail in Yucca Valley.

As stated in **Section 3.3.14, Population and Housing**, the Project could result in a nominal increase within the County's population, conservatively assuming that the Project would not be served by the Town's existing population. As such, pursuant to the California Government Code § 65995,[64] the Project Applicant would be required to pay school fees established by MUSD, payment of which, in accordance with existing rules and regulations regarding the calculation and payment of such fees, would, by law, provide full and complete mitigation for any potential direct and indirect impacts to schools as a result of the Project. Therefore, less than significant impacts would occur.

Therefore, the project's impacts on school services would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
iv. Parks?	☐	☐	☒	☐

Less than Significant Impact. A project could have a significant impact on local parks if the population increases the demand for recreation and park services. The Town's Parks and Recreation Master Plan details that the Town contains a total of 270 acres of community and neighborhood parks, special-use recreational facilities, and open space used for active recreation.[65] Typically, an increase in demand for parks is created by the development of new housing and/or population-generating actions. The proposed Project would develop a Dutch Bros coffee shop with a drive-through. As stated in **Section 3.3.14, Population and Housing**, the Project could result in a nominal increase within the County's population, conservatively assuming that the Project would not be served by the Town's existing population. The

63 Morongo Unified School District, *Parent & Partner Guide to the 2024-25 Local Control & Accountability Plan.*, 2024. Available online at: https://core-docs.s3.us-east-1.amazonaws.com/documents/asset/uploaded_file/3674/MUSD/5008752/LCAP-infographic-MorongoUSD-2024-25-PPG-100424.pdf, accessed October 3, 2025.

64 Also known as SB 50 – the Leroy F. Greene School Facilities Act of 1998

65 Town of Yucca Valley, *Yucca Valley Parks and Recreation Master Plan Update*, adopted January 15, 2019. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/6499/637823568310100000, accessed October 3, 2025.

Project does not propose unplanned residential development or significantly increase the use of existing neighborhood or regional parks and recreational facilities in a way that would lead to their substantial physical deterioration. Therefore, the Project's impacts on local recreation and park services will be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
v. Other public facilities?	☐	☐	☐	☒

No Impact. A significant impact could occur if a project includes substantial employment or population growth, which increases the demand for library services. The closest public library to the Project Site is the Yucca Valley Branch Library, located approximately 1.3 miles southwest of the Project Site. As stated in **Section 3.3.14, Population and Housing**, the Project could result in a nominal increase within the County's population, conservatively assuming that the Project would not be served by the Town's existing population. This increase would be nominal and is not anticipated to substantially impact the Yucca Valley Branch Library's services or facilities. As such, no impact would occur.

Mitigation Measures: No mitigation measures are required.

3.3.16 Recreation

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	☐	☐	☒	☐

Less than Significant Impact. The nearest park to the Project Site is the Community Center Park, located 1.3 miles west of the Project Site. As discussed in detail throughout this analysis, given the minimal potential population increase, the Project would be well served by the nearby parks and would not result in a substantial increase in demand for parks or any recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated. Therefore, this impact is less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Does the project include recreational facilities or require the construction or expansion of recreational facilities, which might have an adverse physical effect on the environment?	☐	☐	☒	☐

Less than Significant Impact. As previously stated, the Project's minimal potential increase in population would be well served by the Project's proposed open space as well as nearby parks. The Project would not require the construction or expansion of recreational facilities. Therefore, this impact is less than significant.

Mitigation Measures: No mitigation measures are required.

3.3.17 Transportation

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. **Would the project conflict with a program plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?**	☐	☐	☒	☐

Less than Significant Impact. The Town's General Plan Mobility Element provides policy direction for the transportation system and links circulation strategies with those of population growth, environmental quality, and economic well-being. The Mobility Element establishes key goals, policies, programs, and requirements for achieving a transportation system that balances the needs of all road users. The Local Transportation Assessment prepared by CR Associates for the Project describes the Project Site's alternative transportation modes and consistency with VMT policies (see **Appendix E, Local Transportation Assessment**).

Pedestrian

Sidewalks are proposed within the Project site to provide pedestrian connectivity between the Project and existing off-site sidewalks immediately adjacent to the site. Continental crosswalks are provided throughout the Project site to enhance driver awareness within internal roadways and parking lot areas. Specifically, the site plan identifies a dedicated accessible path connecting the public right-of-way and parking areas to the walk-up service window, ensuring pedestrian movements are separated from the drive-through queue (see **Figure 2.3-1**). Based on the proposed and existing features, pedestrian facilities are considered adequate to accommodate project-related pedestrian activity.

Bicycle

An existing Class III bicycle facility runs east/west along Twentynine Palms Highway, while no designated bicycle facilities currently exist along Balsa Avenue. The Yucca Valley General Plan Circulation Element identifies a future Class II bicycle lane along Balsa Avenue adjacent to the Project site. The proposed Project site plan would allow bicycle access via adjacent roadways and internal drive aisles and includes a designated bicycle rack for customers. The Project's access driveways are designed to accommodate the future Class II lane on Balsa Avenue without conflict.

Transit

The nearest bus stop is located on the south side of Twentynine Palms Highway, approximately 300 feet walking distance from the Project Site, and provides service for the following Basin Transit bus routes:

- **Route 1** – This bus route is serviced along Twentynine Palms Highway and connects the Yucca Valley Transit Center, Hi-Desert Hospital, Indian Cove, and the Twentynine Palms Transit Center.
- **Route 7A** – This bus route is serviced along Twentynine Palms Highway and connects the Yucca Valley Transit Center, Walmart Center, and Town Hall.
- **Route 21** – This bus route is serviced along Twentynine Palms Highway and connects the Yucca Valley Transit Center, Landers Post Office, Holiday's Market, and Mojave Market.

Based on the preliminary review of the Project's site plan, the proposed Project would not conflict with existing or planned transit facilities. The Project would not make any changes to the public rights-of-way in the project vicinity or generate a substantial number of daily or peak-hour vehicle trips for construction or typical operations to warrant modifications to any transportation facilities (e.g., vehicular, transit, bicycle, or pedestrian). Construction-related traffic would be temporary and limited, involving approximately 800 cubic yards of soil export (roughly 50-80 truck trips total spread over the grading phase), which would not disrupt the circulation system. As such, the Project would not conflict with any program plan, ordinance, or policy addressing the circulation system, including transit, roadway, bicycle, and pedestrian facilities. Therefore, impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Would the project conflict or be inconsistent with *CEQA Guidelines* section 15064.3, subdivision (b)?	☐	☐	☒	☐

Less than Significant Impact. *State CEQA Guidelines* Section 15064.3, Subsection (b), states that "generally, [land use] projects within one- half mile of either an existing major transit stop, or an existing high quality transit corridor should be presumed to cause a less than significant transportation impact;" *State CEQA Guidelines* section 15064.3 (b)(2) requires the use of VMT to evaluate a project's transportation impacts. VMT analyzes the number of trips and miles traveled by motor vehicles associated with a development program or project. A Local Transportation Assessment was prepared by CR Associates in January 2026 (**Appendix**

E) to provide trip-generating characteristics, analysis assumptions, and VMT screening criteria. The Town does not have traffic analysis guidelines to consult; therefore, the traffic analysis and VMT screening criteria for the Project were based on the San Bernardino County Transportation Impact Study (TIS) Guidelines. The County's TIS Guidelines establish procedures to ensure consistency of analysis and the adequacy of information presented regarding development projects.[66] However, not all projects require a TIS. According to the County's TIS Guidelines, the requirement to prepare a TIS should be based upon, but not limited to, one or more of the following criteria:

- If a project generates 100 or more trips without consideration of pass-by-trips during any peak hour.
- If a project is located within 300 feet of
    - The intersection of two streets designated as Collector or higher in the County's General Plan, or the Department's Master Plan or
    - An impacted intersection as determined by the Traffic Division.
- If this project creates safety or operational concerns.
- The project has the potential to generate VMT that could result in a transportation impact as noted in the significance criteria of the County's TIS Guidelines.
- If a project generates less than 100 trips without consideration of pass-by-trips during any peak hour, a study may be required if there are special concerns.

According to the Local Transportation Assessment (**Appendix E**), applicable screening criteria were analyzed to determine if the project would be screened out from conducting a detailed VMT analysis:

- Project Type Screening
    - These projects include: K-12 schools, local-serving retail less than 50,000 square feet, local parks, day care centers, local-serving gas stations, local-serving banks, student housing projects, and local-serving community colleges that are consistent with the assumptions noted in the RTP/SCS.

66 San Bernardino County, *Traffic Impact Study Guidelines*, 2019. Available online at: https://www.sbcounty.gov/uploads/DPW/docs/Traffic-Study-Guidelines.pdf, accessed November 20, 2025.

- The Project is a 1,025 SF coffee shop with a drive-through, which is less than the 50,000 sq. ft. threshold for a local serving retail space. Therefore, the Project Type screening criteria are met for the Project.

- Small Project Screening
  - Projects that generate less than 110 daily vehicle trips can be presumed to cause a less-than-significant impact and would not require a detailed VMT analysis.
    - As indicated in **Appendix E**, the Project is expected to generate approximately 358 daily trips, including 89 AM peak hour trips and 30 PM peak hour trips, more than the threshold of 110 daily vehicle trips. Therefore, the Small Project Screening criteria are not met for the Project.
- Transit Priority Area (TPA) Screening
  - Projects located within a Transit Priority Area (TPA) as determined by the most recent SCAG RTP/SCS can be presumed to cause a less-than-significant impact and would not require a detailed VMT analysis.
    - Based on the SBCTA VMT Screening Tool, the proposed Project is not located within a TPA. Therefore, the Transit Priority Area screening criteria are not met for the Project.

Based on review of the VMT screening criteria noted above, the Project meets the Project Type screening criteria. Therefore, the Project would be presumed to have a less than-significant VMT impact, and no further VMT analysis is required for the Project. As such, the Project would not conflict with *State CEQA Guidelines* section 15064.3 (b). Therefore, impacts are less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. Would the project substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	☐	☐	☒	☐

Less than Significant Impact. A significant impact could occur if a project were to include a new roadway design or introduce a new land use or features into an area with specific transportation requirements and

characteristics that have not been previously experienced in that area, or if access or other features were designed in such a way as to create hazard conditions. The Project Site consists of a vacant, undeveloped parcel. The Project involves the development of a Dutch Bros coffee shop with a dual-lane drive-through. The Project drive-through operations would include the construction of two entrance drive-through lanes that continue to the dual order boards, and then merge to one lane prior to the pay and pickup windows.

The drive-through queue storage length from the drive-through entrance to the pick-up window is approximately 520 feet. Assuming 22 feet per vehicle, the proposed drive-through lane capacity is approximately 23 vehicles. According to the drive-through queueing analysis included in Chapter 7 of the Local Transportation Assessment in **Appendix E**, drive-through queueing data collection was conducted at three existing Dutch Bros coffee shop locations (La Quinta, Cathedral City, and Indio), which are comparable to the proposed Project's location in that the existing locations also have dual drive-through lanes and have limited to no indoor seating. The Local Transportation Assessment determined that the peak observed queue was 23 vehicles between 8:15 and 8:30 AM during the AM peak period on a typical weekday at the existing La Quinta location; however, the average queue length observed across comparable sites was significantly lower at approximately 16-18 vehicles.

As noted previously, the proposed drive-through queuing capacity for the Project would be 23 vehicles. Therefore, the proposed drive-through capacity would accommodate the anticipated peak drive-through demand. The Project's drive-through entrance is set back from the public right-of-way and is accessed via internal drive aisles shared with the adjacent commercial center. In the unlikely event that demand exceeds the 23-vehicle capacity, the queue would extend into the private internal drive aisle rather than the public right-of-way (Twentynine Palms Highway or Balsa Avenue). This internal queuing would not obstruct emergency access or create a hazard for through-traffic on the public highway. Additionally, the site plan incorporates pedestrian safety features, including continental crosswalks and a dedicated accessible path that is separated from the drive-through queuing area to prevent vehicle-pedestrian conflicts (see **Figure 2.3-1**). The Project does not propose any hazardous geometric design features and would not include any incompatible uses. As such, there would be no impacts regarding hazards due to a design feature or incompatible uses.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. Would the project result in inadequate emergency access?	☐	☐	☒	☐

Less than Significant Impact. Project Site access will be provided via the existing driveways along Twentynine Palms Highway and Balsa Avenue. The Local Transportation Assessment prepared for the Project (see **Appendix E**) provides a description of these driveways:

- The driveway situated on Twentynine Palms Highway is located approximately 500 feet west of Balsa Avenue and provides 3/4 access (left-out restricted). This driveway serves as one of the two access points to the retail land uses adjacent to the proposed Project, such as Big 5 Sporting Goods and Walgreens. This driveway provides a secondary emergency ingress/egress point for the site.

- The driveway situated on Balsa Avenue is located approximately 225 feet south of Twentynine Palms Highway and provides full-movement access. This driveway serves as one of the two access points to the retail land uses adjacent to the Project Site. The Local Transportation Assessment confirms that this driveway operates efficiently, ensuring unimpeded access for emergency responders entering from the residential areas to the south or Twentynine Palms Highway.

Internal circulation within the Project Site allows for two-way circulation, providing connections between the parking areas, the drive-through component of the Project, and the internal roadways that link the site to adjacent land uses. Access to the drive-through is provided on the south side of the Project Site and can be reached via the internal roadways from both the southern and northern portions of the site. The drive-through exit is located on the north side of the Project Site and connects to the northern internal roadway.

The Project's drive-through queue storage (approximately 520 feet) is designed to contain vehicle stacking within the Project Site boundaries. As discussed above, the queue capacity (23 vehicles) is sufficient to accommodate peak demand without spilling out onto the public right-of-way. This design ensures that the driveways at both Balsa Avenue and Twentynine Palms Highway remain clear of obstruction, preserving immediate access for emergency vehicles at all times.

The Project would utilize the existing driveways on-site for primary and emergency vehicular access. The Project would incorporate all applicable design and safety standards and regulations outlined in Chapter 33 of the 2025 California Building Code, and Chapter 11 (Construction Requirements for Existing Buildings)

of the California Fire Code, including minimum fire lane widths and turning radii for emergency apparatus.

Construction activities, including equipment staging and material storage, would be contained entirely within the Project Site boundaries. No prolonged lane closures on Twentynine Palms Highway (a primary regional evacuation route) or Balsa Avenue are proposed. Therefore, construction would not impede emergency response times or evacuation procedures.

Further, the Project would submit all Project plans to the Town, the SBCPD, and the SBCFD to confirm that the Project would provide adequate on-site access to emergency services. Therefore, the Project would not result in inadequate emergency access, and impacts would be less than significant.

Mitigation Measures: No mitigation measures are required.

3.3.18 Tribal Cultural Resources

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code section 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:	☐	☐	☒	☐
i. Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k)?				

Less Than Significant Impact. On March 11, 2025, in accordance with Assembly Bill 52, the Town provided notice to the following Native American groups for consultation on the Project: Morongo Band of Mission Indians, Quechan Indian Tribe of the Fort Yuma Reservation, Serrano Nation of Mission Indians, Twenty-Nine Palms Band of Mission Indians, and the Yuhaaviatam of San Manuel Nation (YSMN). On October 10, 2025, the Agua Caliente Band of Cahuilla Indians was contacted for an opportunity to consult on the Project.

A Sacred Lands File (SLF) records search request was submitted to the Native American Heritage Commission (NAHC) for the Project on October 23, 2025, and a response was received on October 24, 2025 (see **Appendix C**); this response detailed that the results of the SLF were negative.

Consultation did not result in the identification of any specific tribal cultural resources (TCRs) within the Project site that are listed or eligible for listing in the California Register of Historical Resources (CRHR) or a local register. Given the negative results of the SLF and the absence of identified listed resources during the consultation process, the Project would not cause a substantial adverse change in the significance of a known TCR as defined by PRC Section 21074. Therefore, impacts would be less than significant.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
ii. **A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code Section 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code Section 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe?**	☐	☒	☐	☐

Less than Significant with Mitigation Incorporated. As previously discussed, an NAHC SLF search was negative for the Project Site. However, through the Assembly Bill 52 consultation process, the Agua Caliente Band of Cahuilla Indians and YSMN identified the potential for undiscovered subsurface tribal cultural resources to be present in the area. Agua Caliente Band of Cahuilla Indians requested that a tribal monitor be present during ground-disturbing activities. YSMN indicated that while they do not currently require a monitor, they requested specific mitigation measures be implemented to address the treatment of any inadvertent discoveries. To address the potential for the Project to impact unknown subsurface TCRs that may be significant under PRC Section 5024.1(c), the Town has agreed to incorporate the tribes' requested protocols.

Implementation of **Mitigation Measures MM TCR-1** and **MM TCR-2** ensures that if any TCRs are encountered during construction, they will be identified, evaluated, and treated in coordination with the consulting tribes. Therefore, impacts to potential TCRs would be reduced to a less than significant level.

Mitigation Measures:

MM TCR-1 The Yuhaaviatam of San Manuel Nation (YSMN) Cultural Resources Management Department and the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic Preservation Office shall be contacted regarding any pre-contact cultural resources discovered during Project implementation. Information regarding the nature of the find shall be provided to the tribes to allow Tribal input with regard to significance and treatment. If the find is deemed significant, a Cultural Resources Monitoring and Treatment Plan shall be prepared in coordination with the consulting tribes, and all

subsequent finds shall be subject to this Plan. If significant Tribal Cultural Resources are found, the consulting tribes may elect to place a tribal monitor on-site for the duration of the ground-disturbing activities in the vicinity of the find.

MM TCR-2 Any archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the applicant and Town of Yucca Valley for dissemination to YSMN and ACBCI. The Town of Yucca Valley and/or Applicant shall consult in good faith with the consulting tribes throughout the Project's ground-disturbing activities and until all cultural resource documentation is finalized.

3.3.19 Utilities and Service Systems

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. **Would the project require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?**	☐	☐	☒	☐
b. **Would the project have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?**	☐	☐	☒	☐
c. **Would the project result in a determination by the wastewater treatment provider, which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?**	☐	☐	☒	☐

Less than Significant Impact.

Water

The Hi Desert Water District (HDWD) supplies water services to the Town. HDWD currently has four main sources of water supply—groundwater from Warren Valley Basin, groundwater from Reche/Ames/Means Valley Groundwater Basin, septic system and irrigation return flows to groundwater, and State Water Project (SWP) imports via the Mojave Water Agency (MWA) to recharge the Warren Valley Basin.[67] Groundwater is recharged by natural storm water flows, irrigation and wastewater return flow, and State

67 Town of Yucca Valley, *General Plan Environmental Impact Report*, Part 5, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/5603/637399893763570000, accessed October 14, 2025.

Water Project imports to recharge the Warren Valley Basin via water deliveries from the Morongo Basin Pipeline to percolation ponds in Yucca Valley.[68]

The HDWD has more than 10,000 connections and serves the Town of Yucca Valley and portions of unincorporated San Bernardino County with water and wastewater services. The District's delivery system infrastructure includes 13 active wells with a 7,000 gallons per minute total capacity, 16 storage tanks which can hold 12.66 million gallons of water, 10 booster stations, 16 pressure reducing valves, and 296 miles of pipeline.[69] The approximately 57 square mile service area is comprised of residential, commercial, and industrial land uses; however, the service area is predominantly residential (94 percent of the total connections). The HDWD is responsible for ensuring that water demand within the Town is met and that State and federal water quality standards are achieved.

According to the HDWD's 2020 Urban Water Management Plan (UWMP), future water use for the year 2020 would be 2,947 acre feet (af), and by 2045, demand would grow to 3,350 af. Under single-dry and multi-dry years, the HDWD is confident that it is capable of meeting the water demands in its service area in normal, single-dry, and five consecutive dry years from 2020 through 2045.[70] According to **Appendix A, Air Quality Technical Report**, the Project would result in an increase in the demand for potable water at a rate of approximately 540,256 gallons per year, or 1.66 AF per year. This would represent less than one percent of the HDWD's anticipated supply of potable water in 2045. As such, the implementation of the Project is not expected to measurably reduce the HDWD's supply projections, and as such, no new or expanded water treatment facilities would be required. The HDWD would have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry, and multiple dry years. Therefore, with respect to water treatment facilities, impacts would be less than significant. No mitigation measures are required.

Wastewater

Historically, nearly all land uses in Yucca Valley have relied on individual septic systems to treat wastewater, with wastewater generation being assumed to be 80 gallons per person per day, or about 1.7 million gallons per day (mgd) based on a population of 21,282.[71] However, septic systems are being

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68 Hi Desert Water District, *Hi-Desert Water District 2020 Urban Water Management Plan*, June 30, 2021. Available online at: https://www.hdwd.com/DocumentCenter/View/807/Hi-Desert-WD-2020-UWMP-Final, accessed November 12, 2025.

69 *Ibid.*

70 *Ibid.*

71 Town of Yucca Valley, *General Plan Environmental Impact Report, Part 5*, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/5603/637399893763570000, accessed October 14, 2025.

eliminated in order to maintain the quality of the groundwater basins. On November 1, 2011, the Colorado River Basin Regional Water Quality Control Board amended its basin plan to prohibit discharge from septic systems in the Town of Yucca Valley.[72] The elimination of the septic systems will be implemented in three phases, with areas of the Town prohibited from discharging beginning in 2016 (Phase 1), 2019 (Phase 2), and 2022 (Phase 3). At Phase 1, the anticipated wastewater treatment system capacity would be 1.5 to 2.0 mgd, at Phase 2 the capacity would be 3 mgd, and at Phase 3 the capacity would be 4 mgd, with a capacity of 6 mgd at full buildout, which has yet to be determined.[73] Approximately 77 miles of sewers are planned for Phase 1 of the water reclamation system, consisting of approximately 74.7 miles of gravity sewers and 2.3 miles of force mains, that is, pressurized sewers conveying wastewater from a pump station to another gravity sewer. In 2019, the HDWD completed the construction of a Wastewater Reclamation Facility (WRF) and wastewater collection system to service the Town and the unincorporated area of San Bernardino County. At the time of preparing this analysis, based on the most recent Water Reclamation Facility Annual Report from 2021, the plant operated 24/7 in 2021 at an average dry weather (ADWF) flow of 0.441 mgd in 2021.[74] 1,290 connections were installed during 2021 for a total of 3,197, which represents approximately 70 percent of the total connections in Phase 1.[75] The WRF currently has the ability to treat flows from the collection system equal to an average daily flow of 1 mgd.[76]

The Project proposes to connect to an existing sewer manhole on the Site as well as to install a 6" sanitary sewer lateral to be able to connect to the Town's sewer system. As stated above, the Project is estimated to use 1,480 gpd of water, 0.1 percent of the available daily treatment capacity at the WRF. Implementation of the proposed Project would not require, nor would it result in, the construction of new wastewater treatment or collection facilities or the expansion of existing facilities. Additionally, the Project would not result in a generation of wastewater that would exceed the WRF's existing capacity, nor would the Project impact the WRF's ability to meet existing commitments. As such, impacts would be less than significant.

Stormwater

According to the Town's General Plan EIR, development in the Town has occurred in a piecemeal fashion over the years, much of it before the Town was incorporated, and without the benefit of a planned drainage

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72 *Ibid.*

73 Hi Desert Water District, *Hi-Desert Water District 2020 Urban Water Management Plan*, June 30, 2021. Available online at: https://www.hdwd.com/DocumentCenter/View/807/Hi-Desert-WD-2020-UWMP-Final, accessed November 12, 2025.

74 Hi Desert Water District, *Water Reclamation Facility 2021 Annual Report*, January 24, 2022. Available online at: https://www.hdwd.com/DocumentCenter/View/823/2021-WRF-Annual-Monitoring-Report, accessed November 12, 2025.

75 *Ibid.*

76 *Ibid.*

network.[77] Flood control facilities in the Town are limited; some improvements have been made under the direction of the San Bernardino County Flood District (SBFCD), and others have been constructed by developers as a condition of approval. The Project Site is vacant and undeveloped; given the existing state of the Project Site, implementation of the Project would introduce new, impervious surfaces. Presently, water collected on the site either percolates into the ground or leaves the Project Site as runoff into nearby storm drains present along Balsa Avenue. While the proposed Project would introduce new impervious surfaces, the Project Site is served by existing storm drainage infrastructure, and the Project includes a stormwater retention pond to prevent flooding on site. Additionally, the Project Applicant would be subject to the Town's development impact fee for construction and maintenance of general facilities, park facilities, storm drain facilities, and street and traffic facilities, authorized by YVMC Chapter 3.40.[78] Further, the Project proposes to add 10,350 square feet of landscaping and retain 2,808 square feet of existing landscaping, ensuring more pervious surfaces are present on the Project Site. Impacts to stormwater drainage facilities would be less than significant.

Electrical, Natural Gas, and Telecommunication Services

Electrical power for the Project Site will be supplied by Southern California Edison (SCE), and natural gas will be supplied by SoCal Gas Company. As previously mentioned in **Section 3.3.6, Energy,** in 2025, the total electrical generation in California was 216,181 gigawatt-hours (GWh).[79] Statewide electric consumption in 2024 was estimated by the California Energy Commission (CEC) to be 282,013 GWh, with San Bernardino County responsible for consuming approximately 16,206 GWh.[80] Statewide natural gas consumption in 2024 was estimated by the CEC to be 11,083 million therms (MMThm), with San Bernardino County responsible for consuming approximately 547 MMThm.[81] The Project would connect to existing electrical and natural gas infrastructure that serves the Project Area, which includes connecting to an

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77 Town of Yucca Valley, *General Plan Environmental Impact Report*, Part 5, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/5603/637399893763570000, accessed October 14, 2025.

78 Town of Yucca Valley, *YVMC: Chapter 3.40: Development Impact Fees*. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-1065, accessed November 13, 2025.

79 California Energy Commission, "2024 Total System Electric Generation." Available online at: https://www.energy.ca.gov/data-reports/energy-almanac/california-electricity-data/2022-total-system-electric-generation, accessed October 1, 2025.

80 California Energy Commission, *Energy Consumption by County*, 2024. Available online at: https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.energy.ca.gov%2Ffilebrowser%2Fdownload%2F8144%3Ffid%3D8144&wdOrigin=BROWSELINK, accessed October 1, 2025.

81 California Energy Commission, *Energy Consumption by County*, 2022. Available online at: https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.energy.ca.gov%2Ffilebrowser%2Fdownload%2F8146%3Ffid%3D8146&wdOrigin=BROWSELINK, accessed October 1, 2025.

existing electrical transformer located near the Project Site. The Project would be built to be energy efficient and be in conformance with the latest version of California's Building Energy Efficiency Standards and Green Building Standards Code.

Cable, internet, and telephone services are provided to residents by third-party purveyors, such as Frontier Communications and Spectrum.[82] Telecommunication facilities serve the Project Site and are able to provide the surrounding neighborhood and commercial uses with dependable service. Telecommunications facilities would be sufficient to serve the Project. As such, impacts related to dry utility services and facilities would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. Would the project generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	☐	☐	☒	☐

Less than Significant Impact. Solid waste services for the Town are provided by Burrtec Waste Industries. The closest landfill that would serve the Project Site would be the Landers Sanitary Landfill, located approximately 7 miles north of the Project Site. The Landers Landfill has a maximum permitted throughput of 1,200 tons per day.[83] As of 2023, the remaining capacity of the landfill is 11,063,811 cubic yards; the maximum capacity of the facility is 13,983,500 cubic yards.[84]

The Project will develop a Dutch Bros coffee shop with a drive-through. Construction activities associated with the Project will generate solid waste that will be temporary and will cease upon completion of the Project. The handling of all debris and waste generated during construction of the Project will be subject to the State's (AB 939) and Town's (Chapter 6.02, Solid Waste Collection and Disposal, of the YVMC) requirements for salvaging, recycling, and reuse of materials from construction activity on the Project Site. According to **Appendix A**, the Project's operational activities are expected to generate approximately 12

82 Town of Yucca Valley, Town of Yucca Valley: Services – Utilities. Available online at: https://www.yucca-valley.org/services/utilities, accessed November 13, 2025.

83 CalRecycle, "SWIS Facility/Site Activity Details: Landers Sanitary Landfill." Available online at: https://www2.calrecycle.ca.gov/SolidWaste/SiteActivity/Details/1882?siteID=2664, accessed November 13, 2025.

84 *Ibid.*

tons per year of solid waste, or approximately 66 pounds per day. The solid waste generated from Project operations will represent less than one percent of the maximum daily throughput of the remaining capacity of the Landers Sanitary Landfill. Therefore, solid waste impacts from construction and operation of the Project would be less than significant.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
e. Would the project comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	☐	☐	☒	☐

Less than Significant Impact. As stated above, the Project would not generate solid waste in excess of State or local standards, or in excess of the capacity of local infrastructure. Furthermore, the Project would be required to demonstrate compliance with the California Integrated Waste Management Act of 1989 (Assembly Bill [AB] 939), which requires all California cities to "reduce, recycle, and re-use solid waste generated in the State to the maximum extent feasible." AB 939 requires that at least 50 percent of waste produced be recycled, reduced, or composted. The Project would also comply with the most current CALGreen Building Code, which includes design and construction measures that help reduce construction-related waste through material conservation and other construction-related efficiency measures. Thus, less than significant impacts would occur.

Mitigation Measures: No mitigation measures are required.

3.3.20 Wildfire

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. Would the project substantially impair an adopted emergency response plan or emergency evacuation plan?	☐	☐	☐	☒

No Impact. According to CAL Fire, the Project Site is not located in a Fire Hazard Severity Zone.[85] As previously discussed, development plans would be reviewed by the San Bernardino County Sheriff's Department and the San Bernardino County Fire Protection District prior to construction to ensure that alternative route planning to facilitate the passage of people and vehicles through/around any temporary required road closures occurs and is implemented, if needed. The Project does not anticipate the required closure of any public or private streets and would not impede emergency vehicle access to the Project Site or vicinity. Construction activities would be limited to the Project Site, and the Project would use the existing on-site driveways as access points for emergency vehicles. Included in such plans would be provisions for any needed signage for detours, training of flagmen, and provision for staging areas for emergency vehicles responding to a call, as required by the Town's police and fire agencies. Thus, emergency access in and out of construction sites, including evacuation routes for construction workers, would remain, and no impact would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Due to slope, prevailing winds, and other factors, would the project exacerbate wildfire risks and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	☐	☐	☐	☒

No Impact. Wildfires have the potential to occur not only in fire-prone undeveloped areas, but also in developed areas where existing transmission lines, lightning strikes, lawn equipment operated over dry

85 CAL FIRE, *Fire Hazard Severity Zone Viewer*. Available online at: https://osfm.fire.ca.gov/what-we-do/community-wildfire-preparedness-and-mitigation/fire-hazard-severity-zones, accessed October 3, 2025.

grass, fireworks, and even arson may ignite a wildfire. Wildfires pose a significant public health risk due to their air quality impacts, particularly with regard to smoke and particulate matter exposure. This risk persists even after a wildfire is extinguished because particulate matter from fire ash can be picked up by winds.

As stated above, the Project Site is not located in a Fire Hazard Severity Zone. The Project is vacant and undeveloped with minimal vegetation that would not exacerbate wildfire risks or expose the public to uncontrolled spread. Thus, no impact would occur

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. Would the project require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	☐	☐	☐	☒

No Impact. The Project Site is surrounded by existing infrastructure and would not require the installation or maintenance of roads, fuel breaks, emergency water or other sources that could exacerbate fire risk. As such, no impacts would occur.

Mitigation Measures: No mitigation measures are required.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
d. Would the project expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	☐	☐	☐	☒

No Impact. As stated above, the Project would not be located in or near a Fire Hazard Severity Zone. Additionally, the Project Site is located on relatively flat terrain, and would not be subject to landslides.

Thus, wildfire impacts involving downslope, downstream flooding, or landslides would not occur, and there would be no impact.

Mitigation Measures: No mitigation measures are required.

21. Mandatory Findings of Significance

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
a. **Does the project have the potential to substantially degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory?**	☐	☒	☐	☐

Less Than Significant with Mitigation Incorporated. As discussed in **Section 3.3.4, Biological Resources**, the Project could potentially disturb and modify critical habitats that may be present on-site for special-status bird species. As such, implementation of **Mitigation Measure BIO-1** and **BIO-2** would ensure that the impacts to the critical habitat of special-status bird species and western Joshua Trees would be reduced to less than significant.

As discussed in **Section 3.3.5, Cultural Resources**, and **Section 3.3.18, Tribal Cultural Resources**, while the results of the NAHC Sacred Land File search were negative, tribes were contacted to provide further input on the Project. The Agua Caliente Tribe and the YSMN Tribe responded with varying interest in consulting on the Project. The YSMN Tribe provided the Town with Tribal Cultural mitigation measures (**MM TCR-1 and MM TCR-2**) to protect previously undiscovered tribal cultural resources. Standard archaeological mitigation measures (**MM CUL-1 through MM CUL-3**) are also incorporated in accordance with CEQA requirements. As analyzed in **Section 3.3.7, Geology and Soils**, ground-disturbing activities associated with Project construction may potentially uncover any cultural, archaeological, or paleontological resources. As such, implementation of **Mitigation Measure GEO-1** would reduce these potential impacts to less than significant levels.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
b. Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects)?	☐	☒	☐	☐

Less Than Significant with Mitigation Incorporated. The Project generally would not contribute to potentially cumulatively considerable impacts. As indicated in the above analysis, with implementation of the required mitigation measures, the Project would not result in any unmitigated significant adverse impacts and/or cumulatively considerable impacts. Specifically, **Mitigation Measures BIO-1, BIO-2, CUL-1, CUL-2, CUL-3, GEO-1,** and **TCR-1, TCR-2,** would reduce potentially significant impacts to less than significant levels. The Project does not include any unmitigated cumulatively considerable impacts when considered in connection with the effects of past, present, and probable future projects. No further analysis is necessary.

	Potentially Significant Impact	Less Than Significant with Mitigation Incorporated	Less than Significant Impact	No Impact
c. Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly?	☐	☒	☐	☐

Less than Significant Impact with Mitigation Incorporated. As indicated in the above analysis, with implementation of the required mitigation measures, the Project would not result in any unmitigated significant adverse impacts. Thus, the Project would not have the potential to result in substantial adverse effects on human beings either directly or indirectly, with mitigation measures incorporated.

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APPENDIX A

Air Quality Technical Report

Yucca Valley Dutch Bros Project

Air Quality Technical Report

November 2025

Prepared for:

Town of Yucca Valley
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1.0 INTRODUCTION

This Air Quality Technical Report evaluates air quality impacts associated with the proposed Dutch Bros coffee shop location at 58121 Twentynine Palms Highway in the Town of Yucca Valley (Town) (Project). This report has been prepared by Impact Sciences, Inc., to support the Project's environmental documentation being prepared pursuant to the California Environmental Quality Act (CEQA). This analysis considers both the temporary air quality impacts from Project construction and long-term impacts associated with operation of the Project.

1.1 PROJECT LOCATION

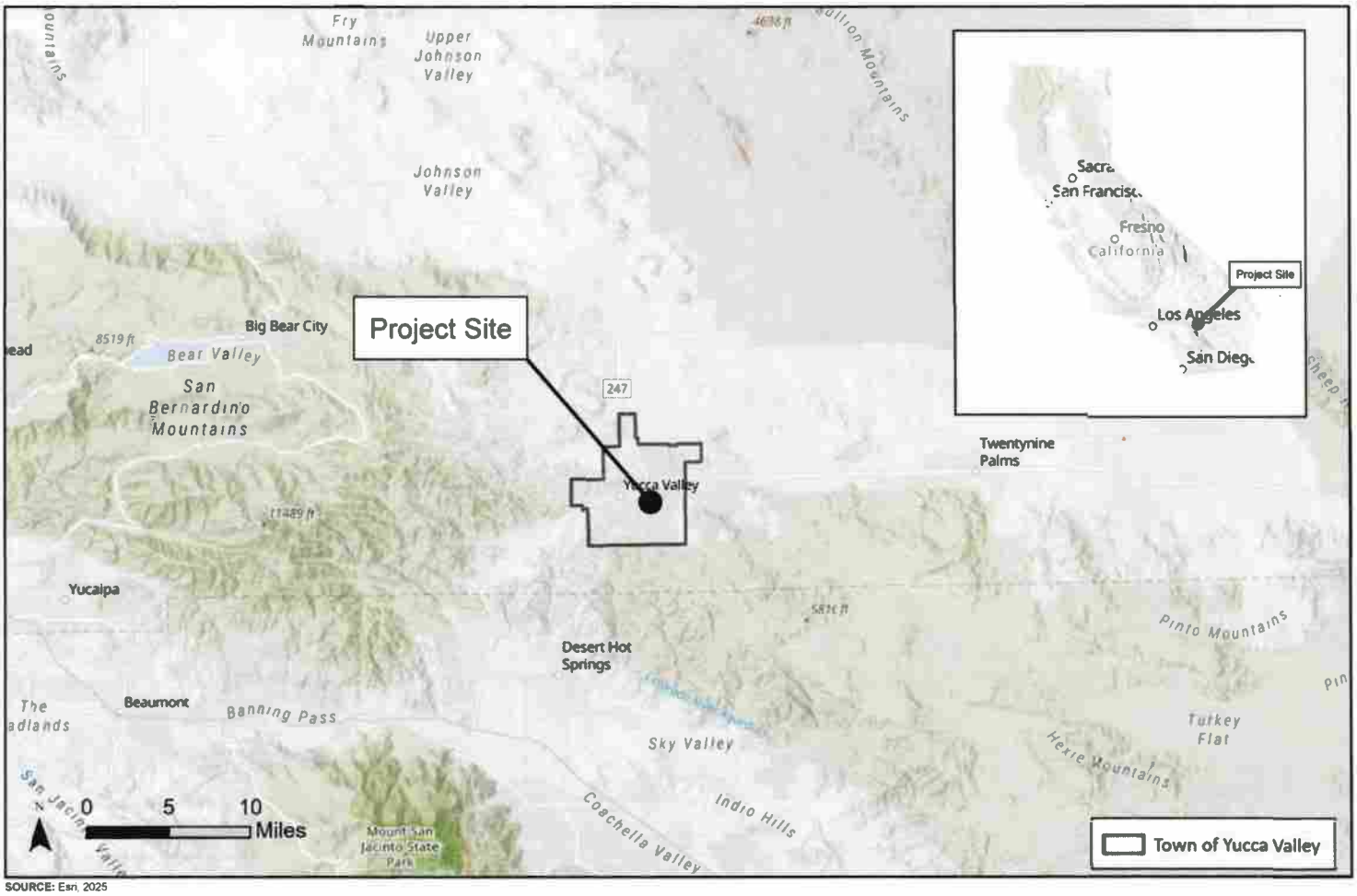
The Project Site is located at 58121 Twentynine Palms Highway (State Route 62) in the Town of Yucca Valley, San Bernardino County, California (Assessor's Parcel Number [APN] 0601-416-05). The Project Site encompasses approximately 1.01 gross acres (44,190 square feet) and is situated along the south side of Twentynine Palms Highway, the primary east-west transportation corridor through the Morongo Basin. **Figure 1, Regional Vicinity**, illustrates the site's location in a regional context.

The Project Site is currently vacant and undeveloped, except for an existing paved drive aisle at the northern portion of the site that connects two adjacent commercial developments. The topography of the site is generally flat, with no significant slopes, drainage channels, or geologic features. The site supports native desert vegetation, including Western Joshua Trees (*Yucca brevifolia*), which are protected under the California Endangered Species Act. Portions of the site also show evidence of disturbance from illegal off-road vehicle use. **Figure 2, Aerial Photograph of the Project Site**, shows an aerial photograph of the existing Project Site and surroundings.

1.2 PROJECT DESCRIPTION

Project Overview

The Project proposes the construction and operation of an approximately 1,025-square-foot Dutch Bros Coffee shop with a dual-lane drive-through facility and associated site improvements. The drive-through is designed to accommodate 23 queued vehicles. In addition to on-site improvements, the Project would contribute in-lieu fees toward off-site roadway improvements consistent with the Town's circulation plans, specifically, the widening of Twentynine Palms Highway to an ultimate half-width of 67 feet along the Project frontage. The future widening of Twentynine Palms Highway would be undertaken at a later date by the Town of Yucca Valley Public Works/Engineering Department and the San Bernardino County Transportation Authority. **Figure 3, Conceptual Site Plan**, illustrates the Project's proposed site plan.



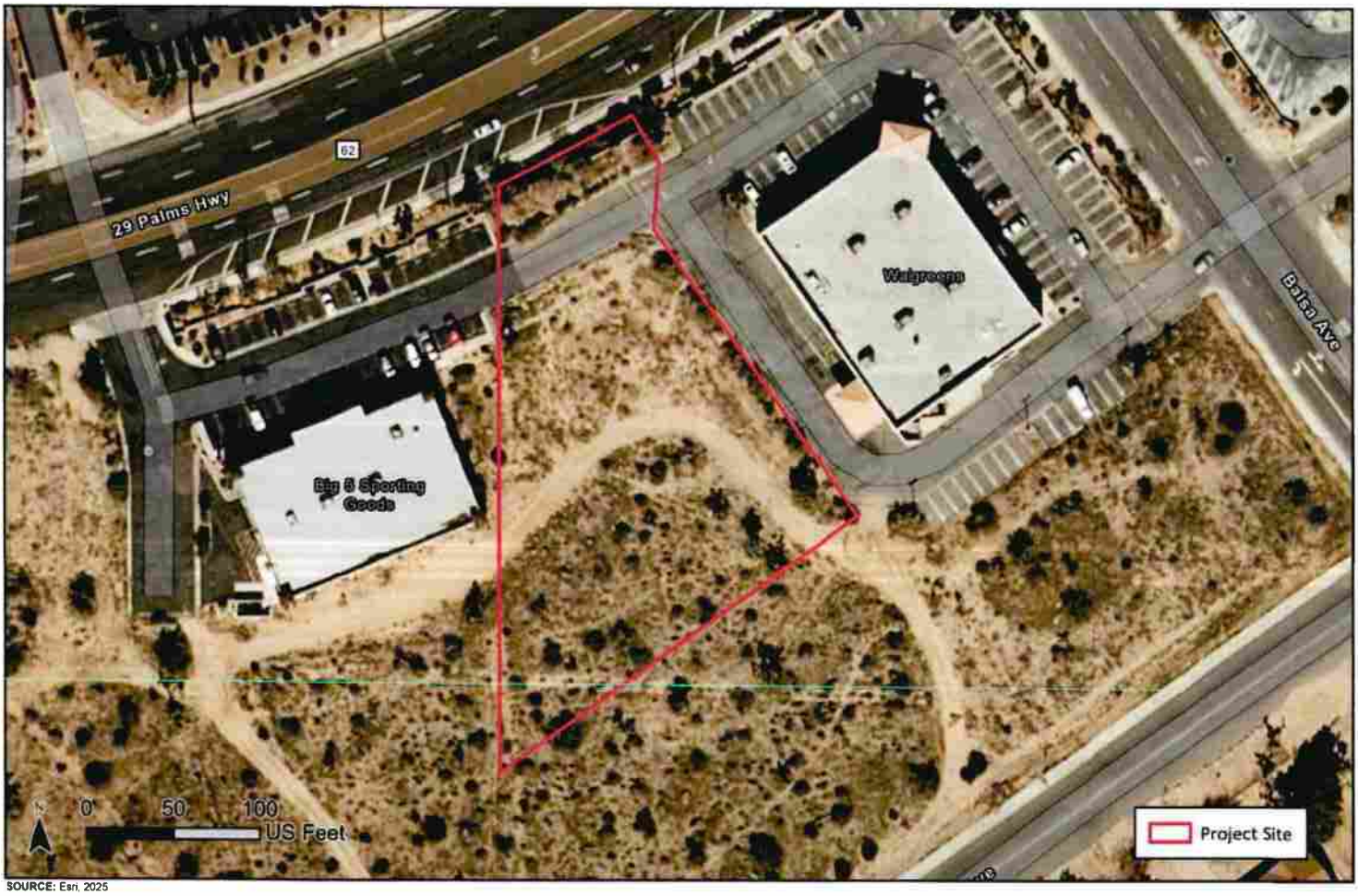
SOURCE: Esri, 2025

FIGURE 1

IMPACT SCIENCES

Regional Vicinity

1590.003•10/25



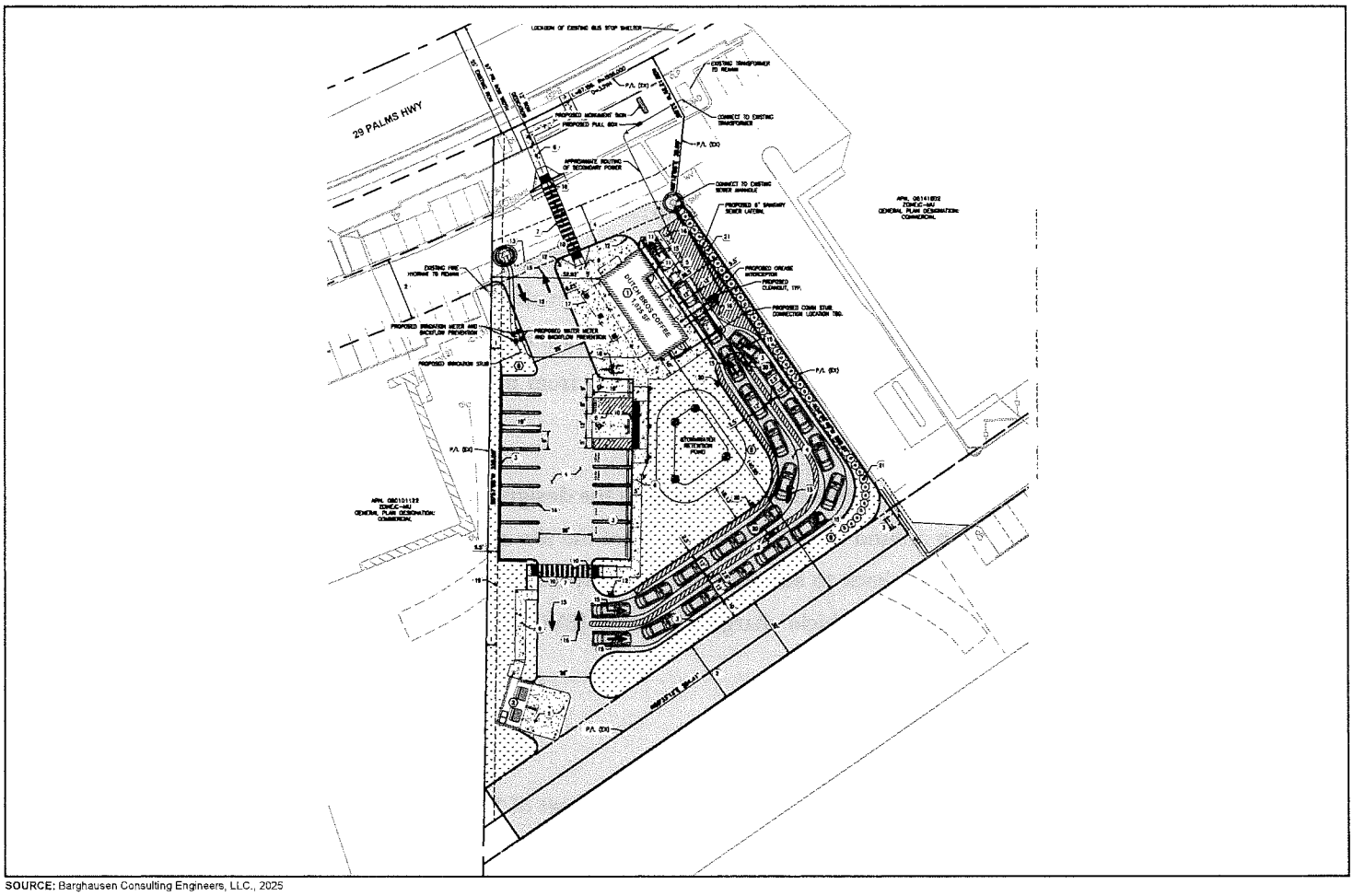
SOURCE: Esri, 2025

FIGURE 2

IMPACT SCIENCES

Aerial Photograph of the Project Site

1590.003-10/25



SOURCE: Barghausen Consulting Engineers, LLC., 2025

FIGURE 3

IMPACT SCIENCES

Conceptual Site Plan

1590.003•10/25

Operation

Operation of the Project would entail a drive-through-focused quick-service coffee shop with limited walk-up service and no indoor seating. Land uses, such as the Project, are conditionally permitted in the C-MU zone. The Project is anticipated to operate daily between the hours of 5:00 AM and 11:00 PM. The Project is expected to employ approximately 24 to 32 people, with 6 to 8 employees working per shift. Supply deliveries would occur via small box trucks during off-peak hours.

Access and Circulation

Site access would be provided from two existing driveways that currently serve adjacent commercial developments. One driveway is located along Twentynine Palms Highway and provides access to the Big 5 Sporting Goods store to the west, while the second driveway is located along Balsa Avenue in proximity to the Walgreens store to the east. Project customers and employees would enter the Project Site from the existing internal drive aisle that connects the two commercial developments and integrate circulation with the surrounding uses. In addition, the Project would include a new drive aisle along the southern perimeter of the Project Site, providing direct access to the Project Site from the existing surface parking lot of the Walgreens to the east.

Internal circulation would allow vehicles to either park in the designated parking area or enter the drive-through lanes, which wrap around the southern portion of the site and direct vehicles northward to exit into adjacent parking lots and back to surrounding roadways. The Project would provide a total of 18 parking spaces (3 future electric vehicle charging stations [EVCS], 1 accessible EVCS, 1 accessible, 13 standard).

Landscaping

The Project would incorporate approximately 10,350 square feet of landscaping and would retain 2,808 square feet of existing landscaping near Twentynine Palms Highway. The landscape design emphasizes drought-tolerant, desert-appropriate plantings consistent with the Town's Water Efficient Landscape Ordinance and the Water Use Classification of Landscape Species (WUCOLS) guidelines.

Proposed trees include Swan Hill fruitless olive and Mexican palo verde, which can reach a mature size of approximately 25 feet in height and width. Shrub and accent plantings would include desert agave, purple threeawn, grey desert spoon, California buckwheat, Texas sage, deer grass, and jojoba. Texas sage would be installed at a height of approximately 36 inches at the time of planting to provide immediate screening and visual structure along the eastern property line, specifically to screen car headlights, and shrubs would be used to screen the trash enclosure.

Groundcover treatments would consist of approximately 1,498 square feet of decorative local cobble placed over landscape fabric. This treatment would provide a low-maintenance, water-efficient groundcover for a desert climate.

1.3 PROJECT CONSTRUCTION SEQUENCING

For the purpose of evaluating potential environmental impacts, this report assumes that construction of the Project would begin in 2026 and extend over a period of approximately five (5) months following issuance of the Incidental Take Permit for the removal of the Western Joshua Trees, with full operation anticipated in 2026. This schedule is considered conservative and is intended to capture the maximum potential daily impacts associated with construction activities.

Construction would occur in three primary stages: (1) debris removal, (2) grading and foundation preparation, and (3) building construction. All equipment and construction staging would occur within the boundaries of the Project Site. The grading plan for the Project anticipates approximately 1,000 cubic yards of cut and 200 cubic yards of fill, resulting in a net export of approximately 800 cubic yards of soil.

The debris removal stage would involve clearing the site and preparing it for grading, which would then be immediately followed by grading and foundation preparation. Debris removal and grading/foundation stages are expected to last approximately five (5) weeks. This stage would establish building pads, prepare utility connections, and level the site. The building construction stage would then proceed over approximately four (4) months and would include construction of the coffee shop structure, installation of utilities, application of architectural coatings, and paving of the Project Site. Architectural coating and paving activities are expected to occur during the final month of the construction stage.

Consistent with the assumptions included within the California Emissions Estimator Model (CalEEMod), the following maximum daily equipment by stage will be assumed.

- Demolition/debris removal: 1 concrete industrial saw, 1 rubber-tired dozer, 2 tractors/loader/backhoes
- Grading: 1 grader, 1 rubber-tired dozer, 1 tractor/loader/backhoe
- Building Construction: 1 crane, 2 forklifts, 2 tractors/loaders/backhoes
- Paving: 4 cement and mortar mixers, 1 paver, 1 roller, 1 tractor/loader/backhoe
- Architectural Coating: 1 air compressor

2.0 ENVIRONMENTAL SETTING

2.1 AIR QUALITY SETTING

Mojave Desert Air Basin

The Project Site is located within the San Bernardino County portion of the Mojave Desert Air Basin ("MDAB" or "Basin). The Basin is composed of a 21,000-square-mile area that includes the eastern portion of Kern County, the eastern portion of Riverside County, the northeastern side of Los Angeles County, and almost all of San Bernardino County. The regional climate within the Basin is characterized by hot, dry summers, mild winters, very infrequent rainfalls, moderate winds, and low humidity. The MDAB is home to many mountain ranges containing long, broad valleys. The Sierra Nevada Mountains provide a natural barrier to the north, inhibiting cold air masses originating from Canada and Alaska from passing through the MDAB. Prevailing winds in the MDAB come from the west and the south, caused by air masses pushed onshore in Southern California by differential heating and channeled inland through mountain passes. The San Gabriel and San Bernardino mountain ranges block the majority of cool, moist air from the south; this results in infrequent rainfall and air pollutants settling in over the region. Local air quality in the Basin is affected by the transport of pollutants from other air basins. The Basin is downwind of the South Coast Air Basin and, though to a lesser extent, is downwind from the San Joaquin Valley Air Basin. Prevailing winds transport ozone and ozone precursors from both regions into and through the MDAB during the summer ozone season.

Air Pollutants of Concern

Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards for outdoor concentrations. The federal and state standards have been set at levels above which concentrations could be harmful to human health and welfare. These standards are designed to protect the most sensitive persons, such as children, pregnant women, and the elderly, from illness or discomfort. Criteria air pollutants include ozone (O_3), nitrogen dioxide (NO_2), carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter 2.5 microns or less in diameter (PM2.5), particulate matter ten microns or less in diameter (PM10), and lead (Pb). Note that reactive organic gases (ROGs), which are also known as reactive organic compounds (ROCs) or volatile organic compounds (VOCs), and nitrogen oxides (NOx) are not classified as criteria pollutants. However, ROGs and NOx are widely emitted from land development projects and participate in photochemical reactions in the atmosphere to form O_3; therefore, NOx and ROGs are relevant to the Proposed Project and are of concern in the Basin. As such, they are listed below along with the criteria pollutants. Sources and health effects

commonly associated with criteria pollutants are summarized in **Table 1, Criteria Pollutants Summary of Common Sources and Effects.**

Table 1
Criteria Pollutants Summary of Common Sources and Effects

Pollutant	Major Man-Made Sources	Human Health & Welfare Effects
Carbon Monoxide (CO)	An odorless, colorless gas formed when carbon in fuels is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO_2)	A reddish-brown gas formed during fuel combustion for motor vehicles and industrial sources. Sources include motor vehicles, electric utilities, and other sources that burn fuel.	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Contributes to global warming and nutrient overloading, which deteriorates water quality. Causes brown discoloration of the atmosphere.
Ozone (O_3)	Formed by a chemical reaction between volatile organic compounds (VOC) and nitrous oxides (NOx) in the presence of sunlight. VOCs are also commonly referred to as reactive organic gases (ROGs). Common sources of these precursor pollutants include motor vehicle exhaust, industrial emissions, gasoline storage and transport, solvents, paints, and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing, and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield. Damages rubber, some textiles, and dyes.
Particulate Matter (PM10 & PM2.5)	Produced by power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles, and others.	Increased respiratory symptoms, such as irritation of the airways, coughing or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
Sulfur Dioxide (SO_2)	A colorless, nonflammable gas formed when fuel containing sulfur is burned, when gasoline is extracted from ore. Examples are petroleum refineries, cement manufacturing, metal processing facilities, locomotives, and ships.	Respiratory irritant; aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid, which can damage marble, iron, and steel. Damages crops and natural vegetation. Impairs visibility. Precursor to acid rain.

Source: California Air Resources Board, Common Air Pollutants, available online at: https://ww2.arb.ca.gov/resources/common-air-pollutants, accessed September 12, 2025.

2.2 AMBIENT AIR QUALITY

Criteria Air Pollutant Monitoring Data

Overseen by the California Air Resources Board (CARB), the California Ambient Air Monitoring Network consists of more than 250 monitoring stations operated by Federal, State, and local agencies.[1] Ambient air quality in Yucca Valley can be inferred from ambient air quality measurements conducted at nearby air quality monitoring stations. Existing levels of ambient air quality and historical trends and projections are documented by measurements made by the Mojave Desert Air Quality Management District (MDAQMD), the air pollution regulatory agency in the Basin. The MDAQMD maintains air quality monitoring stations that process ambient air quality measurements throughout the Basin. While the MDAQMD provides multiple air monitoring stations throughout the Mojave Desert Air Basin, the closest monitoring stations representative of air quality in Yucca Valley are monitored by the South Coast Air Quality Management District.

The purpose of the monitoring station is to measure ambient concentrations of pollutants and determine whether ambient air quality meets the National Ambient Air Quality Standards (NAAQS) and the California Ambient Air Quality Standards (CAAQS). Ozone and particulate matter (PM10 and PM2.5) are pollutants of particular concern in the Basin. The closest active monitoring station to the Project Site and most representative of air quality is CARB Station No. 33137, located at 590 E. Racquet Club Avenue in Palm Springs. However, this station only monitors O_3 and PM2.5. The closest active monitoring station to the Project Site monitoring PM10 is CARB Station No. 33164, located at 200 S. Hathaway Street in Banning. Ambient emission concentrations vary due to localized variations in emission sources and climate and should be considered "generally" representative of ambient concentrations near the Project Site. See **Table 2, Air Monitoring Station Ambient Pollutant Concentrations.**

1 California Air Resources Board, Ambient Air Monitoring – Regulatory. Available online at: https://ww2.arb.ca.gov/our-work/programs/ambient-air-monitoring-regulatory, accessed November 14, 2025.

Table 2
Air Monitoring Station Ambient Pollutant Concentrations

Pollutant	Standards[1]	Year		
		2022	2023	2024
Ozone (O_3)[a]				
Maximum 1-hour concentration monitored (ppm)		0.106	0.116	0.105
Maximum 8-hour concentration monitored (ppm)		0.090	0.093	0.092
Number of days exceeding state 1-hour standard	0.09 ppm	7	8	8
Number of days exceeding federal/state 8-hour standard	0.070 ppm	39 / 43	38 / 39	0
Particulate Matter (PM2.5)[a]				
Maximum 24-hour concentration monitored ($\mu g/m^3$)		31.2	26.2	36.0
Annual average concentration monitored ($\mu g/m^3$)		6.3	N/A	6.7
Number of days exceeding federal standards	35 $\mu g/m^3$	0	0	3
Particulate Matter (PM10)[b]				
Maximum 24-hour concentration monitored ($\mu g/m^3$)		48.3	94.5	43.8
Annual average concentration monitored ($\mu g/m^3$)		N/A	20.6	19.5
Number of days exceeding federal/state standards	150 $\mu g/m^3$ / 50 $\mu g/m^3$	N/A / N/A	0 / 12	0 / 0

Source: CARB. Select-8 Summary. Available at: https://www.arb.ca.gov/adam/select8/sc8start.php, accessed September 12, 2025.
N/A – Not Available.
[a] *CARB Station No. 33137*
[b] *CARB Station No. 33164*
[1] *Parts by volume per million of air (ppm), micrograms per cubic meter of air ($\mu g/m^3$), or annual arithmetic mean (aam).*
[2] *The 8-hour federal O_3 standard was revised from 0.075 ppm to 0.070 ppm in 2015. The statistics shown are based on the 2015 standard of 0.070 ppm.*

The attainment status for the Basin region is included in **Table 3, Attainment Status of Criteria Pollutants in the Mojave Desert Air Basin**. Areas that meet ambient air quality standards are classified as attainment areas, while areas that do not meet these standards are classified as nonattainment areas. The Basin region is designated as a partial nonattainment area for federal ozone and PM2.5 standards and is designated as nonattainment for state ozone, PM10, and PM2.5 standards.

Table 3
Attainment Status of Criteria Pollutants in the Mojave Desert Air Basin

Pollutant	State	Federal
Ozone (O_3)	Non-Attainment	Non-Attainment*
Particulate Matter (PM10)	Non-Attainment	Non-Attainment**
Particulate Matter (PM2.5)	Non-Attainment	Unclassified/Attainment
Carbon Monoxide (CO)	Attainment	Unclassified/Attainment
Nitrogen Dioxide (NO_2)	Attainment	Unclassified/Attainment
Sulfur Dioxide (SO_2)	Attainment	Unclassified/Attainment
Lead	Attainment	Unclassified/Attainment

** Southwest corner of desert portion of San Berardino County only*
*** San Berardino County portion only*
Source: MDAQMD. MDAQMD Attainment Status, available online at https://www.mdaqmd.ca.gov/home/showpublisheddocument/1267/636337468837000000, accessed September 12, 2025.

Toxic Air Contaminants

In addition to the criteria pollutants discussed above, toxic air contaminants (TACs) are another group of pollutants of concern. TACs are considered either carcinogenic or noncarcinogenic based on the nature of the health effects associated with exposure to the pollutant. For regulatory purposes, carcinogenic TACs are assumed to have no safe threshold below which health impacts would not occur, and cancer risk is expressed as excess cancer cases per one million exposed individuals. Noncarcinogenic TACs differ in that there is generally assumed to be a safe level of exposure below which no negative health impact is believed to occur. These levels are determined on a pollutant-by-pollutant basis.

There are many different types of TACs, with varying degrees of toxicity. Sources of TACs include industrial processes, such as petroleum refining and chrome-plating operations; commercial operations, such as gasoline stations and dry cleaners; and motor vehicle exhaust. Public exposure to TACs can result from emissions from normal operations, as well as from accidental releases of hazardous materials during upset conditions. The health effects associated with TACs are quite diverse and generally are assessed locally, rather than regionally. TACs can cause long-term health effects such as cancer, birth defects, neurological damage, asthma, bronchitis, or genetic damage, or short-term acute affects such as eye watering, respiratory irritation (a cough), running nose, throat pain, and headaches.

To date, CARB has designated 244 compounds as TACs. Additionally, CARB has implemented control measures for a number of compounds that pose high risks and show potential for effective control. The majority of the estimated health risks from TACs can be attributed to a relatively few compounds.[2]

CARB identified diesel particulate matter (DPM) as a TAC. DPM differs from other TACs in that it is not a single substance but rather a complex mixture of hundreds of substances. Diesel exhaust is a complex mixture of particulates and gases produced when an engine burns diesel fuel. DPM is a concern because it causes lung cancer; many compounds found in diesel exhaust are carcinogenic. DPM includes the particle-phase constituents in diesel exhaust. The chemical composition and particle sizes of DPM vary between different engine types (heavy-duty, light-duty), engine operating conditions (idle, accelerate, decelerate), fuel formulations (high/low sulfur fuel), and the year of the engine. Some short-term (acute) effects of diesel exhaust include eye, nose, throat, and lung irritation, and diesel exhaust can cause coughs, headaches, light-headedness, and nausea. DPM poses the greatest health risk among the TACs. Almost all diesel exhaust particle mass is 10 microns or less in diameter. Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung.

Sensitive Receptors

Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved. Sensitive population groups include children, the elderly, the acutely ill, and the chronically ill, especially those with cardiovascular diseases.[3] According to the MDAQMD, residences, schools, daycare centers, playgrounds, and medical facilities are considered to be sensitive receptor land uses; the following project types proposed for sites within the specified distance to an existing or planned (zoned) sensitive receptor land use must be evaluated using significance threshold criteria number four per MDAQMD guidelines:[4]

- Any industrial project within 1,000 feet
- A distribution center (40 or more trucks per day) within 1,000 feet
- A major transportation project (50,000 or more vehicles per day) within 1,000 feet
- A dry cleaner using perchloroethylene within 500 feet

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2 California Air Resources Board, *CARB Identified Toxic Air Contaminants*. Available online at: https://ww2.arb.ca.gov/resources/documents/carb-identified-toxic-air-contaminants, accessed September 12, 2025.

3 California Air Resources Board, *Sensitive Receptor Assessment*. Available online at: https://ww2.arb.ca.gov/capp-resource-center/community-assessment/sensitive-receptor-assessment, accessed November 10, 2025.

4 MDAQMD, *CEQA and Federal Conformity Guidelines*, 2020. Available online at: https://www.mdaqmd.ca.gov/home/showpublisheddocument/8510/638126583450270000, accessed November 10, 2025.

- A gasoline dispensing facility within 300 feet

The Project does not propose any of these uses, and the closest air quality sensitive receptors are the single-family residences located approximately 228 feet to the south of the Project Site.

3.0 REGULATORY FRAMEWORK

3.1 FEDERAL

Clean Air Act

The Clean Air Act (CAA) of 1970 and the CAA Amendments of 1971 required the U.S. Environmental Protection Agency (U.S. EPA) to establish NAAQS, with states retaining the option to adopt more stringent standards or to include other specific pollutants. On April 2, 2007, the Supreme Court found that carbon dioxide is an air pollutant covered by the CAA; however, no NAAQS have been established for carbon dioxide.

These standards are the levels of air quality considered safe, with an adequate margin of safety, to protect public health and welfare. They are designed to protect those "sensitive receptors" most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise. Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed.

The U.S. EPA has classified air basins (or portions thereof) as being in attainment, nonattainment, or unclassified for each criteria air pollutant, based on whether or not the NAAQS have been achieved. If an area is designated unclassified, it is because inadequate air quality data were available as a basis for nonattainment or attainment designations. **Table 3** lists the federal attainment status of the Basin for the criteria pollutants.

National Emissions Standards for Hazardous Air Pollutants Program

Under federal law, 187 substances are currently listed as hazardous air pollutants (HAPs). Major sources of specific HAPs are subject to the requirements of the National Emissions Standards for Hazardous Air Pollutants (NESHAPS) program. The U.S. EPA is establishing regulatory schemes for specific source categories and requires implementation of the Maximum Achievable Control Technologies (MACT) for major sources of HAPs in each source category. State law has established the framework for California's TAC identification and control program, which is generally more stringent than the federal program and is aimed at HAPs that are a problem in California. The state has formally identified 244 substances as TACs and is adopting appropriate control measures for each. Once adopted at the state level, each air district will be required to adopt a measure that is equally or more stringent.

National Ambient Air Quality Standards

The federal CAA required the U.S. EPA to establish NAAQS. The NAAQS sets primary standards and secondary standards for specific air pollutants. Primary standards define limits for the intention of protecting public health, which include sensitive populations such as asthmatics, children, and the elderly. Secondary Standards define limits to protect public welfare to include protection against decreased visibility, damage to animals, crops, vegetation, and buildings. A summary of the federal ambient air quality standards is shown in **Table 4, National Ambient Air Quality Standards**.

Table 4
National Ambient Air Quality Standards

Pollutant		Primary/Secondary	Averaging Time	Level
Carbon monoxide		Primary	8 hours	9 ppm
			1 hour	35 ppm
Lead		Primary and secondary	Rolling 3-month average	0.15 µg/m³
Nitrogen dioxide		Primary	1 hour	100 ppb
		Primary and secondary	Annual	53 ppb
Ozone		Primary and secondary	8 hours	0.070 ppm
Particulate Matter	PM2.5	Primary	Annual	9 µg/m³
		Secondary	Annual	15 µg/m³
		Primary and secondary	24 hours	35 µg/m³
	PM10	Primary and secondary	24 hours	150 µg/m³
Sulfur dioxide		Primary	1 hour	75 ppb
		Secondary	Annual	10 ppb

Source: United States Environmental Protection Agency. December 2024. NAAQS Table. Available online at: https://www.epa.gov/criteria-air-pollutants/naaqs-table, accessed September 12, 2025.

3.2 STATE

California Clean Air Act of 1988

The California CAA of 1988 (CCAA) allows the state to adopt ambient air quality standards and other regulations provided that they are at least as stringent as federal standards. The California Air Resources Board (CARB), a part of the California Environmental Protection Agency (Cal EPA), is responsible for the coordination and administration of both federal and state air pollution control programs within California, including setting the CAAQS. The CCAA, amended in 1992, requires all air quality management districts (AQMDs) in the state to achieve and maintain the CAAQS. The CAAQS are generally stricter than national standards for the same pollutants and have also established state standards for sulfates, hydrogen sulfide,

vinyl chloride, and visibility-reducing particles, for which there are no national standards. CARB also conducts research, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB also has primary responsibility for the development of California's State Implementation Plan (SIP), for which it works closely with the federal government and the local air districts.

California Ambient Air Quality Standards

The federal CAA permits states to adopt additional or more protective air quality standards if needed. California has set standards for certain pollutants, such as particulate matter and ozone, which are more protective of public health than the respective federal standards. California has also set standards for some pollutants that are not addressed by federal standards. The state standards for ambient air quality are summarized in **Table 5, California Ambient Air Quality Standards**.

Table 5
California Ambient Air Quality Standards

Pollutant		Averaging Time	Level
Carbon monoxide		8 hours	9 ppm
		1 hour	20 ppm
Lead		30-day average	1.5 μg/m³
Nitrogen dioxide		1 hour	0.180 ppm
		Annual	0.030 ppm
Ozone		8 hours	0.070 ppm
		1 hour	0.09 ppm
Particulate matter	PM2.5	Annual	12 μg/m³
	PM10	24 hours	50 μg/m³
		Annual	20 μg/m³
Sulfur dioxide		1 hour	0.25 ppm
		24 hours	0.04 ppm
Sulfates		24 hours	25 μg/m³
Hydrogen sulfide		1 hour	0.03 ppm
Vinyl chloride		24 hours	0.01 ppm

Source: California Air Resources Board. July 2024. Table of Ambient Air Quality Standards. Available online at: https://ww2.arb.ca.gov/sites/default/files/2024-08/AAQS%20Table_ADA_FINAL_07222024.pdf, accessed September 12, 2025.

California State Implementation Plan

The federal CAA (and its subsequent amendments) requires each state to prepare an air quality control plan referred to as a State Implementation Plan (SIP). The SIP is a living document that is periodically

modified to reflect the latest emissions inventories, plans, and rules and regulations of air basins as reported by the agencies with jurisdiction over them. The CAA Amendments dictate that states containing areas violating the NAAQS revise their SIPs to include extra control measures to reduce air pollution. The SIP includes strategies and control measures to attain the NAAQS by deadlines established by the CAA. The EPA has the responsibility to review all SIPs to determine if they conform to the requirements of the CAA.

State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB then forwards SIP revisions to the EPA for approval and publication in the Federal Register. The MDAQMD is responsible for developing, updating, and implementing an air quality attainment plan for the San Bernardino and Riverside County portions of the MDAB, in coordination with the Southern California Association of Governments. The MDAQMD has adopted several plans to attain state and federal standards for ozone and particulate matter within the Western Mojave Desert Ozone Nonattainment Area. The relevant plans for the MDAQMD are listed below:

Ozone Attainment Plans[5]

- 2022 8-Hour Ozone SIP: Western Mojave Desert Nonattainment Area
- 2016 8-Hour Ozone SIP: Western Mojave Desert Nonattainment Area
- 2015 8-Hour Ozone Reasonably Available Control Technology (RACT) SIP Analysis: Mojave Desert Air Quality Management District
- 2014 Updates to the 1997 8-Hour Ozone Standards SIPs: Coachella Valley and Western Mojave Desert 8-Hour Ozone Nonattainment Areas
- 2008 Mojave Desert Air Quality Management District Federal 8-Hour Ozone Attainment Plan (Western Mojave Desert Non-Attainment Area)
- 2004 Mojave Desert Air Quality Management District Ozone Attainment Plan (State & Federal)
- 1994 – Post 1996 Attainment Demonstration and Reasonable Further Progress Plan

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5 California Air Resources Board, Western Mojave Desert Air Quality Plans. Available online at: https://ww2.arb.ca.gov/our-work/programs/california-state-implementation-plans/nonattainment-area-plans/western-mojave, accessed November 14, 2025.

Particulate Matter Plans

- 1995 Mojave Desert Planning Area PM10 Attainment Plan

California Air Toxics "Hot Spots" Information and Assessment Act (AB 2588)

The California Air Toxics Program is supplemented by the Air Toxics "Hot Spots" program, which became law (AB 2588, Statutes of 1987) in 1987. In 1992, the AB 2588 program was amended by Senate Bill 1731 to require facilities that pose a significant health risk to the community to perform a risk reduction audit and reduce their emissions through implementation of a risk management plan. Under this program, which is required under the Air Toxics "Hot Spots" Information and Assessment Act (Section 44363 of the California Health and Safety Code), facilities are required to report their air toxics emissions, assess health risks, and notify nearby residents and workers of significant risks when present.

Typically, land development projects generate diesel emissions from construction vehicles during the construction phase, as well as some diesel emissions from small trucks during the operational phase. Diesel exhaust is mainly composed of particulate matter and gases, which contain potential cancer-causing substances. Emissions from diesel engines currently include over 40 substances that are listed by EPA as hazardous air pollutants and by CARB as TACs. On August 27, 1998, CARB identified particulate matter in diesel exhaust as a TAC, based on data linking diesel particulate emissions to increased risks of lung cancer and respiratory disease.[6]

In March 2015, the OEHHA adopted "The Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments" in accordance with the Health and Safety Code, Section 44300. The Final Guidance Manual incorporates the scientific basis from three earlier developed Technical Support Documents to assess risk from exposure to facility emissions. The 2015 OEHHA Final Guidance has key changes, including greater age sensitivity, particularly for children, decreased exposure durations, and higher breathing rate profiles. Because cancer risk could be up to three times greater using this new guidance, it may result in greater mitigation requirements, more agency backlog, and increased difficulty in getting air permits. Regardless of the change in calculation methodology, actual emissions and cancer risk within the South Coast Air Basin have declined by more than 50 percent since 2005.

The CARB provides a computer program, the Hot Spots Analysis and Reporting Program (HARP), to assist in a coherent and consistent preparation of a Health Risk Assessment (HRA). HARP2, an update to HARP,

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6 Diesel exhaust is included within pollutants subject to the hotspot program. Please refer to OEHHA's Air Toxics Hot Spot Program Risk Assessment Guidelines. Available online at: https://oehha.ca.gov/air/crnr/notice-adoption-air-toxics-hot-spots-program-guidance-manual-preparation-health-risk-0.

was released in March 2015. HARP2 has a more refined risk characterization in HRA and CEQA documents and incorporates the 2015 OEHHA Final Guidance.

3.3 REGIONAL

Mojave Desert Air Quality Management District (MDAQMD)

The MDAQMD is the air pollution control district for San Bernardino County's High Desert and Riverside County's Palo Verde Valley. The MDAQMD has primary responsibility for regulating stationary sources of air pollution located within its jurisdictional boundaries. The MDAQMD implements air quality programs required by state and federal mandates, enforces rules and regulations based on air pollution laws, and educates businesses and residents about their role in protecting air quality and the risks of air pollution. Orange County and the non-desert portions of Los Angeles, Riverside, and San Bernardino Counties.[7]

MDAQMD Rules and Regulations

The following is a list of noteworthy MDAQMD rules that are required of construction activities associated with the Project:

- Rule 401 – *Visible Emissions.* A person shall not discharge into the atmosphere from any single source of emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour, which is:

    1. As dark or darker in shade as that designated No. 1 on the Ringelmann Chart, as published by the United States Bureau of Mines, or

    2. (b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subsection (a) of this rule.

- Rule 402 – *Nuisance.* A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property

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7 MDAQMD. *What is MDAQMD?* Available online at: https://www.mdaqmd.ca.gov/about-us, accessed November 10, 2025.

- Rule 403 – *Fugitive Dust.*

(C) Requirements

1. Any person shall not cause or allow the emissions of fugitive dust from any transport, handling, construction or storage activity so that the visible fugitive dust remains visible in the atmosphere beyond the property line of the emission source, except during high winds.

2. A person shall take every reasonable precaution to minimize fugitive dust emissions from wrecking, excavation, grading, clearing of land and solid waste disposal operations.

3. A person shall not cause or allow PM10 to exceed 100 micrograms per cubic meter when determined as the difference between upwind and downwind samples collected on federal reference method samplers at the property line for a minimum of five hours, except during high winds. Installation of samplers or monitors to determine compliance with this subsection shall be required at the Air Pollution Control Officer's (APCO) discretion.

4. Cities, Towns, and the County of San Bernardino shall collectively:

    a) Stabilize sufficient publicly maintained heavily traveled unpaved roads to reduce fugitive dust entrainment and wind erosion by at least 1,541 tons per year of PM10 emissions relative to 1990.

5. The Owner/Operator of a site undergoing weed abatement activity shall not:

    a) Disrupt the soil crust to the extent that visible fugitive dust is created due to wind erosion.

6. The Owner/Operator of any construction/demolition activities subject to this rule in accordance with subsection (A)(2) of this rule shall:

    a) Obtain and maintain a District-approved Dust Control Plan as set forth by Section (D) of this Rule; and

    b) Use periodic watering for short-term stabilization of disturbed surface area to minimize visible fugitive dust emissions. for the purposes of this rule, use of a water truck to maintain moist disturbed surfaces and actively spread water during visible dusting episodes shall be considered sufficient to maintain compliance; and

    c) Take actions sufficient to prevent project-related trackout onto paved surfaces; and;

d) Cover loaded haul vehicles while operating on publicly maintained paved surfaces; and

e) Stabilize graded site surfaces upon completion of grading when subsequent development is delayed or expected to be delayed more than thirty days, except when such delay is due to precipitation that dampens the disturbed surface sufficiently to eliminate visible fugitive dust emissions; and

f) Cleanup project-related trackout or spills on publicly maintained paved surfaces within twenty-four hours; and

g) Reduce non-essential earth-moving activity under high wind conditions. For purposes of this rule, a reduction in earth-moving activity when visible dusting occurs from moist and dry surfaces due to wind erosion shall be considered sufficient to maintain compliance; and

h) Maintain the natural topography to the extent possible during grading and other earth movement; and

i) Provide a construction schedule that specifies construction of parking lots and paved roads first, where feasible, and upwind structures prior to downwind structures; and

j) Cover or otherwise contain bulk material carried on haul trucks operating on paved roads; and

k) Remove bulk material tracked onto paved road surfaces.

- Rule 404: *Particulate Matter Concentration.* A person shall not discharge into the atmosphere from any source, particulate matter except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Table 404(a). Where the volume discharged is between figures listed in the table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

  1. The provisions of this rule shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.

  2. For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period. Refer to the official text of the Rule at the MDAQMD website to see Table 404(a).

- Rule 405: *Solid Particulate Matter Weight*

    1. A person shall not discharge into the atmosphere from any source, solid particulate matter including lead and lead compounds, in excess of the rate shown in Table 405 (a). Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.

    2. For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period. Refer to the official text of the Rule at the MDAQMD website to see Table 405(a).

- Rule 409: *Combustion Contaminants.* A person shall not discharge into the atmosphere from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO_2) at standard conditions averaged over a minimum of 25 consecutive minutes.

3.4 LOCAL

Yucca Valley General Plan

The Town's Open Space and Conservation Element of the General Plan provides goals and policies that address the balance of development and growth with resource protection and preservation issues related to open space, water resources, air quality, biological resources, cultural and paleontological resources, soils, and scenic resources within the Town limits.[8] The following air quality goals and policies are relevant to the Project:

Goal OSC 10: Preservation and enhancement of the Mojave Desert region's air quality, in order to assure long-term availability of clean and healthful air in the Town of Yucca Valley, for the protection of the health and welfare of the community.

- **Policy OSC 10-3:** Promote the safe and efficient movement of people and materials into and through the Town as a means of reducing the impact of automobiles on local air quality.

- **Policy OSC 10-4:** Coordinate land use planning efforts to assure that sensitive receptors are reasonably separated from polluting point sources.

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8 Town of Yucca Valley, *Town of Yucca Valley General Plan: Open Space and Conservation Element*, adopted February 4, 2014. Available online at: https://www.yucca-valley.org/home/showpublisheddocument/2596/637009395718470000, accessed September 12, 2025.

- **Policy OSC 10-5:** Provide consistent and effective code enforcement for construction and grading activities to assure ground disturbances do not contribute to blowing sand and fugitive dust emissions.

Yucca Valley Municipal Code

Section 9.34.040 – Air Quality[9]

A. Equipment Permit And Inspection Requirements: Required permits shall be obtained from the Mojave Desert air quality management district. Before the equipment may be constructed, plans and specifications shall be submitted to the MDAQMD for approval.

B. Permits From Air Quality Management Districts: Permits shall be obtained from the Mojave Desert air quality management district. If requested by the director, uses, activities, or processes that require air quality management district approval to operate shall file a copy of the permit with the department within thirty (30) days of its approval.

C. Diesel Exhaust Emissions Control Measures: The following emissions control measures shall apply to all discretionary land use projects approved by the town on or after January 15, 2009:

1. On Road Diesel Vehicles: On-road diesel vehicles are regulated by the California Air Resources Board.

2. Off-Road Diesel Vehicle/Equipment Operations: All business establishments and contractors that use off-road diesel vehicle/equipment as part of their normal business operations shall adhere to the following measures during their operations in order to reduce diesel particulate matter emissions from diesel fueled engines:

    a. Off road vehicles/equipment shall not be left idling on site for periods in excess of five (5) minutes. The idling limit does not apply to:

        1. Idling when queuing;

        2. Idling to verify that the vehicle is in safe operating condition;

        3. Idling for testing, servicing, repairing or diagnostic purposes;

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9 Town of Yucca Valley, *YVMC: Chapter 9.34.040: Air Quality*. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-16170, accessed September 12, 2025.

4. Idling necessary to accomplish work for which the vehicle was designed (such as operating a crane) and;

5. Idling required to bring the machine system to operating temperature.

b. Use reformulated ultra-low sulfur diesel fuel in equipment and use equipment certified by the U.S. Environmental Protection Agency (U.S. EPA) or that predates U.S. EPA regulations.

c. Maintain engines in good working order to reduce emissions.

d. Signs shall be posted requiring vehicle drivers to turn off engines when parked.

e. Any requirements or standards subsequently adopted by the Mojave Desert Air Quality Management District or the California Air Resources Board.

f. Provide temporary traffic control during all phases of construction.

g. On-site electrical power connections shall be provided for electric construction tools to eliminate the need for diesel-powered electric generators, where feasible.

h. Maintain construction equipment engines in good working order to reduce emissions. The developer shall have each contractor certify that all construction equipment is properly serviced and maintained in good operating condition.

i. Contractors shall use ultra-low sulfur diesel fuel for stationary construction equipment as regulated by air quality management district rules 431.1 and 431.2 to reduce the release of undesirable emissions.

j. Substitute electric and gasoline powered equipment for diesel powered equipment, where feasible.

4.0 AIR QUALITY ANALYSIS

4.1 THRESHOLDS AND METHODOLOGY

Thresholds of Significance

The impact analysis provided below is based on the application of the following *California Environmental Quality Act (CEQA) Guidelines* Appendix G, which indicates that a Project would have a significant impact on air quality if it would:

1. Conflict with or obstruct implementation of any applicable air quality plan.
2. Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment under an applicable federal or state ambient air quality standard.
3. Expose sensitive receptors to substantial pollutant concentrations.
4. Result in other emissions (such as those leading to odors), adversely affecting a substantial number of people.

MDAQMD Thresholds

The *MDAQMD CEQA and Federal Conformity Guidelines (MDAQMD Guidelines)* set forth methodologies and quantitative significance thresholds that a lead agency may use to estimate and evaluate the significance of a project's air emissions. According to the MDAQMD, any project is significant if it triggers or exceeds the most appropriate evaluation criteria. The District will clarify upon request which threshold is most appropriate for a given project; in general, the emissions comparison (criteria number 1) is sufficient:

1. Generates total emissions (direct and indirect) in excess of the thresholds given in **Table 6**;
2. Generates a violation of any ambient air quality standard when added to the local background;
3. Does not conform with the applicable attainment or maintenance plan(s);
4. Exposes sensitive receptors to substantial pollutant concentrations, including those resulting in a cancer risk greater than or equal to 10 in a million and/or a Hazard Index (HI) (non-cancerous) greater than or equal to 1.

A project with potentially significant impacts must incorporate mitigation sufficient to reduce its impact to a level that is not significant. A project that cannot be mitigated to a level that is not significant must

incorporate all feasible mitigation. Note that the emission thresholds are given as a daily value and an annual value, so that a multi-phased project (such as a project with a construction phase and a separate operational phase) with phases shorter than one year can be compared to the daily value.[10] See **Table 6, Mojave Desert AQMD Air Quality Significance Thresholds,** below.

Table 6
Mojave Desert AQMD Air Quality Significance Thresholds

Mass Daily Thresholds[a]		
Pollutant	**Annual Threshold (short tons)**	**Daily Threshold (pounds)**
NOx	25	137
VOC	25	137
PM10	15	82
PM2.5	12	65
SOx	25	137
CO	100	548
Lead	0.6	3
Greenhouse Gas (GHG) Thresholds		
GHG	100,000 short tons/yr or 548,000 pounds/day CO_2e	

[a] *Source: MDAQMD CEQA and Federal Conformity Guidelines*, 2020.

Additionally, a project is deemed to be consistent with applicable attainment or maintenance plans if the project is consistent with its land use plan designation.[11]

Methodology

This analysis focuses on the nature and magnitude of the change in the air quality environment due to implementation of the Project. Air pollutant emissions associated with the Project would result from on-site Project operations and from Project-related traffic volumes. Construction activities would also generate air pollutant emissions at the Project Site and on roadways, resulting from construction-related equipment and traffic. The increase in Project Site emissions generated by these activities and other secondary sources

10 MDAQMD, *MDAQMD CEQA and Federal Conformity Guidelines*, 2020. Available online at: https://www.mdaqmd.ca.gov/home/showpublisheddocument/8510/638126583450270000, accessed November 10, 2025.

11 MDAQMD, *MDAQMD CEQA and Federal Conformity Guidelines*, 2020. Available online at: https://www.mdaqmd.ca.gov/home/showpublisheddocument/8510/638126583450270000, accessed November 10, 2025.

has been quantitatively estimated and compared to thresholds of significance recommended by the MDAQMD (see **Project Impacts** subsection below).

Construction Emissions

The regional construction emissions associated with the Project were calculated using the California Emissions Estimator Model (CalEEMod). CalEEMod was developed in collaboration with the air districts of California as a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects.

Construction activities associated with site preparation, grading, and building construction would generate pollutant emissions. Specifically, these construction activities would temporarily create emissions of dust, fumes, equipment exhaust, and other air contaminants. These construction emissions were compared to the thresholds established by the MDAQMD.

Operational Emissions

Operational emissions associated with the Project were also calculated using CalEEMod. Operational emissions associated with the Project would comprise mobile source emissions, energy demand, and other area source emissions. Mobile source emissions are generated by the increase in motor vehicle trips to and from the Project Site associated with operation of the Project. Area source emissions are generated by landscape maintenance equipment, application of architectural coatings, and consumer products. To determine if a regional air quality impact would occur, the increase in emissions is compared with the MDAQMD's recommended regional thresholds for operational emissions.

4.2 PROJECT IMPACTS

AQ Impact 1 **Would implementation of the Proposed Project conflict with or obstruct implementation of any applicable air quality plan?** ***(Less than Significant).***

As part of its enforcement responsibilities, the U.S. EPA requires each state with nonattainment areas to prepare and submit a SIP that demonstrates the means to attain the federal standards. The SIP must integrate federal, state, and local plan components and regulations to identify specific measures to reduce pollution in nonattainment areas, using a combination of performance standards and market-based programs. Similarly, under state law, the CCAA requires an air quality attainment plan to be prepared for areas designated as nonattainment with regard to the federal and state ambient air quality standards. Air

quality attainment plans outline emissions limits and control measures to achieve and maintain these standards by the earliest practical date.

As previously discussed, according to the MDAQMD, if a project does not exceed the thresholds established in **Table 6**, the project would be deemed to be consistent with applicable attainment or maintenance plans. Additionally, if the project is consistent with the existing land use plan designation, it is considered to be consistent with the applicable attainment or maintenance plans. As demonstrated in **AQ Impact 2**, below, the Project would not exceed the thresholds established in **Table 6**; further, the Project is consistent with the land use and zoning for the Project Site. The Project Site is designated as Mixed Use (MU) and is zoned for Mixed-Use Commercial (C-MU). Commercial land uses support local and regional serving retail and service uses, including uses such as shopping centers and malls, small commercial centers, hotels, commercial recreation uses such as movie theaters and bowling alleys, restaurants, supermarkets, and personal services. Fast food (with drive-through, delivery) is permitted in the C-MU zone only with a conditional use permit (CUP).[12] Therefore, the Project would not conflict with or obstruct the implementation of any air quality plan established by the MDAQMD.

AQ Impact 2 **Would implementation of the Proposed Project result in a cumulatively considerable net increase of any criteria pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard? *(Less than Significant).***

A project may have a significant impact if project-related emissions would result in a cumulatively considerable net increase for a criteria pollutant for which the region in nonattainment under applicable federal or state ambient air quality standards.

Construction Significance Analysis

For purposes of this analysis, it is estimated that the Project would be constructed in approximately 5 months, with construction beginning in 2026 and project operations commencing in the same year. While construction may begin at a later date and/or take place over a longer period, these assumptions represent the earliest and fastest build-out potential, resulting in a worst-case daily impact scenario for purposes of this analysis. This analysis assumes construction would be undertaken with the following primary construction phases: (1) debris clearing/foundation preparation, (2) grading, and (3) building construction.

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12 Town of Yucca Valley, *YVMC: Chapter 9.09: Commercial Districts*. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-14877, accessed November 10, 2025.

The Project would also require paving and architectural coatings, which have conservatively been assumed to occur concurrently during the final month of the building construction phase.

The analysis of regional daily construction emissions has been prepared utilizing the CalEEMod computer model. Predicted maximum daily construction-generated emissions for the Project are summarized in **Table 7, Construction-Related Criteria Pollutant and Precursor Emissions.** These calculations assume that appropriate dust control measures would be implemented as part of the Project during each phase of development, as specified by MDAQMD Rule 403 (Fugitive Dust). As shown in **Table 7**, the peak daily emissions generated during the construction of the Project would not exceed any of the emission thresholds recommended by the MDAQMD. Therefore, Project construction would not result in a cumulatively considerable net increase of any criteria air pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard.

Table 7
Construction-Related Criteria Pollutant and Precursor Emissions

Maximum Pounds Per Day						
Construction Year	**ROG**	**NOx**	**CO**	**SO_2**	**PM10**	**PM2.5**
2026	1.60	13.00	15.00	0.02	7.90	4.00
Threshold	**137**	**137**	**548**	**137**	**82**	**65**
Exceed?	*No*	*No*	*No*	*No*	*No*	*No*
Maximum Annual Emissions (short tons)*						
Construction Year	**ROG**	**NOx**	**CO**	**SO_2**	**PM10**	**PM2.5**
2026	0.05	0.43	0.54	< 0.01	0.10	0.06
Threshold	**25**	**25**	***100***	**25**	**15**	**12**
Exceed?	*No*	*No*	*No*	*No*	*No*	*No*

*Source: Impact Sciences, November 2025. See **Appendix A** to this report. Emissions shown are the highest daily maximum from either the summer or winter season.*
**In CalEEMod, criteria pollutants are represented in pounds per day for daily values, and tons per year for annual values. For clarity purposes, a "ton" and a "short ton" are both equivalent to 2,000 pounds.*
Note: Project emissions account for the reductions from MDAQMD Rule 403 (Fugitive Dust).

Operational Significance Analysis

Project-generated emissions would be associated with motor vehicle use, energy use, and area sources, such as the use of natural-gas-fired appliances, landscape maintenance equipment, consumer cleaning products, and architectural coatings associated with the operation of the Project. The operational emissions from the Project were calculated with CalEEMod, and the operational emissions were compared against MDAQMD thresholds to determine Project significance. Long-term operational emissions attributable to

the Project are summarized in **Table 8, Long-Term Operational Emissions**. As shown, the operational emissions generated by the Project would not exceed the regional thresholds of significance set by the MDAQMD.

Table 8
Long-Term Operational Emissions

Maximum Pounds Per Day						
Source	**ROG**	**NOx**	**CO**	**SO_2**	**PM10**	**PM2.5**
Mobile Source	2.00	2.50	22.00	0.05	4.50	1.20
Area Source	0.03	< 0.01	0.04	< 0.01	< 0.01	< 0.01
Energy Use	< 0.01	0.03	0.03	< 0.01	< 0.01	< 0.01
Total	*2.04*	*2.54*	*22.07*	*0.07*	*4.52*	*1.22*
Threshold	**137**	**137**	**548**	**137**	**82**	**65**
Exceed?	*No*	*No*	*No*	*No*	*No*	*No*
Maximum Annual Emissions (short tons)*						
Source	**ROG**	**NOx**	**CO**	**SO_2**	**PM10**	**PM2.5**
Mobile	0.27	0.26	1.90	< 0.01	0.40	0.11
Area Source	0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Energy Use	< 0.01	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Total	*0.29*	*0.28*	*1.92*	*< 0.03*	*0.42*	*0.13*
Threshold	**25**	**25**	**100**	**25**	**15**	**12**
Exceed?	*No*	*No*	*No*	*No*	*No*	*No*

*Source: Impact Sciences, November 2025. See **Appendix A** to this report. Emissions shown are the highest daily maximum from either the summer or winter season.*
**In CalEEMod, criteria pollutants are represented in pounds per day for daily values, and tons per year for annual values. For clarity purposes, a "ton" and a "short ton" are both equivalent to 2,000 pounds.*

As shown in **Table 7** and **Table 8**, the Project's construction and operational emissions would not exceed the MDAQMD's thresholds for any criteria air pollutants. Thus, the Project would also not result in a cumulatively considerable net increase of any criteria air pollutant for which the Project region is nonattainment under an applicable federal or state ambient air quality standard. These impacts are less than significant.

Air Quality Health Impacts

On December 24, 2018, the California Supreme Court published its opinion on the *Sierra Club et al. v. County of Fresno et. Al.* (Case No. S219783), which determined that an environmental review must adequately analyze a project's potential impacts and inform the public how its bare numbers translate to a potential

adverse health impact or explain how existing scientific constraints cannot translate the emissions numbers to the potential health impacts.

Criteria air pollutants are defined as those pollutants for which the federal and state governments have established air quality standards for outdoor or ambient concentrations to protect public health. The national and state ambient air quality standards have been set at levels to protect human health with a determined margin of safety. As discussed previously, the Basin is in state non-attainment for PM2.5, PM10, and Ozone (O_3) and federal non-attainment for PM10 and O_3. Therefore, an increase in emissions of particulate matter or ozone precursors (ROG and NOx) has the potential to push the region further from reaching attainment status, and, as a result, these pollutants are the greatest concern in the region. As noted in **Table 7** and **Table 8** above, the Project will emit criteria air pollutants during construction and operation. However, the Project will not exceed MDAQMD thresholds for ozone precursors (ROG and NOx), PM2.5, PM10, or any other criteria air pollutants, and will not result in a cumulatively significant impact for which the region is in non-attainment. With respect to the Project's increase in criteria pollutant emissions, the Project would not have the potential to cause significant air quality health impacts. Therefore, impacts are less than significant.

AQ Impact 3 **Would implementation of the Proposed Project expose sensitive receptors to substantial air pollutant concentrations? (*Less than Significant).***

Based on the MDAQMD Guidelines, a significant impact may occur if a project were to generate pollutant concentrations to a degree that would significantly affect sensitive receptors.

Construction

Project impacts related to increased community risk could occur by introducing a new source of localized pollutants during construction and operation, with the potential to adversely affect existing sensitive receptors in the Project vicinity. According to the MDAQMD, residences, schools, daycare centers, playgrounds, and medical facilities are considered to be sensitive receptor land uses. The following project types proposed for sites within the specified distance to an existing or planned (zoned) sensitive receptor land use must be evaluated using significance threshold criteria number four per MDAQMD guidelines:[13]

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13 MDAQMD, CEQA and Federal Conformity Guidelines. Available online at: https://www.mdaqmd.ca.gov/home/showpublisheddocument/8510/638126583450270000, accessed November 10, 2025.

- Any industrial project within 1,000 feet
- A distribution center (40 or more trucks per day) within 1,000 feet
- A major transportation project (50,000 or more vehicles per day) within 1,000 feet
- A dry cleaner using perchloroethylene within 500 feet
- A gasoline dispensing facility within 300 feet

The Project is not proposing to develop any of the project types listed above and will not be required to be evaluated against MDAQMD significance threshold criteria number four. The closest air quality sensitive receptors would be the single-family residences 228 feet to the south of the Project Site.

The primary sources of potential TACs under the Project would be construction activity and the associated generation of diesel particulate matter (DPM) emissions from the use of off-road diesel equipment required for grading, paving, and other construction activities. The amount to which nearby sensitive receptors are exposed (a function of concentration and duration of exposure) is the primary factor used to determine health risk. Health-related risks associated with diesel exhaust emissions are primarily linked to long-term exposure and the associated risk of contracting cancer. Construction of the Project would not have the potential to generate large amounts of DPM since a minimal amount of daily heavy construction equipment will be utilized, and the overall construction duration would be short (approximately 5 months). Furthermore, the low levels of diesel exhaust would primarily be emitted during the grading/foundational preparation phase, which is anticipated to last only one month total. Average daily diesel exhaust emissions generated on-site during the 4 months of building construction would be negligible. Emissions generated from the development of the Project are temporary and localized and would cease upon completion of construction. This impact would be less than significant.

Operation

Project-operation impacts related to increased health risk can occur either by introducing a new source of TACs with the potential to adversely affect existing sensitive receptors, or by introducing a new sensitive receptor, such as a residential use, in proximity to an existing source of TACs.

The Project does not include any stationary sources of TAC emissions, and most vehicles associated with the operation of the Project would run on gasoline and not diesel, which is the primary source of TACs and DPM. Therefore, operation of the Project would not generate TAC or PM2.5 emissions that could affect the health of sensitive receptors. As such, the Project would not contribute to human health risk to nearby receptors during operation, and the Project would not contribute to any cumulative human health risk impact.

AQ Impact 4 **Would the Proposed Project include sources that could create other emissions (such as those leading to odors) adversely affecting a substantial number of people? (*Less than Significant).***

According to CARB's CEQA Air Quality Handbook, land uses often associated with odors include agriculture (farming and livestock), wastewater treatment plants, food processing plants, chemical plants, composting facilities, refineries, landfills, dairies, and fiberglass molding. The Project would not include any of the land uses that have been identified by CARB as odor sources.

Construction activities associated with the Project may generate detectable odors from heavy-duty equipment exhaust and architectural coatings. However, construction-related odors would be short-term in nature and cease upon Project completion. In addition, the Project would be required to comply with the California Code of Regulations, Title 13, sections 2449(d)(3) and 2485, as well as YVMC Section 9.34.040, which minimizes the idling time of construction equipment either by shutting it off when not in use or by reducing the time of idling to no more than five minutes. This would reduce the detectable odors from heavy-duty equipment exhaust. Any odor impacts to existing adjacent land uses would be short-term and not substantial. As such, the Project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people. Impacts would be less than significant.

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APPENDIX A

Air Quality Data

Yucca Valley Dutch Bros Custom Report

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5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

8. User Changes to Default Data

8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Yucca Valley Dutch Bros
Construction Start Date	3/2/2026
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.6
Precipitation (days)	14
Location	34.12734, -116.395715
County	San Bernardino-Mojave Desert
City	Yucca Valley
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5142
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.32

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Fast Food Restaurant with Drive Thru	1.0	1000sqft	0.85	1,025	10,350	—	—	—
Parking Lot	18	Space	0.16	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.8	1.6	12	15	0.02	0.56	7.3	7.9	0.51	3.5	4.0	—	2,753	2,753	0.11	0.09	1.3	2,784
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.6	1.4	13	13	0.02	0.56	7.3	7.9	0.51	3.5	4.0	—	2,742	2,742	0.09	0.09	0.03	2,771
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.33	0.28	2.4	2.9	0.01	0.10	0.48	0.57	0.09	0.23	0.32	—	583	583	0.02	0.01	0.05	586
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.06	0.05	0.43	0.54	< 0.005	0.02	0.09	0.10	0.02	0.04	0.06	—	97	97	< 0.005	< 0.005	0.01	97

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.8	1.6	12	15	0.02	0.56	7.3	7.9	0.51	3.5	4.0	—	2,753	2,753	0.11	0.09	1.3	2,784
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.6	1.4	13	13	0.02	0.56	7.3	7.9	0.51	3.5	4.0	—	2,742	2,742	0.09	0.09	0.03	2,771
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.33	0.28	2.4	2.9	0.01	0.10	0.48	0.57	0.09	0.23	0.32	—	583	583	0.02	0.01	0.05	586
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.06	0.05	0.43	0.54	< 0.005	0.02	0.09	0.10	0.02	0.04	0.06	—	97	97	< 0.005	< 0.005	0.01	97

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.2	2.0	2.3	22	0.05	0.04	4.5	4.5	0.04	1.1	1.2	7.0	5,449	5,456	0.86	0.22	20	5,562
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.0	1.8	2.5	16	0.05	0.04	4.5	4.5	0.04	1.1	1.2	7.0	4,975	4,982	0.87	0.22	2.1	5,073
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.6	1.5	1.5	10	0.02	0.02	2.2	2.2	0.02	0.56	0.58	7.0	2,612	2,619	0.81	0.13	5.6	2,683
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.30	0.28	0.27	1.9	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.11	1.2	432	434	0.13	0.02	0.92	444

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.2	2.0	2.3	22	0.05	0.04	4.5	4.5	0.04	1.1	1.2	—	5,346	5,346	0.16	0.21	18	5,432
Area	0.03	0.03	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.18	0.18	< 0.005	< 0.005	—	0.18
Energy	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	99	99	0.01	< 0.005	—	99
Water	—	—	—	—	—	—	—	—	—	—	—	0.60	4.0	4.6	0.06	< 0.005	—	6.6
Waste	—	—	—	—	—	—	—	—	—	—	—	6.4	0.00	6.4	0.64	0.00	—	22
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.6	1.6
Total	2.2	2.0	2.3	22	0.05	0.04	4.5	4.5	0.04	1.1	1.2	7.0	5,449	5,456	0.86	0.22	20	5,562
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.0	1.8	2.5	16	0.05	0.04	4.5	4.5	0.04	1.1	1.2	—	4,872	4,872	0.16	0.22	0.48	4,943
Area	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	99	99	0.01	< 0.005	—	99
Water	—	—	—	—	—	—	—	—	—	—	—	0.60	4.0	4.6	0.06	< 0.005	—	6.6
Waste	—	—	—	—	—	—	—	—	—	—	—	6.4	0.00	6.4	0.64	0.00	—	22
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.6	1.6
Total	2.0	1.8	2.5	16	0.05	0.04	4.5	4.5	0.04	1.1	1.2	7.0	4,975	4,982	0.87	0.22	2.1	5,073
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.6	1.5	1.4	10	0.02	0.02	2.2	2.2	0.02	0.56	0.58	—	2,509	2,509	0.11	0.13	4.0	2,553
Area	0.03	0.03	< 0.005	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.09	0.09	< 0.005	< 0.005	—	0.09
Energy	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	99	99	0.01	< 0.005	—	99
Water	—	—	—	—	—	—	—	—	—	—	—	0.60	4.0	4.6	0.06	< 0.005	—	6.6
Waste	—	—	—	—	—	—	—	—	—	—	—	6.4	0.00	6.4	0.64	0.00	—	22

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.6	1.6
Total	1.6	1.5	1.5	10	0.02	0.02	2.2	2.2	0.02	0.56	0.58	7.0	2,612	2,619	0.81	0.13	5.6	2,683
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.29	0.27	0.26	1.9	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.11	—	415	415	0.02	0.02	0.66	423
Area	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.01	0.01	< 0.005	< 0.005	—	0.02
Energy	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16	16	< 0.005	< 0.005	—	16
Water	—	—	—	—	—	—	—	—	—	—	—	0.10	0.67	0.77	0.01	< 0.005	—	1.1
Waste	—	—	—	—	—	—	—	—	—	—	—	1.1	0.00	1.1	0.11	0.00	—	3.7
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Total	0.30	0.28	0.27	1.9	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.11	1.2	432	434	0.13	0.02	0.92	444

3. Construction Emissions Details

3.1. Debris Removal (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.4	1.1	10	11	0.02	0.42	—	0.42	0.39	—	0.39	—	1,970	1,970	0.08	0.02	—	1,977
Dust From Material Movement	—	—	—	—	—	—	5.7	5.7	—	2.9	2.9	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.29	0.31	< 0.005	0.01	—	0.01	0.01	—	0.01	—	54	54	< 0.005	< 0.005	—	54
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.08	0.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.9	8.9	< 0.005	< 0.005	—	9.0
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.51	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	127	127	< 0.005	< 0.005	0.01	128
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.6	3.6	< 0.005	< 0.005	0.01	3.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.59	0.59	< 0.005	< 0.005	< 0.005	0.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.6	1.3	12	12	0.02	0.55	—	0.55	0.50	—	0.50	—	2,201	2,201	0.09	0.02	—	2,209
Dust From Material Movement	—	—	—	—	—	—	7.1	7.1	—	3.4	3.4	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.6	1.3	12	12	0.02	0.55	—	0.55	0.50	—	0.50	—	2,201	2,201	0.09	0.02	—	2,209

Dust From Material Movement	—	—	—	—	—	—	7.1	7.1	—	3.4	3.4	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.05	0.49	0.51	< 0.005	0.02	—	0.02	0.02	—	0.02	—	90	90	< 0.005	< 0.005	—	91
Dust From Material Movement	—	—	—	—	—	—	0.29	0.29	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	15	15	< 0.005	< 0.005	—	15
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.58	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	107	107	< 0.005	< 0.005	0.36	109
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.50	0.11	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	445	445	< 0.005	0.07	0.92	467

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.39	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	95	95	< 0.005	< 0.005	0.01	96
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.53	0.11	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	446	446	< 0.005	0.07	0.02	467
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.0	4.0	< 0.005	< 0.005	0.01	4.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	18	18	< 0.005	< 0.005	0.02	19
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.67	0.67	< 0.005	< 0.005	< 0.005	0.67
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.0	3.0	< 0.005	< 0.005	< 0.005	3.2

3.5. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.54	5.2	6.7	0.01	0.21	—	0.21	0.19	—	0.19	—	1,407	1,407	0.06	0.01	—	1,412
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.2	1.6	< 0.005	0.05	—	0.05	0.05	—	0.05	—	339	339	0.01	< 0.005	—	340
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.23	0.30	< 0.005	0.01	—	0.01	0.01	—	0.01	—	56	56	< 0.005	< 0.005	—	56
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.2	6.2	< 0.005	< 0.005	0.02	6.2
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.2	5.2	< 0.005	< 0.005	0.01	5.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.4	1.4	< 0.005	< 0.005	< 0.005	1.4
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.3	1.3	< 0.005	< 0.005	< 0.005	1.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.21	0.21	< 0.005	< 0.005	< 0.005	0.22
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	4.2	5.3	0.01	0.17	—	0.17	0.16	—	0.16	—	820	820	0.03	0.01	—	823
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.25	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49	49	< 0.005	< 0.005	—	50
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.2	8.2	< 0.005	< 0.005	—	8.2
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.4	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	250	250	0.01	0.01	0.85	254
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14	14	< 0.005	< 0.005	0.02	14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.3	2.3	< 0.005	< 0.005	< 0.005	2.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.1	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134

Architectural	0.31	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.0	8.0	< 0.005	< 0.005	—	8.1
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.3	1.3	< 0.005	< 0.005	—	1.3
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.2	1.2	< 0.005	< 0.005	< 0.005	1.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	2.2	2.0	2.3	22	0.05	0.04	4.5	4.5	0.04	1.1	1.2	—	5,346	5,346	0.16	0.21	18	5,432
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	2.2	2.0	2.3	22	0.05	0.04	4.5	4.5	0.04	1.1	1.2	—	5,346	5,346	0.16	0.21	18	5,432
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	2.0	1.8	2.5	16	0.05	0.04	4.5	4.5	0.04	1.1	1.2	—	4,872	4,872	0.16	0.22	0.48	4,943
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.0	1.8	2.5	16	0.05	0.04	4.5	4.5	0.04	1.1	1.2	—	4,872	4,872	0.16	0.22	0.48	4,943
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	0.29	0.27	0.26	1.9	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.11	—	415	415	0.02	0.02	0.66	423
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.29	0.27	0.26	1.9	< 0.005	< 0.005	0.40	0.40	< 0.005	0.10	0.11	—	415	415	0.02	0.02	0.66	423

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	52	52	< 0.005	< 0.005	—	53
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	9.0	9.0	< 0.005	< 0.005	—	9.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	61	61	< 0.005	< 0.005	—	62
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	52	52	< 0.005	< 0.005	—	53
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	9.0	9.0	< 0.005	< 0.005	—	9.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	61	61	< 0.005	< 0.005	—	62
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	8.7	8.7	< 0.005	< 0.005	—	8.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1.5	1.5	< 0.005	< 0.005	—	1.5
Total	—	—	—	—	—	—	—	—	—	—	—	—	10	10	< 0.005	< 0.005	—	10

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38	38	< 0.005	< 0.005	—	38
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38	38	< 0.005	< 0.005	—	38
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38	38	< 0.005	< 0.005	—	38
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38	38	< 0.005	< 0.005	—	38
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.2	6.2	< 0.005	< 0.005	—	6.2
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.2	6.2	< 0.005	< 0.005	—	6.2

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.18	0.18	< 0.005	< 0.005	—	0.18
Total	0.03	0.03	< 0.005	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.18	0.18	< 0.005	< 0.005	—	0.18
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architect Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.01	0.01	< 0.005	< 0.005	—	0.02
Total	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.01	0.01	< 0.005	< 0.005	—	0.02

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.60	4.0	4.6	0.06	< 0.005	—	6.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.60	4.0	4.6	0.06	< 0.005	—	6.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.60	4.0	4.6	0.06	< 0.005	—	6.6

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.60	4.0	4.6	0.06	< 0.005	—	6.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.10	0.67	0.77	0.01	< 0.005	—	1.1
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.10	0.67	0.77	0.01	< 0.005	—	1.1

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.4	0.00	6.4	0.64	0.00	—	22
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.4	0.00	6.4	0.64	0.00	—	22
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	6.4	0.00	6.4	0.64	0.00	—	22
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	6.4	0.00	6.4	0.64	0.00	—	22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.1	0.00	1.1	0.11	0.00	—	3.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.1	0.00	1.1	0.11	0.00	—	3.7

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.6	1.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.6	1.6

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.6	1.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.6	1.6
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.27	0.27

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Debris Removal	Site Preparation	3/2/2026	3/13/2026	5.0	10.0	—
Grading	Grading	3/16/2026	4/3/2026	5.0	15	—
Building Construction	Building Construction	4/6/2026	8/5/2026	5.0	88	—
Paving	Paving	7/7/2026	8/5/2026	5.0	22	—
Architectural Coating	Architectural Coating	7/7/2026	8/5/2026	5.0	22	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Debris Removal	Rubber Tired Dozers	Diesel	Average	1.00	7.0	367	0.40

Debris Removal	Tractors/Loaders/Back	Diesel	Average	2.0	8.0	84	0.37
Debris Removal	Concrete/Industrial Saws	Diesel	Average	1.00	6.0	33	0.73
Grading	Graders	Diesel	Average	1.00	8.0	148	0.41
Grading	Tractors/Loaders/Back hoes	Diesel	Average	1.00	7.0	84	0.37
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Building Construction	Cranes	Diesel	Average	1.00	6.0	367	0.29
Building Construction	Forklifts	Diesel	Average	2.0	6.0	82	0.20
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	2.0	6.0	84	0.37
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.0	84	0.37
Paving	Pavers	Diesel	Average	1.00	6.0	81	0.42
Paving	Rollers	Diesel	Average	1.00	7.0	36	0.38
Paving	Cement and Mortar Mixers	Diesel	Average	4.0	6.0	10.0	0.56
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.0	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Debris Removal	Worker	10.0	19	LDA,LDT1,LDT2
Debris Removal	Vendor	—	10	HHDT,MHDT
Debris Removal	Hauling	0.00	20	HHDT
Debris Removal	Onsite truck	—	—	HHDT
Grading	Worker	7.5	19	LDA,LDT1,LDT2
Grading	Vendor	—	10	HHDT,MHDT
Grading	Hauling	6.7	20	HHDT

Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	0.43	19	LDA,LDT1,LDT2
Building Construction	Vendor	0.17	10	HHDT,MHDT
Building Construction	Hauling	0.00	20	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	18	19	LDA,LDT1,LDT2
Paving	Vendor	—	10	HHDT,MHDT
Paving	Hauling	0.00	20	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	0.09	19	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	1,538	513	423

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Debris Removal	—	—	4.4	0.00	0.00
Grading	—	800	15	0.00	0.00
Paving	0.00	0.00	0.00	0.00	0.16

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Fast Food Restaurant with Drive Thru	0.00	0%
Paving	Parking Lot	0.16	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Fast Food Restaurant with Drive Thru	358	358	358	130,670	1,865	6,321	6,321	1,145,407
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Fast Food Restaurant with Drive Thru	Wood Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Gas Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Propane Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Electric Fireplaces	0	0
Fast Food Restaurant with Drive Thru	No Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Conventional Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Catalytic Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Non-Catalytic Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0

5.10.2. Architectural Coatings

—	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
undefined	0.00	0.00	1,538	513	423

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Fast Food Restaurant with Drive Thru	35,943	532	0.0330	0.0040	117,128
Parking Lot	6,182	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Fast Food Restaurant with Drive Thru	311,122	229,134
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Fast Food Restaurant with Drive Thru	12	0.00
Parking Lot	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.8	4.0	4.0	18
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Land Use	Project Site is 1.014 acres. The Project proposes to develop a 1,025 sq ft Dutch Bros coffee shop with drive through, 18 parking spaces, and 10,350 sq ft of landscaping.
Construction: Construction Phases	Debris removal and grading phase anticipated to be five weeks: debris removal (two weeks), grading (three weeks). Building construction anticipated to take 4 months to complete. Paving and architectural coating conservatively assumed to take place during the final month of building construction.
Construction: Off-Road Equipment	Construction mix based on construction schedule
Operations: Vehicle Data	Trip generation based on traffic memo prepared by CR Associates, dated November 12, 2025.

APPENDIX B

Biological Resources Assessment

Biological Resources Assessment

Dutch Bros Coffee Project, Yucca Valley, San Bernardino County, California

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Executive Summary

Introduction: This report includes the findings of a Biological Resources Assessment (BRA) conducted by South Environmental where a development has been proposed (Project Site) in Yucca Valley, San Bernardino County, California.

Proposed Development: The Project proposes the construction and operation of an approximately 1,025-square-foot Dutch Bros Coffee shop with a dual-lane drive-through facility and associated site improvements. The drive-through is designed to accommodate 23 queued vehicles. In addition to on-site improvements, the Project also includes off-site roadway improvements consistent with the Town's circulation plans, including the future widening of Twentynine Palms Highway to an ultimate half-width of 67 feet along the Project frontage. The site plan is presented in Appendix D.

Plant Communities/Habitat/Sensitive Natural Communities: The project would permanently remove 0.88 acre of Joshua Tree Woodland. Joshua Tree Woodland is considered a sensitive natural community by California Department of Fish and Wildlife (CDFW) based on the state rarity ranking of 3.2. The Joshua Tree Woodland community is heavily disturbed by dirt roads/paths, illegal dumping, invasive plants, and adjacent developments; however, it still has some potential to support special status wildlife such as coast horned lizard and Le Conte's thrasher. Impacts to sensitive natural communities and habitat for special-status species can be considered significant according to CEQA but 0.88 acre is a minor amount of Joshua Tree Woodland and it is highly disturbed. The project must compensate for the loss of individual Joshua Trees per the Western Joshua Tree Conservation Act as described in Mitigation Measure 2 in Section 3.2.3. Paying into the fund and protecting adjacent Joshua trees and Joshua Tree Woodlands surrounding the project site would ensure there is compensation for the loss of 0.88 acre from the project footprint. The in lieu fee program described in Mitigation Measure BIO-2 would result in the conservation, restoration, or protection of Joshua trees and Joshua Tree Woodlands into perpetuity. With the implementation of that mitigation the project impacts to 0.88 acre of disturbed Joshua Tree Woodland would be reduced to a level that is considered less than significant per the thresholds of CEQA.

Nesting Birds and Raptors: The proposed development would require potential removal of trees, shrubs, and herbaceous plants in the landscaping that could provide potential nesting habitat for birds and raptors protected by the MBTA, MBPA, and the Fish and Game Code, including special-status birds such as Le Conte's thrashers. If present at the time of vegetation removal, active nests, eggs, or young could be destroyed or otherwise disturbed to a point at which the young do not survive, which would be a violation of the MBTA, MBPA, and the Fish and Game Code. In addition, indirect impacts from noise or vibration has the potential to disturb an active bird nest that may

occur in adjacent landscaping to the point of failure if the nest is within immediate proximity to project activities, and this would also be a violation of the MBTA and Fish and Game Code. To avoid impacts to active bird or raptor nests, eggs, or young, preconstruction nesting bird surveys and monitoring is required per the MBTA and Fish and Game Code as described in Mitigation Measure BIO-1.

Special-Status Plants: Western Joshua tree occurs in the project area, and no other special-status plants are expected to occur due to the level of disturbances in the plant community. There are 22 Joshua trees within 15-meters of the proposed project footprint and 8 of those would be removed by the project because they are within the development footprint. An additional 2 Joshua trees are within the project site but will remain within landscaping after the project is built, and these would be heavily encroached into the 15 meter buffer by development. As shown in the Site Plan in Appendix C, these Joshua trees will be fenced during construction of the project to protect them from potential inadvertent impacts. Another 12 Joshua trees are outside the project site but will be encroached within a 15 meter buffer by the project construction. Protective fencing shown in the Site Plan in Appendix C will be installed between these Joshua trees and the project site during construction to avoid inadvertent impacts to these trees.

Overall the population of Joshua trees within the survey area is healthy, with very few dead trees and a mix of size classes and observations of fruits and flowers indicate that the Joshua trees are regenerating naturally on the site. The number of removals proposed by the project is 18% of the number surveyed, however, there are numerous other Joshua trees surrounding the survey area that are contiguous plant communities with that found on the site, and the relative number of removals to those in the region is very small. The removal of 8 Joshua trees is insignificant in relation to the number that are found in the immediate area. To reduce the potential impacts to a less than significant level per the thresholds of CEQA the project will implement Mitigation Measure BIO-2 below that includes permitting for the removal of the Joshua trees and protected the remaining trees.

Special-Status Wildlife: Based on the analysis in this report coast horned lizard and Le Conte's thrasher have the potential to occur within the Joshua Tree Woodland and Desert Willow Woodland habitats on the Project Site and Study Area.

Coast horned lizard have the potential to occur on the project site if it is present within the development area during construction activities they could be crushed and killed or injured. However, the habitat on the site is disturbed and of lower ecological value as a result, and coast horned lizard is more likely to occur in the desert wash outside of the project footprint. The potential for the species to be directly impacted by the project is low as it is has a low potential to occur at this area relative to the desert wash and it is highly disturbed at the urban interface. Coast horned lizard direct impacts would be low as a result. In addition, the loss of 0.88 acre of disturbed Joshua Tree Woodland that is potential habitat for coast horned lizard is less than

significant as it is a very small area that is isolated and between existing developments at the urban interface. This small area is a minor fraction of the available habitat that would remain in the immediate area, including the much higher value habitat within the desert wash 200-feet away from the project as well as in the overall range of the species. In addition, the implementation of Mitigation Measure BIO-2 would ensure that the loss of Joshua trees and Joshua Tree Woodland habitat would be mitigated. For these reasons the project impacts to coast horned lizard would be considered less than significant per the thresholds of CEQA.

Le Conte's thrasher is a CDFW Species of Special Concern that has the potential to nest and forage on the project site. The potential impacts to 0.88 acre of disturbed habitat is less than significant as it is a minor fraction of what would remain available in the immediate area and within the entire species range. To avoid direct and indirect impacts to Le Conte's thrasher birds, Mitigation Measure BIO-1 regarding nesting bird and raptor surveys is recommended. With the implementation of the mitigation measure the project impacts to Le Conte's thrasher would be reduced to a level that is less than significant according to CEQA.

Water Resources: One jurisdictional feature, a desert wash, occurs in the Study Area approximately 200 feet southwest of the Project Site and outside of the project impact areas. Since project impacts are limited to the Project Site it is not expected for the proposed project to impact the wash directly. Temporary Impacts would not occur from the project as temporary staging and construction equipment will occur on the Project Site outside of the wash, at a distance greater than 200-feet. Considering the large distance between the project site and the wash, and the position of the project site between two existing large commercial development, the project would have no indirect impacts on the wash. Therefore, no impacts to water resources would result from the project.

Protected Trees: The study area contains mature western Joshua trees, which are all regulated trees that may require permits before removal under the Yucca Valley Code of Ordinances. The velvet mesquite trees are located outside of the project footprint and would not be impacted by the project as a result. The project will remove 8 Joshua trees as described previously and propose to permit the impacts with Mitigation Measure BIO-2. With the implementation of Mitigation Measure BIO-2 the project would be in compliance with the Ordinance.

Wildlife Movement Corridors and Habitat Linkages: The Joshua Tree Woodland on the study area extends west and southwest beyond the Study Area boundary between further developed areas. This large undeveloped Joshua Tree woodland is bordered on all sides by developments such as roads and businesses and does not have connectivity to other open spaces or habitats. The Project Site is an endpoint of this community that is highly disturbed and bordered by large-scale commercial developments and major paved roadways. Any large open spaces or habitats are east of the Project Site across several roads and lines of housing developments. Therefore, no

wildlife corridors were found in the Study Area as there is no linkage to large habitats. The lack of connectivity limits the potential for special status plants and wildlife to populate the site from areas of high quality habitats. Therefore, the Project Site is not considered a wildlife movement corridor or habitat linkage area. Based on the analysis in this report the Project Site was determined not to be within a wildlife movement area or habitat linkage due to the surrounding disturbances and isolated nature of the Joshua Tree Woodland. Therefore, the project would have no impact on wildlife movement corridors and habitat linkages

1. Introduction

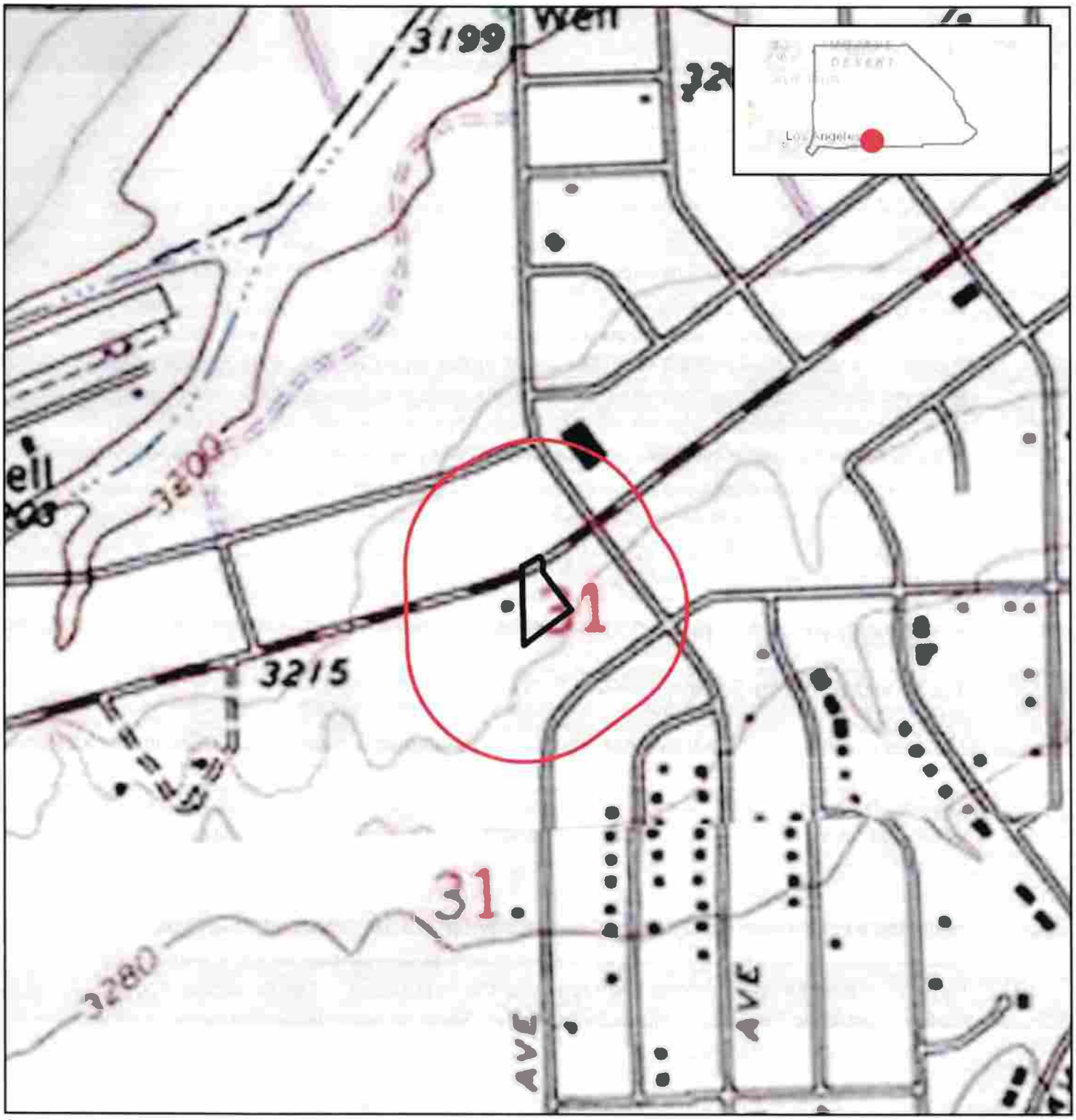
This report includes the findings of a Biological Resources Assessment (BRA) conducted by South Environmental for the Dutch Bros Coffee Project (Project Site) in Yucca Valley (Town), San Bernardino County, California. The purpose of this report is to identify and characterize biological resources that occur on the Project Site and a surrounding 500-foot buffer (Study Area), quantify and assess potential impacts to protected biological resources, and propose measures to reduce impacts to a less than significant level. The scope of this report includes a description of the proposed development, methods used to assess the biological resources, the environmental setting including technical characterizations and maps of vegetation communities, an assessment of the potential for special-status plants and animals to occur on the study area, a description of the regulatory setting, an analysis of the potential for the project to impact biological resources according to the thresholds of the California Environmental Quality Act (CEQA), and detailed recommendations for avoiding or mitigating impacts. Representative photographs of the study area are in Appendix A.

1.1 Project Description

1.1.1 Location and Setting

The Project Site is in the Town of Yucca Valley in San Bernardino County at 58121 Twentynine Palms Highway (State Route 62) (Assessor Parcel Number 0601-416-05). The Project Site is within the U.S. Geological Survey (USGS) Yucca Valley North 7.5 Minute Topographical Quadrangle, and within Section 31 of Township 01 North (01N) and Range 06 East (06E). The Project Site is set within the east side of Yucca Valley, between two large commercial developments. The entire parcel for the Project Site is 1.01-acres in size and on the south of Twentynine Palms Highway (State Route 62) between Big 5 Sporting Goods and Walgreens. The Project Site is approximately 1.02-mile east of State Route 247 and 17.31-mile northeast of Interstate 10. More broadly, the Project Site is within the Morongo Basin region of the High Desert in San Bernardino County, California (attached Figure 1 and Figure 2). The Project Site is currently designated by the Town's General Plan as Mixed Use (MU).

The Project Site is bordered by commercial development to the north, east, and west, and residential development to the south about 100-feet south of the development. Undeveloped land occurs in the southwest Study Area. The Project Site is largely undeveloped with some disturbed dirt road areas from off road vehicles and some areas of illegal dumping of garbage. One area in the extreme north of the Project Site is developed with a sidewalk, ornamental plants, a concrete wall, and a paved roadway that divides the project site from Twentynine Palms Highway and connects the east and west commercial developments.



Source: ESRI USA Topo Maps and World Topo Map 2025

Yucca Valley Dutch Bros Coffee Project

Figure 1. Project Location Map

0 345 690 Feet

N

Scale: 1:6,907

parcel

500-foot buffer

Project Site is within Yucca Valley, California, in San Bernardino County on the USGS North Yucca Valley 7.5-minute quadrangle map in Section 31 of Township 01 North and Range 06 East

Center Coordinate (Decimal Degrees):
Latitude: 34.1276048°N Longitude: -116.3958401°W

SOUTH ENVIRONMENTAL

Source: ESRI Aerial Map 2025

Yucca Valley Dutch Bros Project

Figure 2. Project Vicinity

parcel

500-foot buffer

0 185 370 Feet

N

Scale: 1:3,678

SOUTH ENVIRONMENTAL

1.1.2 Proposed Development

The Project proposes the construction and operation of an approximately 1,025-square-foot Dutch Bros Coffee restaurant with a dual-lane drive-through facility and associated site improvements. The drive-through is designed to accommodate 23 queued vehicles. In addition to on-site improvements, the Project also includes off-site roadway improvements consistent with the Town's circulation plans, including the future widening of Twentynine Palms Highway to an ultimate half-width of 67 feet along the Project frontage. The Project would incorporate approximately 10,350 square feet of landscaping and would retain 2,808 square feet of existing landscaping near Twentynine Palms Highway. All equipment and construction staging would occur within the boundaries of the Project Site. Current project plans are attached within Appendix D.

1.2 Methodology

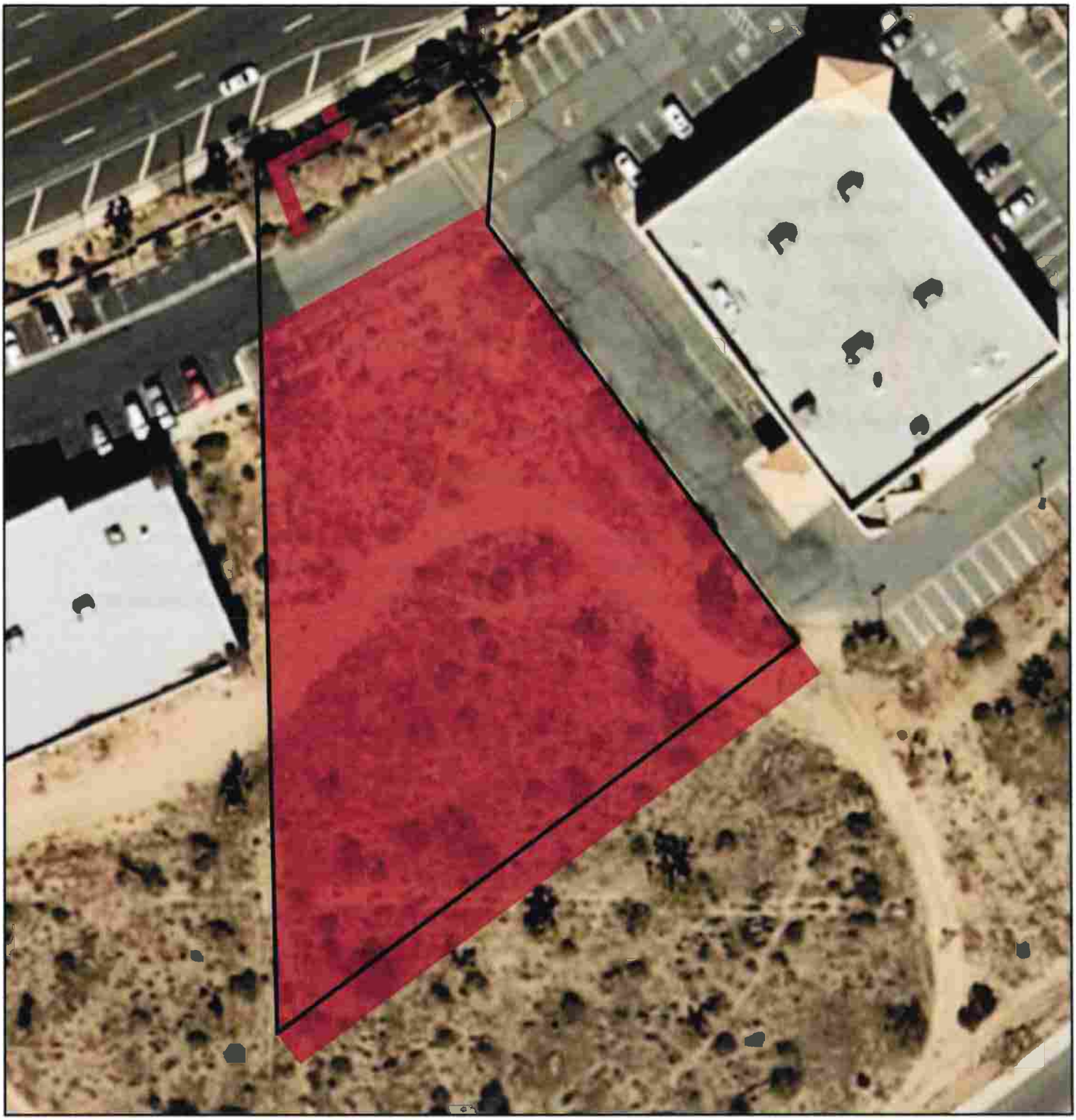
This biological resource assessment is based on information compiled through a reconnaissance survey and a literature review involving an assessment of appropriate reference materials and literature regarding the biological resources of the region.

1.2.1 Literature Review

The assessment of the project began with a review of literature relating to the natural resources — flora, fauna, and water resources — that are possibly within the study area and project site. The following were consulted:

Flora and Fauna

- The California Department of Fish and Wildlife (CDFW) California Natural Diversity Database (CNDDB) was reviewed to identify special-status plants and animals that have previously recorded in the United States Geological Survey (USGS) North Yucca Valley 7.5" quad in which the proposed development footprint is located, and the eight surrounding USGS 7.5" quads: Joshua Tree North, Joshua Tree South, Yucca Valley South, Bighorn Canyon, Goat Mountain, Rimrock, Morongo Valley, and Landers (CDFW 2025a).
- CDFW California Wildlife Habitat Relationships (CWHR) life history accounts and range maps (CDFW 2025b)
- United States Fish and Wildlife Service (USFWS) Environmental Conservation Online System (ECOS) Information for Planning and Consultation (IPaC) (USFWS 2025a)
- USFWS Designated and Proposed Critical Habitat GIS data (USFWS 2025b)
- California Native Plant Society (CNPS) online Inventory of Rare and Endangered Plants of California (CNPS 2025a)



Source: ESRI Aerial Map 2025

Yucca Valley Dutch Bros Project

Figure 3. Proposed Development

0 30 60 Feet

N

Scale: 1:628

Project Site

Project Footprint

SOUTH ENVIRONMENTAL

Water Resources

- National Hydrography Dataset (USGS 2025a)
- National Wetlands Inventory (USFWS 2025c)
- California Protected Areas Database (CPAD 2025)

Soil Resources

- US Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soils Database (USDA 2025)

1.2.2 Field Reconnaissance and Focused Joshua Tree Survey

South Environmental biologist Lucas South conducted a field reconnaissance on October 28, 2025 to record plants and animals observed on the site, characterize and map plant communities, and assess the potential for special-status species to occur. The findings described in the reports are cited in the Literature Review, and results are referenced throughout the analysis in this report. A focused survey for Joshua Trees was also conducted concurrently with the field reconnaissance and the survey report is attached in Appendix E.

2. Environmental Setting

2.1 Topography and Climate

The project site is within the Morongo Basin just south of the Little San Bernardino Mountains of the Transverse Ranges in southern California. Due to being within the High Desert of the Mojave, the region is arid with desert plains, rocky outcrops, and rugged hills with landmarks such as Bartlett Mountains to the northeast, Burnt Mountain to the south, Joshua Tree National Park to the east, and Water Canyon to the west. The Project Site is very flat, though a deep wash occurs in the west Study Area approximately 150-feet to the southwest. The highest elevation for the project site is approximately 3,248 ft. (990 m.) above mean sea level (amsl) near the southeast border. The lowest elevation for the project site is approximately 3,234 ft. (986 m.) amsl near the north border (USGS 2025). The climate in the region is hot and dry, with average summer high temperatures in the mid-90s and average winter lows in the mid 30s. Average yearly rainfall is approximately 4.8-inches, and the wettest months are December - January. There is almost no precipitation between April - July.

2.2 Soils and Surface Geology

Soils in the Study Area from the Online Web Soil Survey Mapper (USDA/NRCS 2025) are 100% Typic Torriorthents and Typic Haplargis, which occurs in fan aprons and is derived from igneous rock. This soil type is gravelly sandy loam, occurs at 2 to 8 percent slopes, and is somewhat excessively drained. The surface geology geologic unit for both the project site and study area contains older alluvium surficial sediments of sedimentary and volcanic rocks from the Pleistocene Epoch (USGS 2025b, Dibblee 1967).

2.3 Plants

A total of 41 plant species were identified on the Project Site and Study Area. The habit of the species consisted of trees, shrubs, succulents, perennial herbs, and annual herbs. A list of the species observed, and their California Rare Plant Rank (CRPR) is presented below in Table 1 (CNPS 2025a). Species listed with an asterisk are considered invasive by the California Invasive Plant Council (Cal-IPC 2025).

Table 1. List of Plant Species Observed at the Project Site and Study Area

Common name	Scientific name	On project site	CRPR	Federal/ State
small Philippine acacia	*Acacia confusa*	No	NR	--
flatspine bur ragweed	*Ambrosia acanthicarpa*	Yes	NR	--
common burrobush	*Ambrosia salsola*	Yes	NR	--
freckled milkvetch	*Astragalus lentiginosus*	Yes	NR	--
desert broom	*Baccharis sarothroides*	Yes	NR	--
*Asian mustard	*Brassica tournefortii*	Yes	NR	--
*cheatgrass	*Bromus tectorum*	No	NR	--
crimson bottlebrush	*Callistemon citrinus*	No	NR	--
*crimson fountain grass	*Cenchrus setaceus*	Yes	NR	--
palo verde	*Cercidium floridum* subsp. *Floridum*	No	NR	--
desert willow	*Chilopsis linearis*	Yes	NR	--
California croton	*Croton californicus*	Yes	NR	--
silver cholla	*Cylindropuntia echinocarpa*	Yes	NR	--
desert spoon	*Dasylirion wheeleri*	Yes	NR	--
sacred datura	*Datura wrightii*	No	NR	--
California jointfir	*Ephedra californica*	Yes	NR	--
Rough jointfir	*Ephedra aspera*	Yes	NR	--
Indian ricegrass	*Eriocoma hyenoides*	Yes	NR	--
yerba santa	*Eriodictyon californicum*	Yes	NR	--
California buckwheat	*Eriogonum fasciculatum*	No	NR	--
*redstem stork's bill	*Erodium cicutarium*	Yes	NR	--
broom snakeweed	*Gutierrezia sarothrae*	Yes	NR	--
*salt lover	*Halogeton glomeratus*	Yes	NR	--
big galleta	*Hilaria rigida*	Yes	NR	--
black walnut	*Juglans californica*	No	4.2	Endemic
tumbleweed	*Kali tragus* subsp. *Tragus*	Yes	NR	--
creosote	*Larrea tridentata*	Yes	NR	--
Texas ranger	*Leucophyllum frutescens*	Yes	NR	--
birdcage evening primrose	*Oenothera deltoides*	No	NR	--
*olive	*Olea europaea*	No	NR	--
beavertail cactus	*Opuntia basilaris*	No	NR	--
manybristle chinchweed	*Pectis papposa*	Yes	NR	--
pines	*Pinus* spp.	No	NR	--
velvet mesquite	*Prosopis velutina*	Yes	NR	--
rosemary	*Salvia rosmarinus*	No	NR	--
lotebush	*Sarcomphalus obtusifolius*	No	NR	--
cat claw acacia	*Senegalia greggii*	Yes	NR	--
desert globe mallow	*Sphaeralcea ambigua*	No	NR	--
woolly tidestromia	*Tidestromia lanuginosa*	No	NR	--

Common name	Scientific name	On project site	CRPR	Federal/ State
Joshua tree	*Yucca brevifolia*	Yes	NR	State Candidate
**=invasive species; NR=Not Ranked*				

2.4 Plant Communities and Land Cover

There are two land cover types and two plant communities in the study area and the project site. Each is shown in Figure 4 below and the acres of each is summarized in Table 2 below.

Table 2. Summary of Plant Communities on the Study Area and Project Site

Community or Cover Type	Acres on Study Area	Acres on Project Site	Acres Permanently Impacted by Project	Global / State Rank
Joshua Tree Woodland	9.83	0.88	0.88	G4/S3.2
Desert Willow Woodland	1.18	0	0	G4/S3
Developed/Ornamental	18.63	0.14	0	N/A
Ruderal	0.28	0	0	N/A
Total	**29.92**	**1.02**	**0.88**	-

- **Joshua Tree Woodland** (*Yucca brevifolia* Woodland Alliance) (CNPS 2025b) occurs on 9.83-acres of the Study Area and 0.88-acres of the Project Site. It has a global/state rarity ranking of G4/S3.2, which is considered a sensitive community in California. It is dominated by Joshua trees that form a canopy that is open to intermittent over an open shrub canopy containing other species such as common burrobrush, California ephedra, creosote bush, flatspine bur ragweed, and silver cholla, as well as occasional trees including desert willow and cat claw acacia. The herbaceous layer is also open to intermittent with perennial grasses and seasonal annuals observed such as crimson fountain grass, many-bristle chinchweed, and Asian mustard. The groundcover degrades this community with invasive and non-native, and the level of disturbance overall is very high from dirt roads that travel through the project site, illegal dumping of garbage, and the general trash and degradation from human presence associated with the adjacent Walgreens and Big 5 stores. The degraded community is unlikely to support special status species due to the level of disturbances and alterations from the typical natural community. A total of 0.88-acres of Joshua Tree Woodland would be permanently impacted by the proposed development.

Source: ESRI Aerial Map 2025

Yucca Valley Dutch Bros Coffee Project

Figure 4. Plant Communities and Land Cover

0 105 210 Feet

Scale: 1:2,175

N

Project Site

500-foot buffer

Community

Desert Willow Woodland

Developed/Ornamental

Joshua Tree Woodland

Ruderal

SOUTH ENVIRONMENTAL

- **Desert Willow Woodland** (*Chilopsis linearis* Woodland Alliance) (CNPS 2025b) occurs on 1.18-acre of the Study Area and 0-acre of the Project Site. It has a global/state rarity ranking of G4/S3, which is considered a sensitive community in California. This community occurs along and within a dry desert wash in the southwest Study Area. This plant community is dominated in the tree canopy by desert willow trees and shrubs that form an open canopy with other small trees such as cat claw acacia. The shrub layer includes species such as California buckwheat, California ephedra, creosote, and common burrobush. The herbaceous layer is sparse with native perennials such as big galleta and many-bristled chinchweed.

- **Developed/Ornamental** land cover occurred on 18.63-acres of the Study Area and 0.14-acres of the Project Site. Developed land does not have a rarity rating and is unable to support special status species. The developments included single-family houses, commercial developments, and paved roads, which landscaped plants. Among others, common plants observed in the developed areas included blue palo verde, Texas ranger, olive, rosemary, and California black walnut. A total of 0-acres of developed/ornamental land cover would be permanently impacted by the proposed development.

- **Ruderal** land cover occurred on 0.28-acres of the Study Area and is not on the Project Site. Ruderal communities do not have a community sensitivity rating. This land cover type occurs in the north Study Area surrounded by commercial developments. This land cover type was characterized by disturbed soils and a sparse covering of native and non-native annual and perennial herbs. Plant species were dominated by flatspine bur ragweed and tumbleweed. Other species observed included desert broom, desert willow, and Texas ranger.

2.5 Wildlife

Seven common desert wildlife species were observed in the project site and study area during the site visit and are shown in Table 3 below. Although few wildlife were observed during the site visit, most desert species are not active midday, and therefore many more species are expected to occupy the site.

Table 3. Summary of Wildlife Observed within the Study Area

Common name	Scientific name	Taxa	Status
Verdin	*Auriparus flaviceps*	Birds	None
Common raven	*Corvus corax*	Birds	None
Roadrunner	*Geococcyx californianus*	Birds	None
European house sparrow	*Passer domesticus*	Birds	None
California Ground squirrel	*Otospermophilus beecheyi*	Mammals	None

Common name	Scientific name	Taxa	Status
Say's phoebe	*Sayornis saya*	Birds	None
Mourning dove	*Zenaida macroura*	Birds	None

2.6 Special-Status Species

The literature analysis of the CNDDB, CNPS, and IPAC databases for special-status species with the potential to inhabit the project site resulted in 63 special-status species, including 34 plants and 29 animals. The list includes rare, threatened, endangered species at a federal and state level. In the case of plants, it also includes California Rare Plant Rank (CRPR) species with a classification of 1-4.

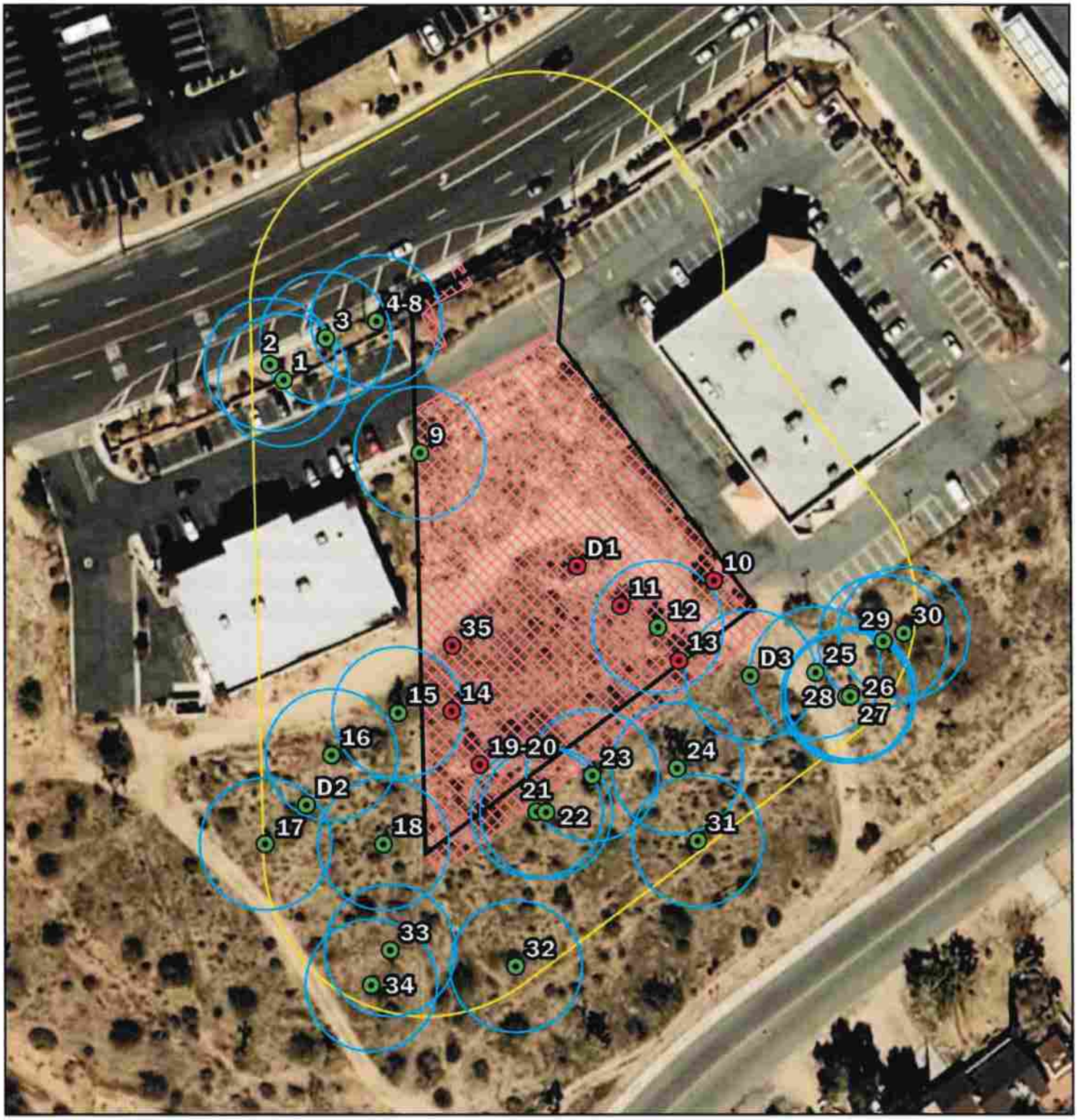
2.6.1 Special-Status Plants

During the field reconnaissance, western Joshua tree was observed throughout the site. Western Joshua tree is a Candidate species for listing under the CESA and is protected by the Western Joshua Tree Conservation Act. The 34 special-status plant species that CNDDB, CNPS, and IPAC identify as occurring in the region of the project and an assessment of their likelihood to inhabit the project site are presented in Appendix B. The Joshua Tree Woodland on the Project Site has heavy disturbance from non-native herbaceous plants and human activity such as dirt roads and illegal garbage dumping, which reduces the potential for special-status plants to occur on the Project Site. Based on the analyses in Appendix B, no other special-status plants have the potential to occur on the project site due to the high level of disturbance and ecological degradation, and none were observed during the survey.

Western Joshua Tree

Western Joshua tree (*Yucca brevifolia)* is a monocot that is a candidate species for listing under the CESA and is protected by the Western Joshua Tree Conservation Act. The species has a general habitat that includes Joshua tree woodland, montane chaparral, pinyon and juniper woodland, and Sonoran and Mojavean desert scrub. It has been recorded at elevations between 750-2,200 meters (2,461-7,218 feet).

Based on the findings of the Joshua Tree Survey Report in Appendix E, a total of 38 Joshua trees were identified in the survey area (within 100-feet of the project site). These are shown in Figure 5 below and summarized in Table 4. Of the 38 Joshua trees surveyed, 3 were Class A, 32 Class B, and 3 Class C. A total of 3 Joshua trees were dead (labeled D1-D3) and 35 were mature live trees. Of the mature live trees, 25 had fruits or flowers.



Source: ESRI Aerial Map 2025

Yucca Valley Dutch Bros Project

Figure 5. Joshua Tree Inventory

0 50 100 Feet

N

Scale: 1:991

- Joshua Trees to be Removed
- Joshua Trees to Remain
- 15m buffer
- Project Site
- Survey Area
- Project Footprint

SOUTH ENVIRONMENTAL

Table 4. Summary of Western Joshua Tree Inventory

Size Class (height)	# of Joshua Trees	Live	Dead	Mature	Fruits/Flowers	Within 15m of project	Removals
Class A <1m	3	3	0	0	0	0	0
Class B 1m-5m	32	29	3	27	22	19	8
Class C >5m	3	3	0	3	3	3	0
Total	**38**	**35**	**3**	**30**	**25**	**22**	**8**

2.6.2 Special-Status Wildlife

The 29 special-status animal species that CNDDB, CNPS, and IPAC identify as occurring in the region of the project and an assessment of their likelihood to inhabit the project site are presented in Appendix B. No special-status animal species were observed during the survey and the degradation of the Project Site from invasive plants, onsite disturbances, and adjacent development limits the potential for special status wildlife to occur. However, based on the analysis in Appendix B, 2 special-status animals have a moderate potential to occur on the project site due to the presence of suitable habitat, which are discussed below:

1. **Coast horned lizard** (*Phrynosoma blainvillii*) is a reptile that is a CDFW Species of Special Concern. This lizard frequents a wide variety of habitats, most commonly in lowlands along sandy washes with scattered low bushes for cover, open areas for sunning, patches of loose soil for burial, and an abundant supply of ants and other insects. There are six CNDDB records within the region of the project and the record nearest the Project Site is located .07 miles to the east. This species has a **moderate** potential to occur in the study area because it contains intact desert habitats and sandy washes with loose soils. This species is less likely to occur on the project site and is most likely to occur in the desert wash outside of the project site.

2. **Le Conte's thrasher** (*Toxostoma lecontei*) is a bird that is a CDFW Species of Special Concern and USFWS Bird of Conservation Concern. This species is primarily found in open desert wash, desert scrub, alkali desert scrub, and desert succulent shrub habitats. Le Conte's thrasher commonly nests in dense, spiny shrub or densely branched cactus in desert wash habitat 2 to 8 feet above the ground. There are twelve CNDDB records within the region of the project and the record nearest the project site is from 2010 and is located 3.31-miles to the east. This species has a **moderate** potential to occur in the study area because it contains desert wash and desert scrub habitats.

2.7 Sensitive Natural Communities

CDFW 2018 *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities* defines sensitive natural communities as those that are "of limited distribution statewide or within a county or region and are often vulnerable to environmental effects of projects." CDFW considers a natural community sensitive if it has a Global or State rarity rank of 1-3, which includes communities that are vulnerable (G3/S3), imperiled (G2/S2), and critically imperiled (G1/S1). CDFW uses the alliances and groups described in the California Natural Community List (CDFW 2025c) and the California Natural Communities List from A Manual of California Vegetation Online (CNPS 2025b) to characterize California's natural communities. The current global and state rarity rank for natural communities of California are listed in these resources.

Developed and disturbed areas do not qualify for CDFW rankings and are not considered sensitive plant communities. The Desert Willow Woodland in the study area has a Global rarity rank of G4 and a State rarity rank of S3; therefore, it is considered a sensitive natural community in California by the CDFW. The Joshua Tree Woodland in the study area has a Global rarity rank of G4 and a State rarity rank of S3.2, which is considered a sensitive natural community in California by the CDFW.

2.8 Protected Trees

The study area is within the incorporated town of Yucca Valley in San Bernardino County. According to the Town of Yucca Valley Code of Ordinances (Yucca Valley 2025), regulated native plants require a Plant Removal Permit, including the following:

- All species of the genus *Prosopis* (mesquites) two (2) inches or more in diameter or six (6) feet or more in height.
- All species yuccas (yucca, Mojave yucca, Our Lord's candle, etc.)
- Creosote Rings, ten feet or greater in diameter
- All Joshua trees (*Yucca brevifolia*)
- California Juniper
- Desert willow
- Pinon pine
- Palo verde
- Manzanita
- All plants protected or regulated by California Desert Native Plants Act

The study area contains western Joshua trees and desert willow.

2.9 Hydrology Features

According to the Environmental Protection Agency (EPA, 2025) the project site is located within Southern Mojave watershed (HUC8) and the Water Canyon subwatershed (HUC12). One unnamed and unmapped desert wash was observed in the Study Area approximately 200 feet southwest of the Project Site border. The wash is a dry streambed that hosts desert riparian plants, with a desert willow plant community. The exact jurisdiction of this wash is not determined however, it is likely under the jurisdiction of the CDFW and the Regional Water Quality Control Board. This feature was dry during the site visit though showed a clear ordinary high-water mark and a difference in vegetation type and soil substrate than the areas outside of the wash. The feature was several feet deep and hosted desert willow, cat claw acacia, California buckwheat, and common burrobush, among other native annuals and shrubs. This feature is an intact desert wash habitat and likely flows intermittently. There are no water features on the project site or impact areas.

2.10 Wildlife Movement Areas

The assessment of the potential for wildlife movement to and from the project site consisted of consulting the following resources:

- United States Fish and Wildlife Service (USFWS) Environmental Conservation Online System (ECOS) Information for Planning and Consultation (IPaC) (USFWS 2025a)
- USFWS Designated and Proposed Critical Habitat GIS data online (USFWS 2025b)
- GreenInfo Network, Park Information online (2025)
- California Protected Areas Database Map online (CPAD 2025)

Aerial photographs were used to assess the level of connectivity of large expanses of habitat to the Project Site. The foremost considerations were whether there was a direct connection of high-quality habitat to the site — without interference from development — and whether the connecting habitat is linked to large habitat tracts or protected habitats. During the South Environmental field visit, the Study Area was assessed for its potential use as a wildlife corridor or habitat linkage. The level of disturbance of the Study Area is by way of development that includes roads, houses, fences, and lighting. The Study Area was assessed for the presence of a corridor of linkage of habitat that connects the Study Area to adjacent and higher-quality habitat.

The Joshua Tree Woodland on the study area extends west and southwest beyond the Study Area boundary between further developed areas. This large undeveloped Joshua Tree woodland is bordered on all sides by developments such as roads and businesses and does not have connectivity to other open spaces or habitats. The Project Site is an endpoint of this community that is highly disturbed and bordered by large-scale commercial developments and major paved roadways. Any large open spaces or habitats are east of the Project Site across several roads and

lines of housing developments. Therefore, no wildlife corridors were found in the Study Area as there is no linkage to large habitats. The lack of connectivity limits the potential for special status plants and wildlife to populate the site from areas of high quality habitats. Therefore, the Project Site is not considered a wildlife movement corridor or habitat linkage area.

3. Impacts Analysis

For the purposes of this report, impacts to protected biological resources are analyzed within the context of the regulatory setting. Below is an overview of the federal, state, and local regulations pertaining to protected biological resources in the study area, and an analysis of impacts to those resources that may occur as a result of the proposed development follows.

3.1 Regulatory Setting

3.1.1 Federal Regulations

Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) protects individuals as well as any part, nest, or eggs of any bird listed as migratory. In practice, federal permits issued for activities that potentially impact migratory birds typically have conditions that require pre-disturbance surveys for nesting birds. In the event nesting is observed, a buffer area with a specified radius must be established, within which no disturbance or intrusion is allowed until the young have fledged and left the nest, or it has been determined that the nest has failed. If not otherwise specified in the permit, the size of the buffer area varies with species and local circumstances (e.g., presence of busy roads, intervening topography, etc.), and is based on the professional judgment of a monitoring biologist. A list of migratory bird species protected under the MBTA is published by USFWS.

3.1.2 California Regulations

California Environmental Quality Act (CEQA)

The California Environmental Quality Act (CEQA) is a statute that requires state and local agencies to identify the significant environmental impacts of their actions and to avoid or mitigate those impacts, if feasible. CEQA applies to certain activities of state and local public agencies. A public agency must comply with CEQA when it undertakes an activity defined by CEQA as a "project." A project is an activity undertaken by a public agency or a private activity which must receive some discretionary approval (meaning that the agency has the authority to deny the requested permit or approval) from a government agency which may cause either a direct physical change in the environment or a reasonably foreseeable indirect change in the environment.

An Initial Study (IS) is prepared when a proposed action is determined to be a "project" under CEQA. The IS is a checklist that asks specific questions about the project's level of environmental impacts in many categories, including biological resources. The checklist includes a series of

questions to determine the projects level of potential impacts in each of the categories. The CEQA Checklist includes the following questions regarding biological resources:

- *Would the project:*
    - *Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?*
    - *Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?*
    - *Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*
    - *Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?*
    - *Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance*
    - *Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?*

Potential level of impact choices includes: No Impacts, Less Than Significant Impact, Less Than Significant with Mitigation Incorporated, and Potentially Significant Impact. For projects that have no impact or less than significant impact a Negative Declaration is prepared, for those with Less Than Significant with Mitigation Incorporated prepare a Mitigated Negative Declaration, and for those with a Potentially Significant Impact prepare an Environmental Impact Report (EIR).

California Endangered Species Act

The California ESA mirrors the main tenets of the U.S. ESA with a few exceptions and is legislated through the Fish and Game Code, chapter 1.5, sections 2050-2115.5. One major difference is that under the California ESA, a species can be a "candidate" species for listing, a category that does not exist under the U.S. ESA. Similar to the U.S. ESA, Section 2080 of the Code prohibits the "import into this state, export out of this state, or take, possess, purchase, or sell within this state, any species, or any part or product thereof, that the commission determines to be an endangered species or a threatened species." The idea of "take" in terms of listed species is defined in Section 2086 of Code as "hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." In contrast to the U.S. ESA, the Code does not include the idea of "harass" or "harm" in the definition of take. The U.S. ESA uses Habitat Conservation Plans (HCPs) whereas the California ESA uses "Natural Community Conservation Planning (NCCP). Central tents of an NCCPS are to "promote coordination, effectively address cumulative impact concerns, and promote

conservation of un-fragmented habitat areas, promote multispecies and multi-habitat management". Importantly, if a species is listed both under the U.S. ESA and the California ESA, a "consistency determination" can be requested to the California Department of Fish and Wildlife requesting that the federal "take" complies with the California "take" regulations which would effectively avoid further deliberations for the take under the California ESA.

Porter-Cologne Water Quality Control Act

The Porter-Cologne Act requires the adoption of water quality control plans (basin plans) that give direction to managing water pollution in California. The basin plans get adopted and administered by the Regional Water Quality Control Board (RWQCB). The plans incorporate the beneficial uses of the waters of the State and then provide objectives that should be met to maintain and protect these uses. Along with the Regional Water Boards, the State Water Resources Board can issue and enforce permits containing waste discharge requirements to maintain clean surface water and groundwater. Each basin plan identifies the specific beneficial uses of water in their region for the past, present, and future. These basin plans also all have objectives for which the plan clearly states steps that are being taken or will be taken to meet the objectives. These objectives are created for the purpose of keeping the water clean and safe to use beneficially. The Regional Board has the authority to give out permits for the purpose of waste disposal or waste assimilation.

State of California Fish and Game Code Section 1600

Fish and Game Code Section 1602 outlines the Lake and Streambed Alteration Agreement (LSAA) permitting process, and states:

- An entity shall not substantially divert or obstruct the natural flow of, or substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake

Fish and Game Code Section 1602 requires any entity (defined as any person, State or local governmental agency, or public utility) to notify the CDFW before beginning any activity that will do one or more of the following:

- substantially divert or obstruct the natural flow of and river, stream, or lake, or
- substantially change or use any material from the bed, channel, or bank of, any river, stream, or lake, or
- deposit or dispose of debris, waste, or other material containing crumbled, flaked, or ground pavement where it may pass into any river, stream, or lake.

A permit, known as a Lake or Streambed Alteration Agreement, from CDFW is required to conduct any of the activities described above.

Western Joshua Tree Conservation Act

The Western Joshua Tree Conservation Act is the current legislation in the State of California for use in protection of the Joshua tree and was passed on 2023. Foremost, the legislation prohibits the importation, export, take, possession, purchase, or sale of any western Joshua tree in California unless authorized by CDFW. The Act currently supersedes the California Endangered Species Act (ESA) and authorizes CDFW to issue permits for the "take" of one or more western Joshua trees if the permittee meets specific conditions. Permittees have the opportunity to relocate a Joshua tree in areas impacted by development or pay a fee in lieu of conducting mitigation activities. The legislation also grants the CDFW the authority to issue permits for the removal of dead western Joshua trees and trimming of live western Joshua trees.

The legislation allow for agreements to be made between the CDFW and any county or city which limit the authority to permit the taking of a Joshua tree associated with developing single-family residences, multifamily residences, accessory structures, and public works projects. A similar agreement between the CDFW and a county or city can also be authorized to limit the authority to permit the removal of dead and trimming of live Joshua trees.

With this legislation, in-lieu fees collected will be deposited into the "Joshua Tree Conservation Fund" for appropriation to CDFW strictly with the goal of acquiring, conserving, and managing Joshua tree conservation lands and carrying out other project to conserve the species.

Additionally, the act mandates the CDFW with development and implementation of a Joshua tree conservation plan in collaboration with governmental agencies, California Native American Tribes, and the public. A draft of the plan must be presented by December 31, 2024, at a public meeting of the Fish and Game Commission for its review and approval. Finally, CDFW must produce annual reports assessing the conservation status of the western Joshua tree (State of California, 2023).

In cases of private development the following is a summary of important conservation measures under the Western Joshua Tree Conservation Act:

The Western Joshua Tree Conservation Act stipulates several measures to assist with the assessment of impacts to and mitigation for western Joshua tree in areas proposed for development. Permittees may mitigate loss or damage to trees by relocating them or by paying specified fees in lieu of conducting mitigation. Under the act, all in-lieu fees collected will be deposited into the Western Joshua Tree Conservation Fund for the purposes of acquiring, conserving, and managing western Joshua tree conservation lands and completing other activities to conserve the western Joshua tree.

Western Joshua Tree Conservation Plan

The Western Joshua Ttree Conservation Act requires the California Department of Fish and Wildlife (CDFW) to develop and implement a Western Joshua Tree Conservation Plan (Conservation Plan) in collaboration with the Commission, governmental agencies, California Native American tribes (Tribes), and the public (Fish & G. Code, § 1927.6, subd. (a)). The plan was approved and finalized in August 2025. The Conservation Plan provides guidelines for western Joshua tree conservation, criteria to help define effectiveness of management actions, monitoring of management outcomes, and a process of adaptive management to refine and improve the management actions over time. The management actions can be incorporated into project approvals by local, state, and federal government agencies that authorize projects or resource management programs in western Joshua tree's range in California.

The Conservation Plan describes the steps required to achieve the vision of conserving western Joshua tree and its habitat in California such that listing under CESA will not be needed. The Conservation Plan can be divided into two parts: The first part summarizes guiding concepts and currently available information, and the second part describes management actions and the implementation approach for conserving western Joshua tree and achieving the vision of the Conservation Plan.

Chapter 5 of the Conservation Plan describes Conservation Management Actions and Effectiveness Criteria, and specifically Section 5.2.1 is focused on Impact Avoidance and Minimization that is often associated with construction projects. According to the section, the first priority for conservation of western Joshua tree and its habitat is to avoid adverse impacts altogether. When complete avoidance cannot be achieved, efforts should be made to minimize impacts on western Joshua tree and its habitat, and the presence of tribal cultural monitors and a trained arborist to minimize these impacts are encouraged. Minimization may include efforts to reduce the number of trees and seeds taken; the area of habitat that is lost or degraded; the severity of impacts on individual trees; impacts on other organisms on which western Joshua tree depends; and indirect impacts on trees, seeds, habitats, and other ecologically related organisms.

The avoidance and minimization actions in this section could be voluntarily adopted and implemented by project proponents and land managers, incorporated into project approvals by local governments and regulatory agencies, or incorporated into voluntary, cooperative agreements between relevant agencies, organizations, and other parties. The Western Joshua Tree Conservation Act (WJTCA) requires the avoidance and minimization of impacts on western Joshua tree to the maximum extent practicable as a condition of obtaining a WJTCA incidental take permit (ITP) (Fish & G. Code, § 1927.3, subd. (a)(2)). WJTCA also states that the Conservation Plan shall include guidance for the avoidance and minimization of impacts on western Joshua trees and protocols for the successful relocation of western Joshua trees (Fish & G. Code, § 1927.6, subd. (a)).

The following Management Actions are Recommended for construction projects:

1. Avoid direct and indirect impacts by project design that retains healthy trees, buffer areas for remaining trees, limit pesticide application, avoid OHV use, and avoid overgrazing.
2. Minimize direct and indirect impacts by avoiding trees, relocating trees, collect and store seeds, and minimizing invasive plants.
3. Minimize impacts from wildlife and wildfire suppression.

State of California Fish and Game Code Section 3500

Section 3503.5 of the California Fish and Game Code states that it is "unlawful to take, possess, or destroy any birds in the order Falconiformes or Strigiformes (birds of prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto." Activities that result in the abandonment of an active bird of prey nest may also be considered in violation of this code. In addition, California Fish and Game Code, Section 3511 prohibits the taking of any bird listed as fully protected, and California Fish and Game Code, Section 3515 states that is it unlawful to take any non-game migratory bird protected under the MBTA.

California Migratory Bird Protection Act

The California Migratory Bird Protect Act (MBPA) was enacted in September 2019 to reinforce the MBTA at the state level. The Act states:

- "It is unlawful to take or possess any migratory nongame bird as designated in the federal Migratory Bird Treaty Act (16 U.S.C. Sec. 703 et seq.), or any part of a migratory nongame bird described in this section, except as provided by rules and regulations adopted by the United States Secretary of the Interior under that federal act." This section became operative starting on January 20, 2025.

California Desert Native Plants Act

The purpose of the CDNPA is to protect certain species of California desert native plants from unlawful harvesting on both public and privately owned lands. The CDNPA only applies within the boundaries of Imperial, Inyo, Kern, Los Angeles, Mono, Riverside, San Bernardino, and San Diego Counties. Within these counties, the CDNPA prohibits the harvest, transport, sale, or possession of specific native desert plants under many circumstances unless a person has a valid permit or wood receipt, and the required tags and seals. The appropriate permits, tags and seals must be obtained from the sheriff or commissioner of the county where collecting will occur, and the county will charge a fee

3.1.3 Local Regulations

Town of Yucca Valley Joshua Tree Ordinance

This document is an addendum to the Town's General Plan Update certified environmental impact report (EIR), State Clearinghouse No. 2012111021, to address the Town's proposal to enact an urgency ordinance to establish regulations implementing the California Fish and Game Commission's Special Order relating to the take of western Joshua trees during the California Endangered Species Act (CESA) candidacy period and to remove the western Joshua tree from the Town's list of regulated desert native plants during the period the ordinance is effective, by adding new Chapter 9.56 to and amending Sections 9.07.130, 9.09.050 and 9.10.040 of the Town's Development Code (Proposed Project or Urgency Ordinance).

The temporary take authorization and related mitigation provisions of Urgency Ordinance are limited in scope and only apply to the three project types listed in and covered by the Special Order. Specifically, the temporary take authorization is limited to the Town' s approval of single-family residences, accessory structures, and certain public works projects defined by the Special Order as:

- Single Family Residence: Single Family Residence means a single detached building that has been or will be constructed and used as living facilities, including provisions for sleeping, eating, cooking, and sanitation as required by the California Building Code for not more than one household. Nothing in this section shall be construed to authorize take of western Joshua tree for a subdivision or other development that includes more than one single-family residence.
- Accessory Structure: Accessory Structure means a subordinate structure, the use of which is incidental to an existing or contemporaneously constructed single-family residence, and includes: an accessory dwelling unit, addition to an existing single-family residence, garage, carport, swimming pool, patio, greenhouse, storage shed, gazebo, septic tank, sewer connection, solar panels, or gravel or paved driveway.
- Public Works Project: Public Works Project means a project for the erection, construction, alteration, maintenance, or repair, of any public structure, building, or road.

Yucca Valley Municipal Code Chapter 9.56 (Removal of Joshua Tree)

The purpose of this Chapter is to establish permitting standards and process for the issuance of take permits for the Western Joshua Tree as authorized pursuant to the Special Order approved by the California Fish and Game Commission pursuant to Fish and Game Code section 2084 on December 10, 2020 ("Special Order"). The Special Order was subsequently approved by the Office of Administrative Law, and went into effect on January 7, 2021. The requirements set forth in this Chapter are intended to protect the public's health, safety, and welfare by ensuring that take

permits for the Western Joshua Tree are only issued consistent and compliant with the Special Order. (Ord. 291, 1-19-2021). The Planning Commission may authorize the take of western Joshua tree associated with developing single-family residences, accessory structures, and public works projects concurrent with its approval of the project.

Yucca Valley Native Plant Ordinance

The Yucca Valley Native Plant Ordinance was adopted by the Town of Yucca Valley in 2014 and was codified into the Town's Development Code Section 9.09.050 for commercial zoned parcels. The Ordinance stipulates that commercial development projects shall be allowed to transplant on and off site and to remove all regulated desert native plants from their native locations within the property boundaries, pursuant to the development standards and requirements. Regulated desert native plants for all commercial land development projects, include the following: Joshua tree (*Yucca brevifolia*), Mojave yucca (*Yucca schidigera*), Parry's nolina (*Nolina parryi*), California juniper (*Juniperus californica*), Our Lord's candle (*Yucca whipplei*), and Pinon pine (*Pinus monophylla*).

3.2 Project Impacts

3.2.1 Impacts to Plant Communities and Sensitive Natural Communities

As shown in Figure 4 and summarized in Table 2, the project would permanently remove 0.88 acre of Joshua Tree Woodland. Joshua Tree Woodland is considered a sensitive natural community by CDFW based on the state rarity ranking of 3.2. The Joshua Tree Woodland community is heavily disturbed by dirt roads/paths, illegal dumping, invasive plants, and adjacent developments; however, it still has some potential to support special status wildlife such as coast horned lizard and Le Conte's thrasher. Impacts to sensitive natural communities and habitat for special-status species can be considered significant according to CEQA but 0.88 acre is a minor amount of Joshua Tree Woodland and it is highly disturbed. The project must compensate for the loss of individual Joshua Trees per the Western Joshua Tree Conservation Act as describe in Mitigation Measure 2 in Section 3.2.3. Paying into the fund and protecting adjacent Joshua trees and Joshua Tree Woodlands surrounding the project site would ensure there is compensation for the loss of 0.88 acre from the project footprint. The in lieu fee program described in Mitigation Measure BIO-2 would result in the conservation, restoration, or protection of Joshua trees and Joshua Tree Woodlands into perpetuity. With the implementation of that mitigation the project impacts to 0.88 acre of disturbed Joshua Tree Woodland would be reduced to a level that is considered less than significant per the thresholds of CEQA.

3.2.2 Impacts to Nesting Birds and Raptors

The proposed development would require potential removal of trees, shrubs, and herbaceous plants in the landscaping that could provide potential nesting habitat for birds and raptors protected by the MBTA, MBPA, and the Fish and Game Code, including special-status birds such as Le Conte's thrashers. If present at the time of vegetation removal, active nests, eggs, or young could be destroyed or otherwise disturbed to a point at which the young do not survive, which would be a violation of the MBTA, MBPA, and the Fish and Game Code. In addition, indirect impacts from noise or vibration has the potential to disturb an active bird nest that may occur in adjacent landscaping to the point of failure if the nest is within immediate proximity to project activities, and this would also be a violation of the MBTA and Fish and Game Code. To avoid impacts to active bird or raptor nests, eggs, or young, preconstruction nesting bird surveys and monitoring is required per the MBTA and Fish and Game Code as described in Mitigation Measure BIO-1.

Mitigation Measure BIO-1 - Preconstruction Nesting Bird and Raptor Survey

- If possible, ground disturbing activities and vegetation removal should be timed to occur between September 1 – January 31, which is outside the bird and raptor nesting season.

- If ground disturbing activities or vegetation removal (including tree trimming) are scheduled between February 1 – August 31, which is the bird nesting season, a preconstruction survey for nesting birds should be conducted within 72 hours prior to construction activities. The survey should be conducted by a qualified biologist with prior experience conducting nesting bird surveys for construction projects. The study area should include the affected area and suitable habitat within a 500-foot buffer, or a buffer size determined by the qualified biologist based on level of proposed disturbance and access. If no active nests are found, no additional measures are required.

- If active nests are found the biologist will map the location and document the species and nesting stage. A no-work buffer will be established around the active nest as determined by the qualified biologist and based on the species' sensitivity to disturbance and the type and duration of the disturbance. Typical buffers would be 300-feet for songbirds, 500-feet for raptors and special-status species, but it can be determined based on the conditions on the site and recommendations of the qualified biologist. No construction activities shall occur within the no-work buffer until the biologist has determined the nest is no longer active.

3.2.3 Impacts to Special-Status Plants

Western Joshua tree occurs in the project area, and no other special-status plants are expected to occur due to the level of disturbances in the plant community. There are 22 Joshua trees within 15-meters of the proposed project footprint and 8 of those would be removed by the project because they are within the development footprint. Removals include 0 Class A, 8 Class B (#10, #11, #13, #14, #19, #20, #35, D1), and 0 Class C. An additional 2 Joshua trees (#9 and #12) are within the project site but will remain within landscaping after the project is built, and these would be heavily encroached into the 15 meter buffer by development. As shown in the Site Plan in Appendix C, these Joshua trees will be fenced during construction of the project to protect them from potential inadvertent impacts. Another 12 Joshua trees (#4-#8, #15, #18, #21-#24, D3) are outside the project site but will be encroached within a 15 meter buffer by the project construction. Protective fencing shown in the Site Plan in Appendix C will be installed between these Joshua trees and the project site during construction to avoid inadvertent impacts to these trees.

Overall the population of Joshua trees within the survey area is healthy, with very few dead trees and a mix of size classes and observations of fruits and flowers indicate that the Joshua trees are regenerating naturally on the site. The number of removals proposed by the project is 18% of the number surveyed, however, there are numerous other Joshua trees surrounding the survey area that are contiguous plant communities with that found on the site, and the relative number of removals to those in the region is very small. The removal of 8 Joshua trees is insignificant in relation to the number that are found in the immediate area. These findings are in consideration of the guidelines and recommendations from the Western Joshua Tree Conservation Plan impacts avoidance section. To reduce the potential impacts to a less than significant level per the thresholds of CEQA the project will implement Mitigation Measure BIO-2 below that includes permitting for the removal of the Joshua trees and protected the remaining trees.

Mitigation Measure BIO-2 – Western Joshua Tree Permitting and Protection

Due to the proposed removal of eight (8) Joshua trees for the project, it will require a permit from the CDFW prior to removing the trees. To obtain the permit the applicant must complete a permit application and submit the application and Joshua tree inventory to the CDFW Region 6 Office via the online permitting system. This permit will require coordination with both the County of San Bernardino and CDFW to determine the number of Joshua trees that the agencies would require for transplanting to areas outside of the development. However, there is an in-lieu fee program that allows for a fee-based mitigation for removal of Joshua trees and these same mitigation fees could be applied to all of the Joshua trees that are encroached within 15-meters as determined by the agencies. Therefore, these estimated fees are subject to change per the requirements of the permitting agencies following an assessment of the project impacts to Joshua trees. The 2025 Western Joshua Tree Conservation Act Incidental Take Permit annual mitigation

fees for the proposed removal of 8 Joshua trees within the standard fee area is a total of $4,072.00 as follows:

- 0 Class A trees x $346.00 = $0.00
- 8 Class B trees x $509.00 = $4,072.00
- 0 Class C trees x $2,544.75 = $0.00

Joshua Tree Avoidance During Construction

- South Environmental recommends installing temporary protective fencing between the project workspace and each Joshua tree during construction of the project. The fencing would be high-visibility fencing placed at a minimum 15-meter buffer zone prior to start of construction (or at the distance that is permitted for trees closer to the site). No work or project activities shall occur within the fenced area and all work shall occur outside of the proposed Joshua tree buffers. Fencing would help prevent compaction and/or contamination of soil and root zone.
- During construction, heavy equipment and vehicles shall be operated in accordance with standard Best Management Practices (BMPs). For example, all equipment used in the workspace shall be properly maintained such that no leaks of oil, fuel, or residues will take place. Provisions shall be in place to remediate any accidental spills. Implementation of the BMPs will help minimize the potential for impact to Joshua trees both within and outside the Joshua tree buffer zones.
- Night work should be avoided to ensure no disturbance of pollinators or photoperiods for the remaining Joshua trees.

3.2.4 Impacts to Special-Status Wildlife

Based on the analysis in this report coast horned lizard and Le Conte's thrasher have the potential to occur within the Joshua Tree Woodland and Desert Willow Woodland habitats on the Project Site and Study Area.

Coast Horned Lizard

Coast horned lizard have the potential to occur on the project site if it is present within the development area during construction activities they could be crushed and killed or injured. However, the habitat on the site is disturbed and of lower ecological value as a result, and coast horned lizard is more likely to occur in the desert wash outside of the project footprint. The potential for the species to be directly impacted by the project is low as it is has a low potential

to occur at this area relative to the desert wash and it is highly disturbed at the urban interface. Coast horned lizard direct impacts would be low as a result. In addition, the loss of 0.88 acre of disturbed Joshua Tree Woodland that is potential habitat for coast horned lizard is less than significant as it is a very small area that is isolated and between existing developments at the urban interface. This small area is a minor fraction of the available habitat that would remain in the immediate area, including the much higher value habitat within the desert wash 200-feet away from the project as well as in the overall range of the species. In addition, the implementation of Mitigation Measure BIO-2 would ensure that the loss of Joshua trees and Joshua Tree Woodland habitat would be mitigated. For these reasons the project impacts to coast horned lizard would be considered less than significant per the thresholds of CEQA.

Le Conte's Thrasher

Le Conte's thrasher is a CDFW Species of Special Concern that has the potential to nest and forage on the project site. The potential impacts to 0.88 acre of disturbed habitat is less than significant as it is a minor fraction of what would remain available in the immediate area and within the entire species range. To avoid direct and indirect impacts to Le Conte's thrasher birds, Mitigation Measure BIO-1 regarding nesting bird and raptor surveys is recommended. With the implementation of the mitigation measure the project impacts to Le Conte's thrasher would be reduced to a level that is less than significant according to CEQA.

3.2.5 Impacts to Water Resources

One jurisdictional feature, a desert wash, occurs in the Study Area approximately 200 feet southwest of the Project Site and outside of the project impact areas. Since project impacts are limited to the Project Site it is not expected for the proposed project to impact the wash directly. Temporary Impacts would not occur from the project as temporary staging and construction equipment will occur on the Project Site outside of the wash, at a distance greater than 200-feet. Considering the large distance between the project site and the wash, and the position of the project site between two existing large commercial development, the project would have no indirect impacts on the wash. Therefore, no impacts to water resources would result from the project.

3.2.6 Impacts to Protected Trees

The study area contains mature western Joshua trees, which are all regulated trees that may require permits before removal under the Yucca Valley Code of Ordinances. The velvet mesquite trees are located outside of the project footprint and would not be impacted by the project as a result. The project will remove 8 Joshua trees as described previously and propose to permit the impacts with Mitigation Measure BIO-2. With the implementation of Mitigation Measure BIO-2 the project would be in compliance with the Ordinance.

3.2.7 Impacts to Wildlife Movement Corridors and Habitat Linkages

Based on the analysis in this report the Project Site was determined not to be within a wildlife movement area or habitat linkage due to the surrounding disturbances and isolated nature of the Joshua Tree Woodland. Therefore, the project would have no impact on wildlife movement corridors and habitat linkages

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Appendix A

Photograph Log

Image 1.) View of the landscaped and developed area at the north of the Project Site, connecting the adjacent commercial developments.

Image 2.) View of the Project Site from the access road, featuring Joshua tree woodlands and native shrubs.

Image 3.) Depicts a large burrow found on the Project Site.

Image 4.) Depicts the Project Site from the dirt road in the middle. Housing developments can be seen in the background.

Image 5.) View of Balsa Avenue facing northeast, within the south Study Area. Housing developments can be seen on the right, Joshua Tree Woodland on the left.

Image 6.) View of the dry desert wash in the southwest Study Area, featuring Desert Willow Woodland.

Image 7.) View of the Project Site frontage along 29 Palms Highway facing west, featuring native and ornamental trees.

Image 8.) View of a ruderal, undeveloped area within the north study area, found within an outdoor mall.

Appendix B

Special-Status Species Analysis

December 2025

Special-Status Species

Special-status species are those plants and animals that, because of their recognized rarity or vulnerability to various causes of habitat loss or population decline, are recognized by federal, state, or other agencies as under threat from human-associated developments. Some of these species receive specific protection that is defined by federal or state endangered species legislation. Others have been designated as special-status based on adopted policies and expertise of state resource agencies or organizations with acknowledged expertise, or policies adopted by local governmental agencies such as counties, cities, and special districts to meet local conservation objectives. Special-status species include:

- Plants or wildlife listed or proposed for listing as threatened or endangered, or are candidates for possible future listing as threatened or endangered, under the federal Endangered Species Act or the California Endangered Species Act;
- Plants or wildlife that meet the definitions of rare or endangered under CEQA Guidelines Section 15380.
- Plants or wildlife covered under an adopted NCCP/HCP;
- Plants considered by the California Native Plant Society (CNPS) to be rare, threatened, or endangered (List 1A, 1B and 2 plants) in California;
- Plants listed by the CNPS as plants in which there is limited information about distribution (List 3);
- Plants listed as rare under the California Native Plant Protection Act (Fish and Game Code 1900 et seq.);
- Wildlife designated by CDFW as species of special concern;
- Wildlife "fully protected" in California (California Fish and Game Code Sections 3511, 4700, and 5050); and
- Wildlife protected by the Migratory Bird Treaty Act (MTBA).

Federally-Protected Status

All references to Federally-protected species in this BRA include the most current published status or candidate category to which each species has been assigned by USFWS. For purposes of this assessment the following acronyms are used for Federal status species, as applicable:

FE Federally-listed as Endangered
FT Federally-listed as Threatened
FPE Federally proposed for listing as Endangered
FPT Federally proposed for listing as Threatened
FPD Federally proposed for delisting
FC Federal candidate species (former C1 species)

State-Protected Status

For the purposes of this BRA, the following acronyms are used for State status species, as applicable:

SE State-listed as Endangered
ST State-listed as Threatened
SR State-listed as Rare
SCE State candidate for listing as Endangered
SCT State candidate for listing as Threatened
SFP State Fully Protected
SSC California Species of Special Concern

California Rare Plant Rank

The CNPS is a private plant conservation organization dedicated to the monitoring and protection of special-status species in California. CNPS has compiled an inventory comprised of the information focusing on geographic distribution and qualitative characterization of Rare, Threatened, or Endangered vascular plant species of California (CNPS 2018). The list serves as the candidate list for listing as Threatened and Endangered by CDFW. CNPS has developed six categories of rarity known as the California Rare Plant Rank (CRPR), of which Ranks 1A, 1B, 2A, and 2B are particularly considered sensitive:

Rank 1A Presumed extinct in California.
Rank 1B Plants Rare, Threatened, or Endangered in California and elsewhere.
Rank 2A Presumed extinct in California, but more common elsewhere.
Rank 2B Plants Rare, Threatened, or Endangered in California, but more common elsewhere.
Rank 3 Plants about which we need more information – a review list.
Rank 4 Plants of limited distribution – a watch list.

The CNPS recently added "threat ranks" which parallel the ranks used by the CNDDB. These ranks are added as a decimal code after the CNPS List (e.g., Rank 1B.1). The threat codes are as follows:

.1 Seriously threatened in California (over 80% of occurrences threatened/high degree and immediacy of threat);

.2 Moderately threatened in California (20-80% occurrences threatened);

.3 Not very threatened in California (<20% of occurrences threatened or no current threats known).

Potential to Occur Assessment

Special-status species that **present** or are **likely** (high or medium potential) to occur within the parcel are a based on one or more of the following:

- the direct observation of the species within the parcel during any field surveys;
- a record reported in the CNDDB, CNPS, or IPAC; and
- the parcel is within known distribution of a species and contains appropriate habitat.

Special-status species that are **unlikely** (low potential) to occur are based on one of the following:

- the parcel has the general habitat types but lacks necessary habitat elements such as suitable microhabitat or soils; or
- the parcel is outside the known elevation range or distribution of the species, and has otherwise suitable habitats;

Special-status species that have no potential to occur on the parcel are labeled as **none** due to the absence of suitable habitat.

Special-Status Animals

Scientific Name	Common Name	Taxonomic Group	Federal Listing	State Listing	Other Status	General Habitat	Microhabitat	Potential to Occur on Study Area
Anniella stebbinsi	Southern California legless lizard	Reptiles	None	None	CDFW_SSC-Species of Special Concern | USFS_S-Sensitive	Generally south of the Transverse Range, extending to northwestern Baja California. Occurs in sandy or loose loamy soils under sparse vegetation. Disjunct populations in the Tehachapi and Piute Mountains in Kern County.	Variety of habitats; generally in moist, loose soil. They prefer soils with a high moisture content.	**None:** Study Area lacks habitat for this species.
Antrozous pallidus	pallid bat	Mammals	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | USFS_S-Sensitive	Deserts, grasslands, shrublands, woodlands and forests. Most common in open, dry habitats with rocky areas for roosting.	Roosts must protect bats from high temperatures. Very sensitive to disturbance of roosting sites.	**Low:** Study Area contains woodland and desert wash habitats, though no rocky areas for roosting sites are available.
Asio otus	long-eared owl	Birds	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | USFWS_BCC-Birds of Conservation Concern	Riparian bottomlands grown to tall willows and cottonwoods; also, belts of live oak paralleling stream courses.	Require adjacent open land, productive of mice and the presence of old nests of crows, hawks, or magpies for breeding.	**None:** Study Area lacks habitat for this species.
Astur cooperii	Cooper's hawk	Birds	None	None	CDFW_WL-Watch List | IUCN_LC-Least Concern	Woodland, chiefly of open, interrupted or marginal type.	Nest sites mainly in riparian growths of deciduous trees, as in canyon bottoms on river flood-plains; also, live oaks.	**None:** Study Area lacks preferred habitats
Athene cunicularia	burrowing owl	Birds	None	Candidate Endangered	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | USFWS_BCC-Birds of Conservation Concern	Open, dry annual or perennial grasslands, deserts, and scrublands characterized by low-growing vegetation.	Subterranean nester, dependent upon burrowing mammals, most notably, the California ground squirrel.	**Low:** Study Area contains habitat and cover sites, such as burrows but this species is not known to occur in Yucca Valley and has not been observed there before. The nearest records in the CNDDB are 6 miles to the northwest, and there are no other records in the region on this side of the mountains. The

Scientific Name	Common Name	Taxonomic Group	Federal Listing	State Listing	Other Status	General Habitat	Microhabitat	Potential to Occur on Study Area
								project site is also between two existing developments and lacks a lot of foraging area on the project site itself. It is highly unlikely that this species would occur based on known range of the species and the limited ability to forage at the project site due to adjacent developments.
Bombus crotchii	Crotch's bumble bee	Insects	None	Candidate Endangered	IUCN_EN-Endangered	Coastal California east to the Sierra-Cascade crest and south into Mexico.	Food plant genera include Antirrhinum, Phacelia, Clarkia, Dendromecon, Eschscholzia, and Eriogonum.	**Low:** Study Area contains habitat and some preferred food plants but is just outside of the known range for this species.
Chaetodipus fallax pallidus	pallid San Diego pocket mouse	Mammals	None	None		Desert border areas of San Diego, Riverside, San Bernardino, and Los Angeles counties in desert wash, desert scrub, desert succulent scrub, pinyon-juniper, etc.	Sandy, herbaceous areas, usually in association with rocks or coarse gravel.	**Low:** Desert washes occur on the Study Area, though they are not rocky. There are no rocky or coarse gravelly areas on the project site or Study Area and there is a low potential for this species to occur as a result.
Crotalus ruber	red-diamond rattlesnake	Reptiles	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | USFS_S-Sensitive	Chaparral, woodland, grassland, and desert areas from coastal San Diego County to the eastern slopes of the mountains.	Occurs in rocky areas and dense vegetation. Needs rodent burrows, cracks in rocks or surface cover objects.	**Low:** Study Area contains woodland and rodent burrows, however lacks microhabitat.
Eremarionta morongoana	Morongo (=Colorado) desertsnail	Mollusks	None	None	IUCN_NT-Near Threatened	Found in the eastern San Bernardino Mountains, the Little San Bernardino Mountains, and Mecca Hills along the the edge of the Coachella Valley and southern Mojave Desert.	Occur in rockslides with deep talus surrounded by desert scrub, or under beds of fallen palm fronds where tumbled rocks are present at palm oases.	**None:** Study Area lacks habitat for this species.
Gopherus agassizii	desert tortoise	Reptiles	Threatened	Endangered	IUCN_CR-Critically Endangered	Most common in desert scrub, desert wash, and Joshua tree habitats; occurs in	Require friable soil for burrow and nest construction. Creosote bush habitat with large	**Low:** Study Area contains both habitat and microhabitat for this species but no burrows were observed, the habitat is degraded,

Scientific Name	Common Name	Taxonomic Group	Federal Listing	State Listing	Other Status	General Habitat	Microhabitat	Potential to Occur on Study Area
						almost every desert habitat.	annual wildflower blooms preferred.	and habitat is isolated from areas where tortoise could form a home range.
Icteria virens	yellow-breasted chat	Birds	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Summer resident; inhabits riparian thickets of willow and other brushy tangles near watercourses.	Nests in low, dense riparian, consisting of willow, blackberry, wild grape; forages and nests within 10 ft of ground.	**None:** Study Area lacks riparian areas.
Lasiurus cinereus	hoary bat	Mammals	None	None	IUCN_LC-Least Concern	Prefers open habitats or habitat mosaics, with access to trees for cover and open areas or habitat edges for feeding.	Roosts in dense foliage of medium to large trees. Feeds primarily on moths. Requires water.	**None:** Study Area lacks habitat for this species.
Lasiurus xanthinus	western yellow bat	Mammals	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Found in valley foothill riparian, desert riparian, desert wash, and palm oasis habitats.	Roosts in trees, particularly palms. Forages over water and among trees.	**Low:** Study Area contains desert wash habitats, however, no consistent water or palm trees are available.
Myiarchus tyrannulus	brown-crested flycatcher	Birds	None	None	CDFW_WL-Watch List | IUCN_LC-Least Concern	Inhabits desert riparian areas along the Colorado River, as well as other desert oases and riparian areas NW to Victorville.	Requires riparian thickets, trees, snags, and shrubs for foraging perches, nesting cavities, and cover.	**None:** Study Area lacks habitat for this species.
Neotoma lepida intermedia	San Diego desert woodrat	Mammals	None	None	CDFW_SSC-Species of Special Concern	Coastal scrub of Southern California from San Diego County to San Luis Obispo County.	Moderate to dense canopies preferred. They are particularly abundant in rock outcrops, rocky cliffs, and slopes.	**None:** Study Area lacks habitat for this species.
Ovis canadensis nelsoni	desert bighorn sheep	Mammals	None	None	BLM_S-Sensitive | CDFW_FP-Fully Protected | USFS_S-Sensitive	Widely distributed from the White Mtns in Mono Co. to the Chocolate Mts in Imperial Co.	Open, rocky, steep areas with available water and herbaceous forage.	**None:** Study Area lacks habitat for this species.
Paranomada californica	California cuckoo bee	Insects	None	None			Known only from two locations in San Bernardino County; the type locality near Yucca Valley, and a 1971 collection from 9.5 miles NW of Pioneertown, on	**Low:** Flowering for foraging occur on the Study Area. The project site occurs near the previous records of this species. However, the site is degraded and of low ecological value for this species.

Scientific Name	Common Name	Taxonomic Group	Federal Listing	State Listing	Other Status	General Habitat	Microhabitat	Potential to Occur on Study Area
							Burns Canyon Rd (CNDDB 2006).	
Parnopes borregoensis	Borrego parnopes cuckoo wasp	Insects	None	None		Known from San Diego, San Bernardino, and Inyo counties.	Desert dry washes and core habitats for desert tortoises.	**Low:** Study Area contains dry desert washes and suitable tortoise habitat. The site is degraded and not considered core habitat for desert tortoise.
Perognathus longimembris bangsi	Palm Springs pocket mouse	Mammals	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern	Desert riparian, desert scrub, desert wash and sagebrush habitats. Most common in creosote-dominated desert scrub.	Rarely found on rocky sites. Occurs in all canopy coverage classes.	**Low:** Study Area occurs outside of the species distribution.
Phrynosoma blainvillii	coast horned lizard	Reptiles	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Frequents a wide variety of habitats, most common in lowlands along sandy washes with scattered low bushes.	Open areas for sunning, bushes for cover, patches of loose soil for burial, and abundant supply of ants and other insects.	**High:** Study Area contains both habitat and microhabitat for this species.
Piranga rubra	summer tanager	Birds	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Summer resident of desert riparian along lower Colorado River, and locally elsewhere in California deserts.	Requires cottonwood-willow riparian for nesting and foraging; prefers older, dense stands along streams.	**none:** Willow desert wash habitat occurs on the Study Area, but the stands are not dense or along the Colorado River.
Pyrocephalus rubinus	vermilion flycatcher	Birds	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	During nesting, inhabits desert riparian adjacent to irrigated fields, irrigation ditches, pastures, and other open, mesic areas.	Nest in cottonwood, willow, mesquite, and other large desert riparian trees.	**None:** Study Area is not adjacent to irrigated areas.
Setophaga petechia	yellow warbler	Birds	None	None	CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in Cascades and Sierra Nevada.	Frequently found nesting and foraging in willow shrubs and thickets, and in other riparian plants including cottonwoods, sycamores, ash, and alders.	**None:** Study Area lacks habitat for this species.
Taxidea taxus	American badger	Mammals	None	None	CDFW_SSC-Species of Special Concern |	Most abundant in drier open stages of most shrub, forest, and	Needs sufficient food, friable soils and open, uncultivated ground.	**None:** Lack of large open rangeland.

Scientific Name	Common Name	Taxonomic Group	Federal Listing	State Listing	Other Status	General Habitat	Microhabitat	Potential to Occur on Study Area
					IUCN_LC-Least Concern	herbaceous habitats, with friable soils.	Preys on burrowing rodents. Digs burrows.	
Toxostoma bendirei	Bendire's thrasher	Birds	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_VU-Vulnerable | USFWS_BCC-Birds of Conservation Concern	Migratory; local spring/summer resident in flat areas of desert succulent shrub/Joshua tree habitats in Mojave Desert.	Nests in cholla, yucca, palo verde, thorny shrub, or small tree, usually 0.5 to 20 feet above ground.	**Low:** Study Area contains both habitat and microhabitat for this species but is outside the typical range and the habitat is degraded and of low value due to isolation.
Toxostoma lecontei	Le Conte's thrasher	Birds	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern | USFWS_BCC-Birds of Conservation Concern	Desert resident; primarily of open desert wash, desert scrub, alkali desert scrub, and desert succulent scrub habitats.	Commonly nests in a dense, spiny shrub or densely branched cactus in desert wash habitat, usually 2-8 feet above ground.	**Moderate:** Study Area contains desert wash habitats.
Uma inornata	Coachella Valley fringe-toed lizard	Reptiles	Threatened	Endangered	IUCN_EN-Endangered	Limited to sandy areas in the Coachella Valley, Riverside County.	Requires fine, loose, windblown sand (for burrowing), interspersed with hardpan and widely-spaced desert shrubs.	**None:** Study Area lacks habitat for this species.
Uma scoparia	Mojave fringe-toed lizard	Reptiles	None	None	BLM_S-Sensitive | CDFW_SSC-Species of Special Concern | IUCN_LC-Least Concern	Fine, loose, wind-blown sand in sand dunes, dry lakebeds, riverbanks, desert washes, sparse alkali scrub and desert scrub.	Shrubs or annual plants may be necessary for arthropods found in the diet.	**None:** Study Area contains desert wash habitats and shrubs and annuals but is distant from records of this species.
Vireo bellii pusillus	least Bell's vireo	Birds	Endangered	Endangered		Summer resident of Southern California in low riparian in vicinity of water or in dry river bottoms; below 2000 ft.	Nests placed along margins of bushes or on twigs projecting into pathways, usually willow, Baccharis, mesquite.	**None:** Study Area is outside of the elevation range for this species.

Special-Status Plants

Scientific Name	Common Name	Lifeform	CRPR	Federal Listing	State Listing	Other Status	General Habitat	Microhabitat	Potential to Occur on Study area
Allium parishii	Parish's onion	perennial bulbiferous herb	4.3	None	None		Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland	Rocky	**Low:** The Study Area lacks microhabitat for this species.
Astragalus bernardinus	San Bernardino milk-vetch	perennial herb	1B.2	None	None	BLM_S; SB_CalBG/RSABG; USFS_S	Joshua tree "woodland", Pinyon and juniper woodland	Carbonate (often), Granitic (often)	**None:** The Study Area has low value habitat for this species but it is heavily degraded and unlikely to support this species. This perennial was not observed on the site during the survey.
Astragalus lentiginosus var. coachellae	Coachella Valley milk-vetch	annual/perennial herb	1B.2	FE	None	SB_CalBG/RSABG; SB_USDA	Desert dunes, Sonoran desert scrub (sandy)		**None:** Study Area is outside of the elevation range for this species.
Astragalus nutans	Providence Mountains milk-vetch	annual herb	4.3	None	None	SB_CalBG/RSABG	Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland, Sonoran desert scrub	Gravelly (sometimes), Sandy (sometimes)	**None:** The Study Area is outside the typical range for this species.
Astragalus tricarinatus	triple-ribbed milk-vetch	perennial herb	1B.2	FE	None	SB_CalBG/RSABG	Joshua tree "woodland", Sonoran desert scrub	Gravelly (sometimes), Sandy (sometimes)	**None:** The Study Area is outside the known range for this species
Berberis fremontii	Fremont barberry	perennial evergreen shrub	2B.3	None	None	SB_CalBG/RSABG	Joshua tree "woodland", Pinyon and juniper woodland	Granitic (sometimes), Rocky	**None**: Study Area is outside of the elevation range for this species.
Boechera dispar	pinyon rockcress	perennial herb	2B.3	None	None	SB_CalBG/RSABG	Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland	Granitic, Gravelly	**None:** Study Area is outside of the elevation range for this species.
Boechera lincolnensis	Lincoln rockcress	perennial herb	2B.3	None	None	BLM_S	Chenopod scrub, Mojavean desert scrub	Carbonate	**None:** Study Area is outside of the elevation range for this species.
Boechera shockleyi	Shockley's rockcress	perennial herb	2B.2	None	None	SB_CalBG/RSABG; USFS_S	Pinyon and juniper woodland (carbonate, gravelly, quartzite, rocky)		**None:** Study Area lack habitat for this species.

Scientific Name	Common Name	Lifeform	CRPR	Federal Listing	State Listing	Other Status	General Habitat	Microhabitat	Potential to Occur on Study area
Calochortus palmeri var. palmeri	Palmer's mariposa-lily	perennial bulbiferous herb	1B.2	None	None	BLM_S; SB_CalBG/RSABG; SB_SBBG; USFS_S	Chaparral, Lower montane coniferous forest, Meadows and seeps	Mesic	**None:** Study Area lack habitat for this species.
Camissonia kernensis ssp. kernensis	Kern County evening-primrose	annual herb	4.3	None	None		Chaparral, Joshua tree "woodland", Pinyon and juniper woodland	Granitic, Gravelly (sometimes), Sandy (sometimes)	**None**: The Study Area is outside the known range for this species.
Canbya candida	white pygmy-poppy	annual herb	4.2	None	None	SB_CalBG/RSABG; USFS_S	Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland	Granitic, Gravelly, Sandy	**Low:** The Study Area is heavily degraded and unlikely to support this species.
Chorizanthe xanti var. leucotheca	white-bracted spineflower	annual herb	1B.2	None	None	BLM_S; SB_CalBG/RSABG; SB_USDA; USFS_S	Coastal scrub (alluvial fans), Mojavean desert scrub, Pinyon and juniper woodland	Gravelly (sometimes), Sandy (sometimes)	**Low:** The Study Area is heavily degraded and unlikely to support this species.
Cordylanthus eremicus ssp. eremicus	desert bird's-beak	annual herb (hemiparasitic)	4.3	None	None	SB_CalBG/RSABG	Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland		**Low:** The Study Area has habitat for this species, but the Study Area is outside the elevation range for this species.
Cymopterus multinervatus	purple-nerve cymopterus	perennial herb	2B.2	None	None		Mojavean desert scrub, Pinyon and juniper woodland	Gravelly (sometimes), Sandy (sometimes)	**Low:** The Study Area lacks preferred habitat for this species.
Eriastrum harwoodii	Harwood's eriastrum	annual herb	1B.2	None	None	BLM_S; SB_CalBG/RSABG; SB_USDA	Desert dunes		**None:** The Study Area lacks habitat for this species.
Erigeron parishii	Parish's daisy	perennial herb	1B.1	FT	None	SB_CalBG/RSABG	Mojavean desert scrub, Pinyon and juniper woodland	Carbonate (usually), Granitic (sometimes)	**Low:** The Study Area lack microhabitat for this species.
Eschscholzia androuxii	Joshua Tree poppy	annual herb	4.3	None	None		Joshua tree "woodland", Mojavean desert scrub	Flats, Gravelly, Rocky, Sandy, Slopes, Washes	**Low:** The Study Area is degraded and unlikely to support this species.
Euphorbia vallis-mortae	Death Valley sandmat	perennial herb	4.2	None	None	SB_CalBG/RSABG	Mojavean desert scrub (gravelly, sandy)		**None:** The Study Area lacks preferred habitat for this species.
Funastrum utahense	Utah vine milkweed	perennial herb	4.2	None	None		Mojavean desert scrub, Sonoran desert scrub	Gravelly (sometimes),	**None:** The Study Area lacks preferred habitat for this species.

Scientific Name	Common Name	Lifeform	CRPR	Federal Listing	State Listing	Other Status	General Habitat	Microhabitat	Potential to Occur on Study area
								Sandy (sometimes)	
Galium angustifolium ssp. gracillimum	slender bedstraw	perennial herb	4.2	None	None	SB_CalBG/RSABG	Joshua tree "woodland", Sonoran desert scrub	Granitic, Rocky	**Low:** The Study Area lacks micro habitat for this species.
Galium johnstonii	Johnston's bedstraw	perennial herb	4.3	None	None	SB_CalBG/RSABG	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland, Riparian woodland		**None:** Study Area is outside of the elevation range for this species.
Grusonia parishii	Parish's club-cholla	perennial stem	2B.2	None	None		Joshua tree "woodland", Mojavean desert scrub, Sonoran desert scrub	Rocky, Sandy	**None**: The Study Area is outside the known range of this species.
Hulsea vestita ssp. parryi	Parry's sunflower	perennial herb	4.3	None	None	SB_CalBG/RSABG	Lower montane coniferous forest, Pinyon and juniper woodland, Upper montane coniferous forest	Carbonate (sometimes), Granitic (sometimes), Openings, Rocky	**None:** Study Area is outside of the elevation range for this species.
Linanthus bernardinus	Pioneertown linanthus	annual herb	1B.2	None	None	BLM_S; SB_CalBG/RSABG	Joshua tree "woodland", Pinyon and juniper woodland		**None:** Study Area is outside of the elevation range for this species.
Linanthus maculatus ssp. maculatus	Little San Bernardino Mtns. linanthus	annual herb	1B.2	None	None	BLM_S; SB_CalBG/RSABG	Desert dunes, Joshua tree "woodland", Mojavean desert scrub, Sonoran desert scrub	Sandy	**None:** The Study Area is outside the known range for this species.
Lycium torreyi	Torrey's box-thorn	perennial shrub	4.2	None	None		Mojavean desert scrub, Sonoran desert scrub	Rocky, Sandy, Streambanks, Washes	**Low**: The Study Area lacks rocky streambanks.
Monardella robisonii	Robison's monardella	perennial rhizomatous herb	1B.3	None	None	BLM_S; SB_CalBG/RSABG	Pinyon and juniper woodland		**None:** The Study Area lacks habitat for this species.
Muilla coronata	crowned muilla	perennial bulbiferous herb	4.2	None	None		Chenopod scrub, Joshua tree "woodland", Mojavean desert scrub, Pinyon and juniper woodland		**Low:** The Study Area is outside the known range for this species.
Penstemon clevelandii var. mohavensis	Mojave beardtongue	perennial herb	1B.2	None	None		Mojavean desert scrub, Pinyon and juniper woodland	Granitic (often), Rocky	**Low:** The Study Area lack microhabitat for this species.

Scientific Name	Common Name	Lifeform	CRPR	Federal Listing	State Listing	Other Status	General Habitat	Microhabitat	Potential to Occur on Study area
Phacelia mohavensis	Mojave phacelia	annual herb	4.3	None	None	SB_CalBG/RSABG; SB_USDA	Cismontane woodland, Lower montane coniferous forest, Meadows and seeps, Pinyon and juniper woodland	Gravelly (sometimes), Sandy (sometimes)	**None:** Study Area is outside of the elevation range for this species.
Saltugilia latimeri	Latimer's woodland-gilia	annual herb	1B.2	None	None	BLM_S; SB_CalBG/RSABG; SB_USDA; USFS_S	Chaparral, Mojavean desert scrub, Pinyon and juniper woodland	Granitic (often), Rocky (sometimes), Sandy (sometimes), Washes (sometimes)	**Low:** The Study Area lacks the preferred habitat for this species.
Streptanthus campestris	southern jewelflower	perennial herb	1B.3	None	None	BLM_S; SB_CRES; USFS_S	Chaparral, Lower montane coniferous forest, Pinyon and juniper woodland	Rocky	**None:** The Study Area lacks habitat for this species.
Tetracoccus hallii	Hall's tetracoccus	perennial deciduous shrub	4.3	None	None	SB_CalBG/RSABG	Mojavean desert scrub, Sonoran desert scrub		**Low:** The Study Area lacks the preferred habitat for this species.
Yucca brevifolia	Western Joshua tree	Monocotyledonous tree	CBR	None	Candidate Threatened	Western Joshua Tree Conservation Act (WJTCA)	Mojavean desert scrub, pinyon and juniper woodland, Joshua tree woodland	Hot, dry sites on flats, mesas, bajadas, and gentle slopes in the Mojave Desert	**Present.** This species was observed throughout the study area and project site and create a Joshua Tree Woodland.

Appendix C

Biologist Qualifications

December 2025

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Mobile: 303-818-3632

Matthew South

PRINCIPAL BIOLOGIST

Matthew South founded South Environmental in 2018. He is a certified wildlife biologist with over 17 years of professional experience providing natural resources consulting services for a wide variety of clients that include residential, commercial, government, utility, infrastructure, research, and non-profit projects. For the last 14 years, Mr. South has been an environmental consultant in southern California acting as a Wildlife Biologist and Geographic Information System (GIS) Analyst. In early 2018 he started South Environmental and has since been supporting clients in Los Angeles, Ventura, Santa Barbara, San Bernardino, and Riverside Counties.

Mr. South's background in ecology has led to a passion for conservation planning and resources assessments for the purpose of preservation and management. The integration of the latest technologies such as advanced GIS systems, mobile computing, and drone sensing allows him to innovate new data collection, analysis, and collaboration tools for the environmental sciences that produce more accurate data and better-informed resource managers.

EXPERTISE

- **Conservation and Management Planning.** Mr. South's has extensive experience preparing mitigation and monitoring plans, habitat conservation plans, and technical biological resources management plans that are compliant with federal, state, and local regulations. Mr. South is the only active NRCS TSP for Fish and Wildlife Plans Certified in California.
- **Biological Resources Assessment.** Mr. South has completed dozens of biological resources assessments throughout southern California.
- **Rare Plants and Arborist Services.** Mr. South has surveyed and assessed thousands of native and landscaped trees in southern California. He is a certified arborist with 5-years of tree survey experience working closely with some of the most experienced arborists in California. In addition, he has performed hundreds of hours of rare plant surveys and habitat assessments.
- **Wetland & Jurisdictional Delineations.** Mr. South has conducted dozens of jurisdictional and wetland delineations per the guidelines and methods from the US Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), and the state Regional Water Quality Control Boards (RWQCB).
- **GIS.** Mr. South is an expert at spatial data collection and analysis using ESRI mobile and desktop software products and Trimble hardware.

EDUCATION

B.S., Wildlife Ecology, University of Wisconsin-Madison, 2004

CERTIFICATIONS

Certified Wildlife Biologist, The Wildlife Society 2014

Certified Technical Service Provider (TSP) for Fish and Wildlife Management Plans, USDA NRCS 2017

Authorized Desert Tortoise Biologist – Numerous BOs

Unmanned Aircraft System Pilot Certification, FAA #4177603

TRAINING

Wetland Delineation Training Course – The Wetland Institute (2014)

Southwest Willow Flycatcher Workshop, 2017

USGS Desert Tortoise Health Assessment and Tissue Collection Techniques Training, 2009

SELECT PROJECT EXPERIENCE

EVMWD Rice Canyon Reservoir Access Road and New Conduit Project, City of Lake Elsinore, Riverside County, California (2022). South Environmental was retained to complete biological and cultural resources services. Biological resources work included a Jurisdictional Delineation Report, a Biological Resources Assessment/MSHCP Consistency Analysis, Rare Plant Surveys, Burrowing Owl Surveys, and mitigation planning. Matthew South was the Principal Biologist on the project.

Wendy's in Calimesa Project, Riverside County, California (2023). South Environmental was retained to complete a Biological Resources Assessment and Western Riverside County MSHCP Consistency Analysis Report. Mr. South served as the Principal Biologist on the Project.

Southern California Gas (SCG) As-Needed Biological and Cultural Resources Services (2022-ongoing). As a subconsultant on this contract Mr. South has overseen the assessment numerous resources from single point locations to many miles of pipelines. More recently he has begun to conduct biological assessment in the coastal zone in Santa Barbara County as well as endangered species Biological Assessments (BAs) in support of Coastal Development Permits for SCG. Wetland delineation and permitting, biological resources assessments, and resources surveys and monitoring are services that Mr. South both provides personally and oversees a team of specialists that support the environmental impacts analysis and permitting for SCG.

Southern California Edison (SCE) As-Needed Natural and Cultural Resources Services (2021-ongoing). As a subconsultant on this contract for multiple Primes (SWCA, EI, Rincon, Cardno, and ERM), South Environmental has focused its biological resources services on wetland delineations and permitting efforts for SCE throughout all its regions. From single pole delineations in roadside ditches to several hundred poles through miles of wet meadows in the Sierras, the projects vary in size and complexity as well as location. Primarily, delineations have been in the Sierras with the largest and most complex projects in Inyo and Mono Counties and several in Kern and Tulare. A few of the specific projects include

- Pickle Meadow: Aquatic Resources Delineation Report and Permitting for 300-poles located in a wet meadow behind Bridgeport Reservoir.
- Kern River: Wetland Delineation and Permitting for 15 pole replacements in Kernville.
- June Lake to Tom's Place: Wetland Delineation and Permitting for 40 poles spread through Inyo and Mono Counties.
- Cajon Wash: Jurisdictional Delineation and SBKR Assessment and Permitting for 10 pole replacements and realignment for a capital project located in SBKR Critical Habitat.
- Pipes Wash: Delineation and Permitting for 25-poles that are within Pipes Wash, a large ephemeral wash in the San Bernardino desert.

City of Palmdale - Palmdale Warehouse Project (2022-on going). South Environmental prepared a jurisdictional delineation and permit applications to CDFW and RWQCB for the project. Services included EPIMS application and RWQCB Dredge and Fill Application and coordination including for mitigation management and alternatives analysis. Currently South Environmental is overseeing the compliance monitoring for the project.

City of Los Angeles Recreation and Parks Department Controlled Burn Project Burrowing Owl Surveys and Mitigation (2022). Mr. South planned and implemented a large scale burrowing owl protocol survey at

a model airfield park in the Sepulveda Basin. The survey was conducted over 1,300-acres and two burrowing owls were identified. Mr. South prepared a mitigation plan for conducting the controlled burn and avoiding impacts to burrowing owls.

California Coastal Zone Experience (2018-2024).

- Old Chimney Road Development, Santa Monica Mountains LCP (2018-present). Completed a BRA and oak tree survey per the LCP guidelines and presented to the Environmental Review Board (ERB).
- Gold Stone Road Development, Santa Monica Mountain LCP (2019-present). Completed a BRA, oak tree survey, and native tree survey per the LCP guidelines.
- Entrada Road Development, Santa Monica Mountains LCP (2020). Completed a BRA and oak tree survey per the LCP guidelines.
- Schueren Road Development, Santa Monica Mountains LCP (2019-2020). Completed a wetland delineation according to the California Coastal Commission guidelines.
- Decker Edison Road Development, City of Malibu (2020). Completed a BRA per the City of Malibu LCP guidelines.
- Malibou Lake Developments, North Santa Monica Mountains SEA (2020). Completed a biological resources map per the updated SEA guidelines.
- Medley Lane Development, Santa Monica Mountains LCP (2020). Completed a biological inventory per the guidelines of the Santa Monica Mountains LCP.
- Stunt Road Development, Santa Monica Mountains LCP (2018). Completed a BRA per the LCP guidelines.
- Malibou Lake Mountain Club, North Santa Monica Mountains SEA (2018). Completed permit packages for routine maintenance dredging of the lake, including a BRA, Section 404 CWA permit application, and CDFW Lake and Streambed Alteration Agreement.

Email: Lsouth@southenvironmental.com
Mobile: 626-314-4989

EDUCATION

B.S., Physics and Astronomy, University of Rochester, 2022

B.A., Religious Studies, University of Rochester, 2022

SKILLS

-Scientific collection and management of field data

-Technical Writing

- Compliance monitoring

-Python for data analysis and data visualization

-Grant writing and coordination of award usage

Lucas South

BIOLOGIST

Lucas South is a biologist conducting compliance monitoring and biological resources assessments in southern California. They are a graduate of the University of Rochester, with a Bachelor of Science in Astrophysics. During their degree they gained extensive lab experience in experimental data collection and technical writing (3 years), winning 3 grants for their work in granular physics. More recently they have endeavored to apply their skills to the area of biological monitoring and conservation. They have experience in avian biological monitoring for a major environmental consulting firm during which they conducted field biological research in the Midwestern region. Since relocating to southern California, Lucas has focused on compliance monitoring and nesting bird surveys and has been the lead monitor for several large-scale projects, including City of Los Angeles and Southern California Gas projects.

Mr. South's educational background in physics and planetary science has led to an interest in researching environmental impacts on earth, especially in the context of continuing climate change. Their professional experience in biological monitoring has created a specific interest in avian species. They also seek to apply skills of data analytical techniques with Python and technical writing toward facilitating different research projects centered around the conservation of critical natural resources.

EXPERTISE

- **Compliance Monitoring.** Mr. South has extensive experience monitoring utilities and large-scale construction projects for environmental compliance measures, as well as providing environmental training for construction personnel. Mr. South is cross-trained in paleontological monitoring.
- **Biological Resource Assessment.** Mr. South is experienced in conducting resources assessments, nesting bird surveys, and small mammal surveys.
- **Bird and Bat Identification.** Mr. South has experience in identifying migratory and resident bird and bat species throughout the Midwestern region and southern California, including identification of endangered species.
- **Data Acquisition.** Mr. South has experience with data acquisition systems that utilize GIS, as well as laboratory data management systems.
- **Scientific Writing.** Mr. South has expertise in writing scientific reports, presentations, and grant proposals, having contributed to 3 journal publications, and acquired 3 grants, as well as having written dozens of technical reports detailing survey results.

SELECT PROJECT EXPERIENCE

Jackson Street Improvements Paleontological Monitoring (2025). Lucas was the lead paleontological monitor for a street improvement project in Indio, California. The project site required monitoring for paleontological resources such as fossils found during excavation. Lucas trained construction crew in fossil find procedures, documented onsite compliance, and documented more than 5 nonsignificant paleontological finds.

Highway 74 Sewer Extension Project Monitoring (2025). Lucas was a primary monitor for a sewer extension project in Perris, California. The project site required monitoring for burrowing owls, nesting birds, and jurisdictional resources. Lucas assisted in training construction crew in environmental procedures, documenting onsite compliance, ensuring resource avoidance, and conducting preconstruction surveys for burrowing owl and nesting birds.

Desert Hot Springs Project Viento Monitoring (2024). Lucas was a primary monitor for a warehouse construction project in Desert Hot Springs, California. The project site hosted 3 burrowing owl nests with both adult burrowing owls and their young. Lucas assisted in establishing Environmentally Sensitive Areas around the burrows, training construction crew in environmental procedures, documenting onsite compliance, and submitting project compliance reports. The monitor's main duty was to observe and analyze owl behavior to determine whether any change of work method was required.

Trader Joe's Palmdale Warehouse Project (2023-2024). Lucas was the lead monitor for a long-term monitoring project in Palmdale California. The project constructed a Trader Joe's distribution Center on 130-acres in the City of Palmdale. The project had an ITP and LSAA that covered Mohave Ground Squirrel, western Joshua tree, 2 streams on the site, special-status reptiles, rare plants, Crotch's bumble bee, Swainson's hawk, and several other species. Lucas oversaw compliance with all of the permitting documents on a full-time basis and conducted preconstruction rare plant and Mojave ground squirrel surveys. Lucas conducted Worker Environmental Awareness Programs for 300+ workers over the course of the project and worked with the Designated Biologist to monitor several active bird nests on the site and relocate several small mammals.

Aliso Canyon Emergency Monitoring Project Southern California Gas (2023). Lucas was a monitor for a long-term project that included the removal of sediment from catch basins where sensitive wetlands and wildlife such as coast range newt occurs. Lucas was responsible for conducting monitoring, daily reports, and project compliance. Lucas conducted surveys in wetlands for coast range newt and conducted compliance monitoring during the project. Lucas relocated 19 coast range newt larvae for the project.

Southern California Gas (SCG) On-Call Biological and Cultural Services (2023). Lucas was a biologist on the contract and typically performed construction and compliance monitoring for projects such as the L133 DeRate Project, State Street Valve Project, and the Glen Oaks Pipeline Maintenance Project. Other duties include preconstruction surveys for nesting birds and other special-status species and monitoring reports that include BMP and photoplates for preconstruction and post construction compliance reports. For these projects Lucas has identified and protected numerous species such San Joaquin antelope squirrel, San Joaquin kit fox, several kangaroo rats, blunt-nosed leopard lizard, and pocket mice, as well as general compliance monitoring for BMPs.

City of LA Recreation and Parks City Park Brush Clearance Monitoring within Riparian Areas (2023). Lucas was the primary monitor that conducted nesting bird surveys and compliance monitoring at 5 parks where brush clearance is performed annually to meet LA Fire Department requirements. The work was within and near riparian areas and wetland and riparian vegetation and wildlife were the target species.

City of Los Angeles Biological Resources Assessments (2023 – present). Lucas conducts site assessments for biological resources, surveys for special-status plants and animals, maps and characterizes plant communities and wetlands/streams, and assesses potential impacts to biological resources from proposed developments. Lucas has worked on the following reports:

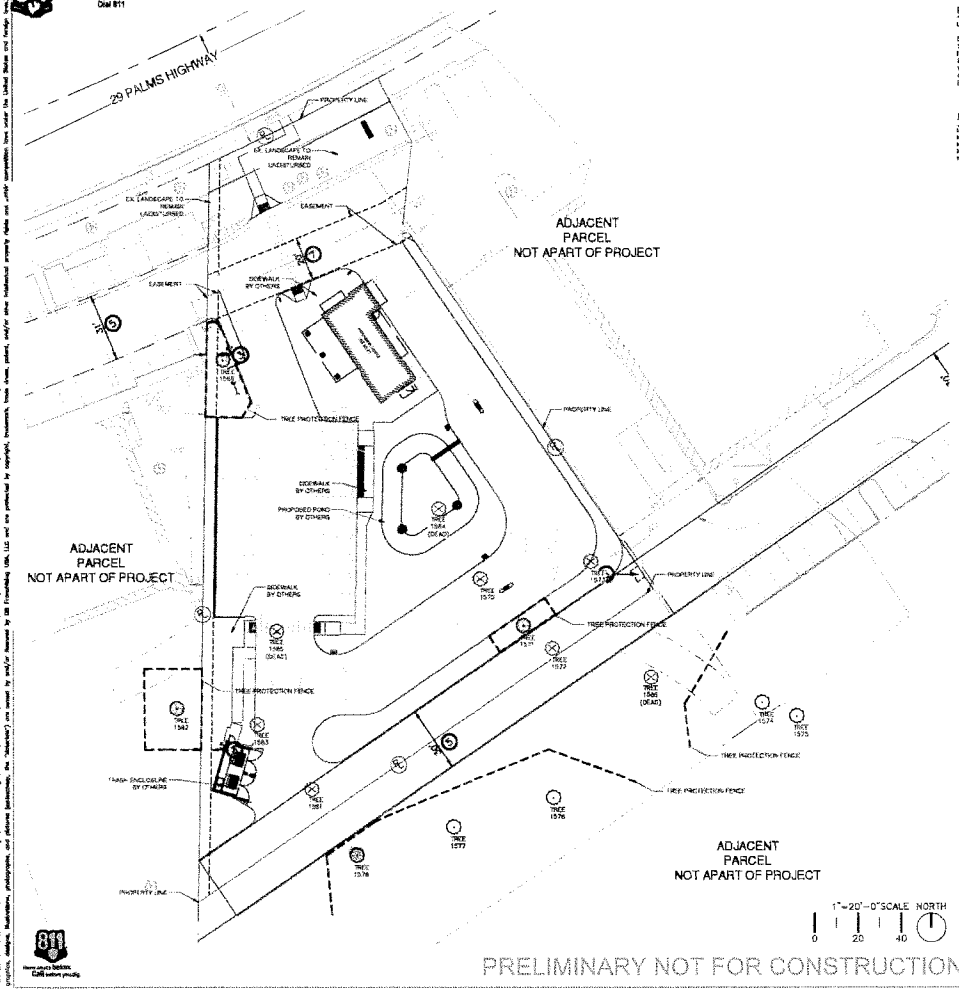
- 4933 Cerrillos Drive
- Bakersfield Commerce Center
- 434 Chautauqua Boulevard
- Colton Truck and Trailer Repair Project
- 18942 Arminta Street SB9 Report
- 1851 Stanley Avenue SB9 Report
- Brookside Golf Course Lighting Impact Assessment
- 1903 Hanscom Drive Biological Constraints Analysis
- 4875 Onteora Sensitive Natural Community Assessment
- 2526 Briarcrest Road BRA
- 64 Beverly Park Biologist's Statement
- 360 S Mapleton Biologist's Statement
- 700 Paseo Del Mar Biologist's Statement
- 4119 & 4123 Rolle Street Biologist's Statement
- 13433 Newcomb Drive Biologist's Statement
- Sunset Jewelbox Lighting Impact Assessment

Appendix D

Site Plan

December 2025

DUTCH BROS. COFFEE - CA3714 - YUCCA VALLEY, CA



PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TEAM

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ARBORIST:
DESERT Arborist Services
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W: WWW.DESERTARBORISTSERVICES.COM

NATIVE PLANT & TREE CALCULATIONS

NATIVE TREES ON-SITE:	16 TREES
NATIVE TREES - DEAD TO BE REMOVED	3 TREES
NATIVE TREES - TO BE TRANSPLANTED	5 TREES
NATIVE TREES - TO BE REMOVED	3 TREES
NATIVE TREES - TO REMAIN (PROTECT IN PLACE)	5 TREES

LEGEND

EXISTING TREES TO BE PROTECTED IN PLACE — TREE PROTECTION FENCE

EXISTING TREE TO BE REMOVED

NATIVE PLANT DOCUMENTATION SURVEY TABLE

Joshua Tree Survey Data						
Waypoint	Tree Type	Quantity	Diameter	Height	Health	DISPOSITION
1569	Joshua Tree	1	9.5"	22ft	Good	REMAIN
1570	Joshua Tree	1	10"	15ft	Good	REMOVE
1571	Joshua Tree	1	16"	22ft	Good	REMAIN
1572	Joshua Tree	2	14"	18ft	Good	REMOVE
1573	Joshua Tree	1	16.5"	18ft	Good	REMOVE
1574	Joshua Tree	1	7.5"	16ft	Good	REMAIN
1575	Joshua Tree	2	7",1.5"	10ft	Good	REMAIN
1576	Joshua Tree	1	14"	20ft	Good	REMAIN
1577	Joshua Tree	1	16"	14ft	Good	REMAIN
1578	Joshua Tree	3	8",3",7"	9/2/6ft	Good	REMAIN
1581	Joshua Tree	3	6",3.5",2.5"	6/3.5/2.5ft	Good	REMOVE
1582	Joshua Tree	1	6"	8ft	Fair	REMAIN
1583	Joshua Tree	1	13"	18ft	Good	REMOVE
1584	Joshua Tree	Dead	Dead	Dead	Dead	REMOVE
1585	Joshua Tree	Dead	Dead	Dead	Dead	REMOVE
1586	Joshua Tree	Dead	Dead	Dead	Dead	REMOVE

NOTE: TREE PROTECTION FOR ANY PRESERVED OR RELOCATED TREES MUST BE PROVIDED PER DETAILS AND SPECIFICATIONS ON SHEET NP-2. THESE MUST BE UP PRIOR TO THE COMMENCEMENT OF ANY WORK AND MAINTAINED THROUGHOUT CONSTRUCTION.

NOTE: ALL TREE TRIMMING MUST BE APPROVED BY THE OWNER AND LOCAL JURISDICTION PRIOR TO COMMENCEMENT OF WORK. ALL TREE TRIMMING MUST BE DONE BY AN ISA CERTIFIED ARBORIST IN ACCORDANCE WITH LOCAL TREE PRESERVATION ORDINANCE.

Title: NATIVE PLANT PROTECTION PLAN
SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

For: DUTCH BROS

Bengtsson Consulting Engineers, LLC
Civil Engineering
Land Development
Water Resources
Water Systems
Wastewater Systems
Surveying
Mapping
Construction Management
Inspection
Project Management
Feasibility Studies
Cost Estimates
Permitting
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Appendix E

Joshua Tree Inventory

December 2025

Western Joshua Tree Inventory

Yucca Valley Dutch Bros Coffee

December 2025

Prepared For:

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Appendix C: Site Plan

1.Introduction

This report includes results of a western Joshua tree (*Yucca brevifolia)* inventory conducted by South Environmental for the Yucca Valley Dutch Bros Project located in the town of Yucca Valley, San Bernardino County, California. There is a proposal to develop the parcel to create a drive through Dutch Bros Coffee restaurant on 1.01-acre (Assessor Parcel Number 0601-416-05) located at 58121 Twentynine Palms Highway. The purpose of this report is to create an inventory of western Joshua trees on the site and assess potential impacts to them from the proposed development. The scope of this report includes a description of the survey area; methods used to survey the trees involving assessment of structure, health, and mapping; the results of the survey including photographs of each tree; a description of the laws and regulations pursuant to Joshua tree protection; and the potential development impacts to Joshua trees on the site. Recommendations for mitigation are also included in the report.

1.1 Project Location and Setting

The project site is in the Town of Yucca Valley in an unincorporated area of San Bernardino County at 58121 Twentynine Palms Highway (State Route 62). The project is within the U.S. Geological Survey (USGS) Yucca Valley North 7.5 Minute Topographical Quadrangle, and within Section 31 of Township 01 North (01N) and Range 06 East (06E). The site is set between two commercial developments on the east side of the town of Yucca Valley. The site is entirely undeveloped apart from a small dirt road through the middle. The plant community is Joshua Tree Woodland dominated by western Joshua tree in the canopy and Joshua tree and desert shrubs in the sub-canopy. The soil is sandy and the overall vegetative cover on the site is moderate (40-60%). The areas adjacent to the site are mostly developed with housing and commercial businesses to the north, east, and south. The area to the west is undeveloped and contains a desert wash. The survey area is bordered by 29 Palms Highway on the north and Balsa Avenue on the south.

1.2 Proposed Development

The Project proposes the construction and operation of an approximately 1,025-square-foot Dutch Bros Coffee restaurant with a dual-lane drive-through facility and associated site improvements. The drive-through is designed to accommodate 23 queued vehicles. In addition to on-site improvements, the Project also includes off-site roadway improvements consistent with the Town's circulation plans, including the future widening of Twentynine Palms Highway to an ultimate half-width of 67 feet along the Project frontage

2.Methodology

2.1 Field Survey

South Environmental biologist Lucas South conducted a survey of each western Joshua tree on the proposed project site and within a 100-foot buffer zone on October 28, 2025. Data were collected on each tree's height, canopy width, structure, and condition (health). The surveys were conducted in accordance with California Fish and Game Code section 1927.3, subdivision (a)(1). During the survey, each observed Joshua tree was given a unique identification number, and its location was recorded using a ESRI FieldMaps mobile phone application. The biologist evaluated the structure and general health of each tree, and a digital photograph was taken of each tree. The following highlights the parameters used in the structural and health evaluation of the trees.

2.1.1 Structural Evaluation

An evaluation of the physical structure of each tree included the following:

- **Height of main stem** was measured using a visual estimation
- **Canopy spread** was measured using a visual estimation by estimating the distance across the entire canopy of the tree (main stem and rhizome stems) where that distance was greatest,
- **Structure/Architecture** included describing in general structure of each tree
- **Structural Height Rating** – each Joshua tree were classified by their height by 3 groups:
    - <1m tall (Class A)
    - >1-<5m tall (Class B)
    - Greater than or equal to 5m tall (Class C)

2.1.2 Condition/Health Assessment

Condition/Health Rating – each Joshua tree received a single number health rating based on its similarity to an archetypal Joshua tree in excellent condition:

- 5 – Maximum health: has flowers or regrowth
- 4 – Healthy: Overall good health
- 3 – Fair health: Trees that had bad (dead or dying) branches, but overall structure was okay
- 2 – Poor health: no new foliage, leaf yellowing, expected to the dying soon
- 1 – Dead: all foliage dead or dying (yellow or brown)

Each tree was assessed for it's **maturity**, and those trees with at least one branch were considered mature, while those without branching were immature.

Flowers and/or **fruits** were noted for each tree.

2.2 Regulatory Setting

2.2.1 State Regulations

California Endangered Species Act (ESA)

In 2022, the CDFW developed a status review report for western Joshua tree assessing whether listing the species as endangered or threatened under the California Endangered Species Act would be warranted. And in 2023, the Western Joshua Tree Conservation Act was passed, which acted to postpone a further analysis of the species under the California ESA until at least 2033 when the CDFW is mandated with preparation of an updated status review of the species, unless the Fish and Game Commission directs CDFW to complete the update sooner. In the interim period, protection of the species in California, including take of the species, is pursuant to the Western Joshua Tree Conservation Act.

Western Joshua Tree Conservation Act

The Western Joshua Tree Conservation Act is the current legislation in the State of California for use in protection of the Joshua tree and was passed on 2023. Foremost, the legislation prohibits the importation, export, take, possession, purchase, or sale of any western Joshua tree in California unless authorized by CDFW. The Act currently supersedes the California Endangered Species Act (ESA) and authorizes CDFW to issue permits for the "take" of one or more western Joshua trees if the permittee meets specific conditions. Permittees have the opportunity to relocate a Joshua tree in areas impacted by development or pay a fee in lieu of conducting mitigation activities. The legislation also grants the CDFW the authority to issue permits for the removal of dead western Joshua trees and trimming of live western Joshua trees.

The legislation allow for agreements to be made between the CDFW and any county or city which limit the authority to permit the taking of a Joshua tree associated with developing single-family residences, multifamily residences, accessory structures, and public works projects. A similar agreement between the CDFW and a county or city can also be authorized to limit the authority to permit the removal of dead and trimming of live Joshua trees.

With this legislation, in-lieu fees collected will be deposited into the "Joshua Tree Conservation Fund" for appropriation to CDFW strictly with the goal of acquiring, conserving, and managing Joshua tree conservation lands and carrying out other project to conserve the species.

Additionally, the act mandates the CDFW with development and implementation of a Joshua tree conservation plan in collaboration with governmental agencies, California Native American Tribes, and the public. A draft of the plan must be presented by December 31, 2024, at a public meeting of the Fish and Game Commission for its review and approval. Finally, CDFW must produce annual reports assessing the conservation status of the western Joshua tree (State of California, 2023).

In cases of private development the following is a summary of important conservation measures under the Western Joshua Tree Conservation Act:

The Western Joshua Tree Conservation Act stipulates several measures to assist with the assessment of impacts to and mitigation for western Joshua tree in areas proposed for development. Permittees may mitigate loss or damage to trees by relocating them or by paying specified fees in lieu of conducting mitigation. Under the act, all in-lieu fees collected will be deposited into the Western Joshua Tree Conservation Fund for the purposes of acquiring, conserving, and managing western Joshua tree conservation lands and completing other activities to conserve the western Joshua tree.

Western Joshua Tree Conservation Plan

The Western Joshua Ttree Conservation Act requires the California Department of Fish and Wildlife (CDFW) to develop and implement a Western Joshua Tree Conservation Plan (Conservation Plan) in collaboration with the Commission, governmental agencies, California Native American tribes (Tribes), and the public (Fish & G. Code, § 1927.6, subd. (a)). The plan was approved and finalized in August 2025. The Conservation Plan provides guidelines for western Joshua tree conservation, criteria to help define effectiveness of management actions, monitoring of management outcomes, and a process of adaptive management to refine and improve the management actions over time. The management actions can be incorporated into project approvals by local, state, and federal government agencies that authorize projects or resource management programs in western Joshua tree's range in California.

The Conservation Plan describes the steps required to achieve the vision of conserving western Joshua tree and its habitat in California such that listing under CESA will not be needed. The Conservation Plan can be divided into two parts: The first part summarizes guiding concepts and currently available information, and the second part describes management actions and the implementation approach for conserving western Joshua tree and achieving the vision of the Conservation Plan.

Chapter 5 of the Conservation Plan describes Conservation Management Actions and Effectiveness Criteria, and specifically Section 5.2.1 is focused on Impact Avoidance and Minimization that is often associated with construction projects. According to the section, the first priority for conservation of western Joshua tree and its habitat is to avoid adverse impacts altogether. When complete avoidance cannot be achieved, efforts should be made to minimize impacts on western Joshua tree and its habitat, and the presence of tribal cultural monitors and a trained arborist to minimize these impacts are encouraged. Minimization may include efforts to reduce the number of trees and seeds taken; the area of habitat that is lost or degraded; the severity of impacts on individual trees; impacts on other organisms on which western Joshua tree depends; and indirect impacts on trees, seeds, habitats, and other ecologically related organisms.

The avoidance and minimization actions in this section could be voluntarily adopted and implemented by project proponents and land managers, incorporated into project approvals by local governments and regulatory agencies, or incorporated into voluntary, cooperative agreements between relevant agencies, organizations, and other parties. The Western Joshua Tree Conservation Act (WJTCA) requires the avoidance and minimization of impacts on western Joshua tree to the maximum extent practicable as a condition of obtaining a WJTCA incidental take permit (ITP) (Fish & G. Code, § 1927.3, subd. (a)(2)). WJTCA also states that the Conservation Plan shall include guidance for the avoidance and minimization of impacts on western Joshua trees and protocols for the successful relocation of western Joshua trees (Fish & G. Code, § 1927.6, subd. (a)).

The following Management Actions are Recommended for construction projects:

1. Avoid direct and indirect impacts by project design that retains healthy trees, buffer areas for remaining trees, limit pesticide application, avoid OHV use, and avoid overgrazing.
2. Minimize direct and indirect impacts by avoiding trees, relocating trees, collect and store seeds, and minimizing invasive plants.
3. Minimize impacts from wildlife and wildfire suppression.

2.2.2 Local Regulations

Town of Yucca Valley Joshua Tree Ordinance

This document is an addendum to the Town's General Plan Update certified environmental impact report (EIR), State Clearinghouse No. 2012111021, to address the Town's proposal to enact an urgency ordinance to establish regulations implementing the California Fish and Game Commission's Special Order relating to the take of western Joshua trees during the California Endangered Species Act (CESA) candidacy period and to remove the western Joshua tree from the Town's list of regulated desert native plants during the period the ordinance is effective, by adding

new Chapter 9.56 to and amending Sections 9.07.130, 9.09.050 and 9.10.040 of the Town's Development Code (Proposed Project or Urgency Ordinance).

The temporary take authorization and related mitigation provisions of Urgency Ordinance are limited in scope and only apply to the three project types listed in and covered by the Special Order. Specifically, the temporary take authorization is limited to the Town' s approval of single-family residences, accessory structures, and certain public works projects defined by the Special Order as:

- Single Family Residence: Single Family Residence means a single detached building that has been or will be constructed and used as living facilities, including provisions for sleeping, eating, cooking, and sanitation as required by the California Building Code for not more than one household. Nothing in this section shall be construed to authorize take of western Joshua tree for a subdivision or other development that includes more than one single-family residence.
- Accessory Structure: Accessory Structure means a subordinate structure, the use of which is incidental to an existing or contemporaneously constructed single-family residence, and includes: an accessory dwelling unit, addition to an existing single-family residence, garage, carport, swimming pool, patio, greenhouse, storage shed, gazebo, septic tank, sewer connection, solar panels, or gravel or paved driveway.
- Public Works Project: Public Works Project means a project for the erection, construction, alteration, maintenance, or repair, of any public structure, building, or road.

Yucca Valley Municipal Code Chapter 9.56 (Removal of Joshua Tree)

The purpose of this Chapter is to establish permitting standards and process for the issuance of take permits for the Western Joshua Tree as authorized pursuant to the Special Order approved by the California Fish and Game Commission pursuant to Fish and Game Code section 2084 on December 10, 2020 ("Special Order"). The Special Order was subsequently approved by the Office of Administrative Law, and went into effect on January 7, 2021. The requirements set forth in this Chapter are intended to protect the public's health, safety, and welfare by ensuring that take permits for the Western Joshua Tree are only issued consistent and compliant with the Special Order. (Ord. 291, 1-19-2021). The Planning Commission may authorize the take of western Joshua tree associated with developing single-family residences, accessory structures, and public works projects concurrent with its approval of the project.

Yucca Valley Native Plant Ordinance

The Yucca Valley Native Plant Ordinance was adopted by the Town of Yucca Valley in 2014 and was codified into the Town's Development Code Section 9.09.050 for commercial zoned parcels.

The Ordinance stipulates that commercial development projects shall be allowed to transplant on and off site and to remove all regulated desert native plants from their native locations within the property boundaries, pursuant to the development standards and requirements. Regulated desert native plants for all commercial land development projects, include the following: Joshua tree (*Yucca brevifolia*), Mojave yucca (*Yucca schidigera*), Parry's nolina (*Nolina parryi*), California juniper (*Juniperus californica*), Our Lord's candle (*Yucca whipplei*), and Pinon pine (*Pinus monophylla*).

Joshua Tree Community Action Plan

The Joshua Tree Community Action Plan was adopted in 2016 and provides overarching goals to protect desert habitat in the area including Joshua tree woodland. There are two overarching "action statements" in the Plan that apply to conservation of Joshua trees: 1) Partner with organizations such as Mojave Desert Land Trust to conserve natural desert habitats and wildlife corridors and to protect native plants and animals, and 2) Promote respect for local ecosystems and be stewards of the environment. While the Plan does not contain detailed specific actions related to these goals, it does embody the spirit and general intent of Joshua tree conservation in the area (San Bernardino County, 2016).

3.Results

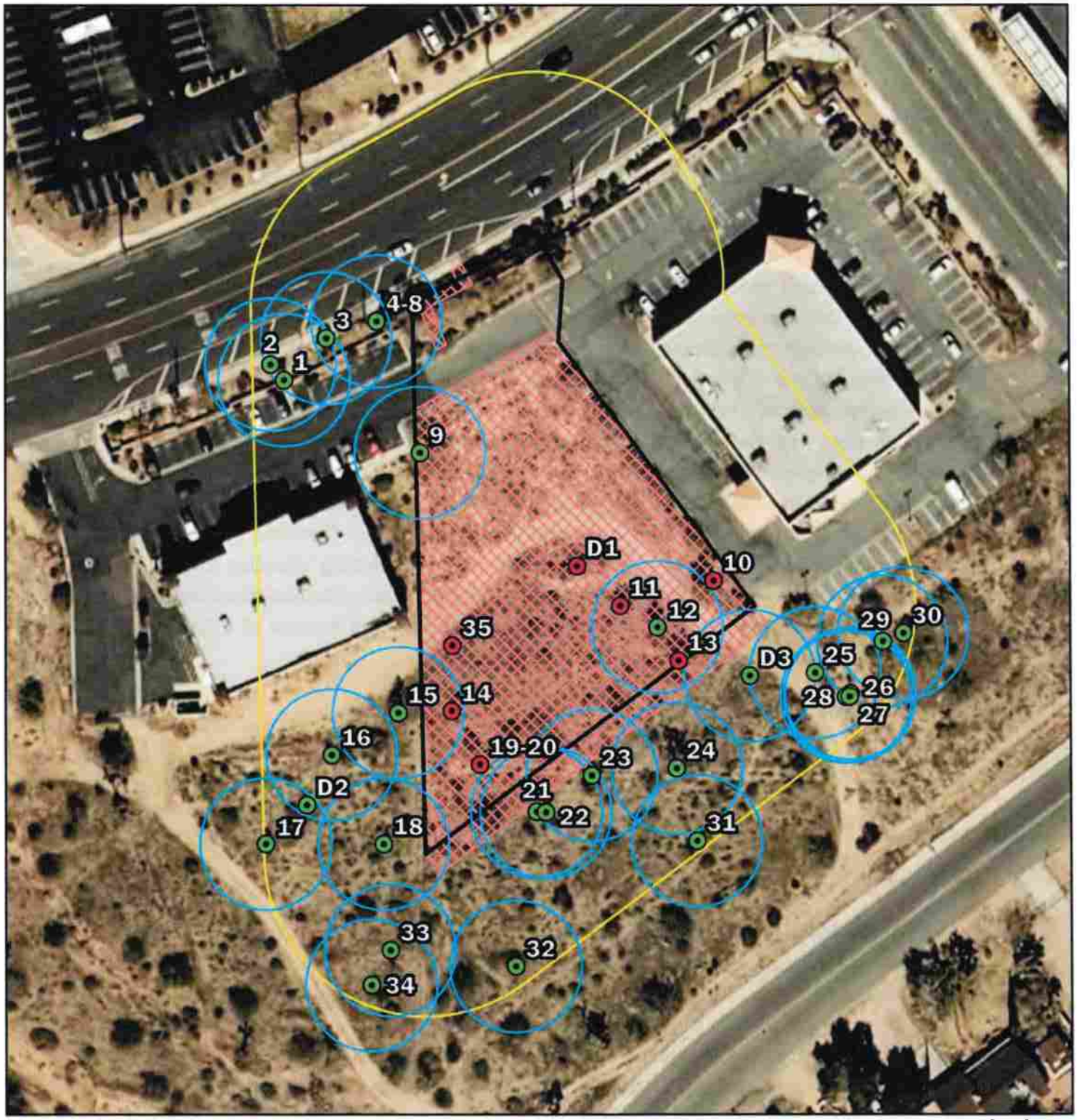
A total of 38 Joshua trees were identified in the survey area. Detailed findings are detailed in the data matrix in Appendix A, including the latitude and longitude, size class, health, maturity, flowers/fruits, impacts, if is within 15-meters of the development, tree heights, canopy width, and structure. Table 1 below summarizes the results of the survey and the tree locations are shown in Figure 1. Photographs of the trees are in Appendix B.

Table 1. Summary of Western Joshua Tree Inventory

Size Class (height)	# of Joshua Trees	Live	Dead	Mature	Fruits/Flowers	Within 15m of project	Removals
Class A <1m	3	3	0	0	0	0	0
Class B 1m-5m	32	29	3	27	22	19	8
Class C >5m	3	3	0	3	3	3	0
Total	**38**	**35**	**3**	**30**	**25**	**22**	**8**

Of the 38 Joshua trees surveyed, 3 were Class A, 32 Class B, and 3 Class C. A total of 3 Joshua trees were dead (labeled D1-D3) and 35 were mature live trees. Of the mature live trees, 25 had fruits or flowers. There are 22 Joshua trees within 15-meters of the proposed project footprint and 8 of those would be removed by the project because they are within the development footprint. Removals include 0 Class A, 8 Class B (#10, #11, #13, #14, #19, #20, #35, D1), and 0 Class C. An additional 2 Joshua trees (#9 and #12) are within the project site but will remain within landscaping after the project is built, and these would be heavily encroached into the 15 meter buffer by development. As shown in the Site Plan in Appendix C, these Joshua trees will be fenced during construction of the project to protect them from potential inadvertent impacts. Another 12 Joshua trees (#4-#8, #15, #18, #21-#24, D3) are outside the project site but will be encroached within a 15 meter buffer by the project construction. Protective fencing shown in the Site Plan in Appendix C will be installed between these Joshua trees and the project site during construction to avoid inadvertent impacts to these trees.

Overall the population of Joshua trees within the survey area is healthy, with very few dead trees and a mix of size classes and observations of fruits and flowers indicate that the Joshua trees are regenerating naturally on the site. The number of removals proposed by the project is 18% of the number surveyed, however, there are numerous other Joshua trees surrounding the survey area that are contiguous plant communities with that found on the site, and the relative number of removals to those in the region is very small. The removal of 8 Joshua trees is insignificant in relation to the number that are found in the immediate area.



Source: ESRI Aerial Map 2025

Yucca Valley Dutch Bros Project

Figure 1. Joshua Tree Inventory

0 50 100 Feet

N

Scale: 1:991

- Joshua Trees to be Removed
- Joshua Trees to Remain
- 15m buffer
- Project Site
- Survey Area
- Project Footprint

SOUTH ENVIRONMENTAL

4.Recommendations and Conclusions

4.1 Permitting and Mitigation Fees

Due to the proposed removal of eight (8) Joshua trees for the project, it will require a permit from the California Department of Fish and Wildlife (CDFW) prior to removing the trees. To obtain the permit the applicant must complete a permit application and submit the application and Joshua tree inventory to the CDFW Region 6 Office via the online permitting system. This permit will require coordination with both the County of San Bernardino and CDFW to determine the number of Joshua trees that the agencies would require for transplanting to areas outside of the development. However, there is an in-lieu fee program that allows for a fee-based mitigation for removal of Joshua trees and these same mitigation fees could be applied to all of the Joshua trees that are encroached within 15-meters as determined by the agencies. Therefore, these estimated fees are subject to change per the requirements of the permitting agencies following an assessment of the project impacts to Joshua trees.. The 2025 Western Joshua Tree Conservation Act Incidental Take Permit annual mitigation fees for the proposed removal of 8 Joshua trees within the standard fee area is a total of $4,072.00 as follows:

- 0 Class A trees x $346.00 = $0.00
- 8 Class B trees x $509.00 = $4,072.00
- 0 Class C trees x $2,544.75 = $0.00

4.1.1 Joshua Tree Avoidance During Construction

- South Environmental recommends installing temporary protective fencing between the project workspace and each Joshua tree during construction of the project. The fencing would be high-visibility fencing placed at a minimum 15-meter buffer zone prior to start of construction (or at the distance that is permitted for trees closer to the site). No work or project activities shall occur within the fenced area and all work shall occur outside of the proposed Joshua tree buffers. Fencing would help prevent compaction and/or contamination of soil and root zone.
- During construction, heavy equipment and vehicles shall be operated in accordance with standard Best Management Practices (BMPs). For example, all equipment used in the workspace shall be properly maintained such that no leaks of oil, fuel, or residues will take place. Provisions shall be in place to remediate any accidental spills. Implementation of

the BMPs will help minimize the potential for impact to Joshua trees both within and outside the Joshua tree buffer zones.

- Night work should be avoided to ensure no disturbance of pollinators or photoperiods for the remaining Joshua trees.

4.2 Conclusion

A total of 38 Joshua trees were identified by South Environmental within the project survey area. A total of 8 Joshua trees are proposed for removal by the project, which would require a permit from CFDW. In-lieu fees for the loss of the 8 Joshua trees would be a minimum of $4,072.00, but overall mitigation would be determined by CDFW and San Bernardino County and could include relocation of some or all of the trees that are proposed for removal. The project would need to obtain the permit prior to removal of the trees and prior to start of construction of the project. Additional mitigation is recommended by South Environmental including installation of protected fencing around the remaining Joshua Trees during construction, BMPs to avoid damaging trees or root zones, and limiting construction to daytime hours.

If you have any questions regarding the information in this report, please contact Matthew South by email: msouth@southenvironmental.com or by mobile phone: 303-818-3632.

Sincerely,

Matthew R. South
Principal Biologist

References

Bowns, J.E. 1973. An Auto-ecological Study of Blackbrush (*Coleogyne ramosissima* torr.) in southwestern Utah, All Graduate Theses and Dissertations, 1442, Utah State University, Logan Utah.

County of San Bernardino. 2007. San Bernardino County Joshua Tree Community Plan, San Bernardino, California.

Rundel, P.W. Personal communication, August 13-18, 2021. University of California, Los Angeles, California.

State of California. Western Joshua Tree Conservation Act, Senate Bill 122, Chapter 11.5 added to Division 2 of the Fish and Game Code.

Appendix A: Joshua Tree Data Matrix

Tree ID	Latitude	Longitude	Size Class	Health	Mature (Y/N)	Flowers/ Fruit (Y/N)	Impact	Within 15m of Tree	Canopy (ft)	Structure
1	34.127978	-116.3963407	1-5	3	Y	Y			7	3
2	34.128005	-116.3963673	<1	5	N	N			<1	3
3	34.128045	-116.3962512	1-5	5	Y	Y			25	3
4	34.128071	-116.3961467	1-5	5	N	N		Y	1	3
5	34.128071	-116.3961467	1-5	4	N	N		Y	1	3
6	34.128071	-116.3961467	1-5	4	N	N		Y	3	3
7	34.128071	-116.3961467	1-5	5	Y	Y		Y	5	3
8	34.128071	-116.3961467	1-5	4	Y	Y		Y	20	3
9	34.127847	-116.3960683	1-5	3	Y	Y		Y	15	2
10	34.127612	-116.3954786	1-5	5	Y	Y	Removal	Y	30	3
11	34.127575	-116.3956722	1-5	5	Y	Y	Removal	Y	8	3
12	34.127537	-116.3955974	>5	5	Y	Y		Y	15	3
13	34.127479	-116.3955569	1-5	3	Y	Y	Removal	Y	20	2
14	34.127408	-116.3960243	1-5	3	Y	N	Removal	Y	5	3
15	34.127409	-116.3961341	>5	5	Y	Y		Y	25	3
16	34.127342	-116.3962734	1-5	2	Y	N			12	1
17	34.127195	-116.3964154	1-5	3	Y	Y			20	2
18	34.127188	-116.396175	1-5	3	Y	Y		Y	15	3
19	34.127316	-116.3959713	1-5	4	N	N	Removal	Y	1	3
20	34.127316	-116.3959713	1-5	5	Y	Y	Removal	Y	5	3
21	34.127233	-116.3958595	1-5	5	Y	Y		Y	8	3
22	34.127231	-116.3958409	1-5	4	Y	Y		Y	6	2
23	34.12729	-116.395744	1-5	5	Y	Y		Y	25	3
24	34.127297	-116.3955698	>5	4	Y	Y		Y	30	3
25	34.127449	-116.3952777	1-5	3	Y	Y			15	3
26	34.127412	-116.3952069	1-5	5	Y	Y			7	3
27	34.127407	-116.3952162	<1	5	N	N			<1	3
28	34.127407	-116.3952088	<1	5	N	N			<1	3
29	34.127498	-116.3951366	1-5	3	Y	Y			15	2
30	34.127511	-116.3950936	1-5	4	Y	Y			20	3
31	34.127173	-116.3955338	1-5	4	Y	Y			12	3
32	34.126973	-116.3959148	1-5	5	Y	Y			7	3
33	34.127008	-116.3961694	1-5	5	Y	Y			12	3
34	34.12695	-116.3962109	1-5	3	Y	Y			15	3
35	34.127514	-116.396005	1-5	3	Y	Y	Removal	Y	-	3
D1	34.12764	-116.3957453	1-5	1	Y		Removal	Y	-	1
D2	34.127453	-116.396316	1-5	1	N				-	1
D3	34.127443	-116.3953998	1-5	1	Y			Y	-	1

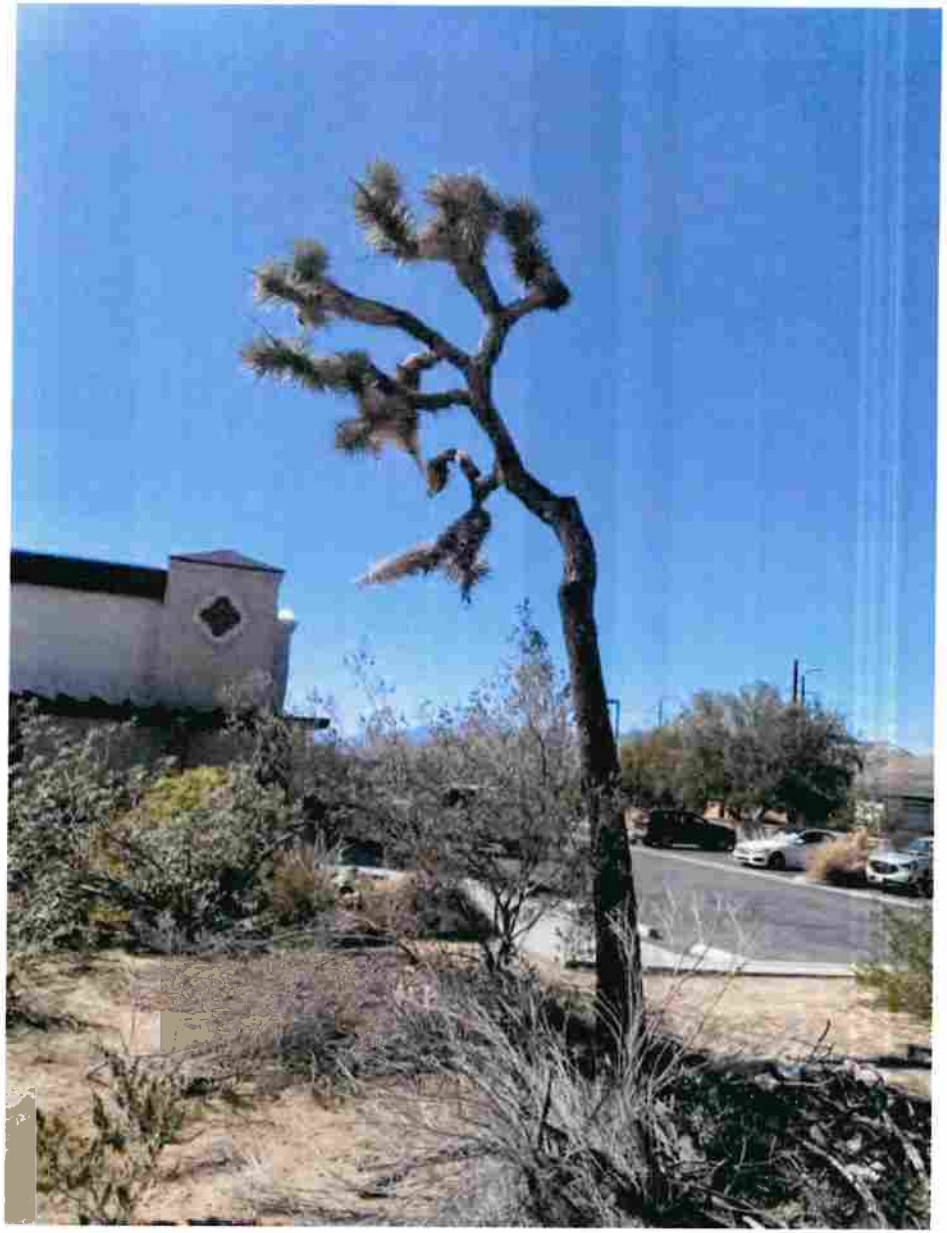
Appendix B: Photograph Exhibit

Joshua Trees 01-02

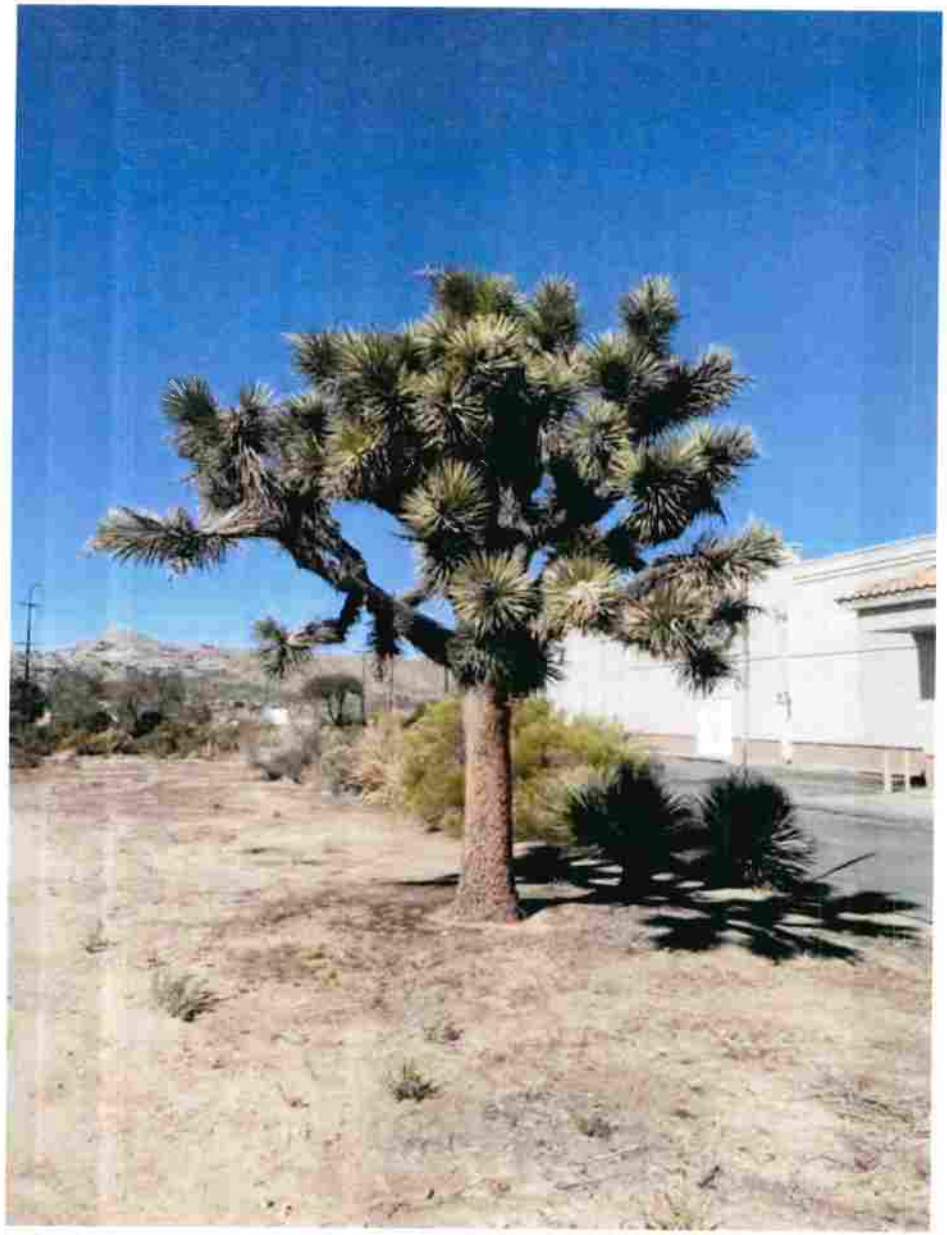
Joshua Tree 03

Joshua Trees 04-08

Joshua Tree 04



Joshua Tree 09



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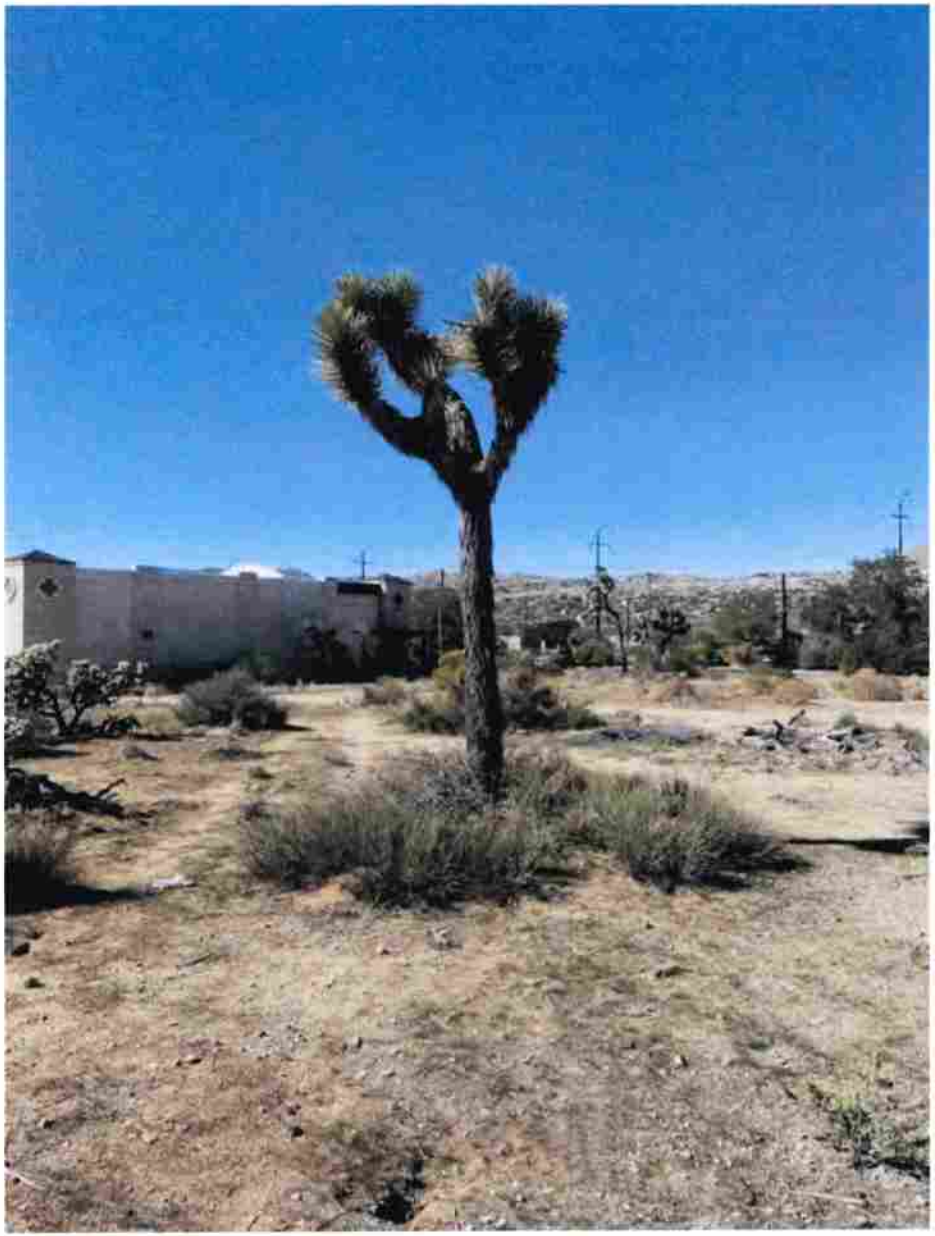

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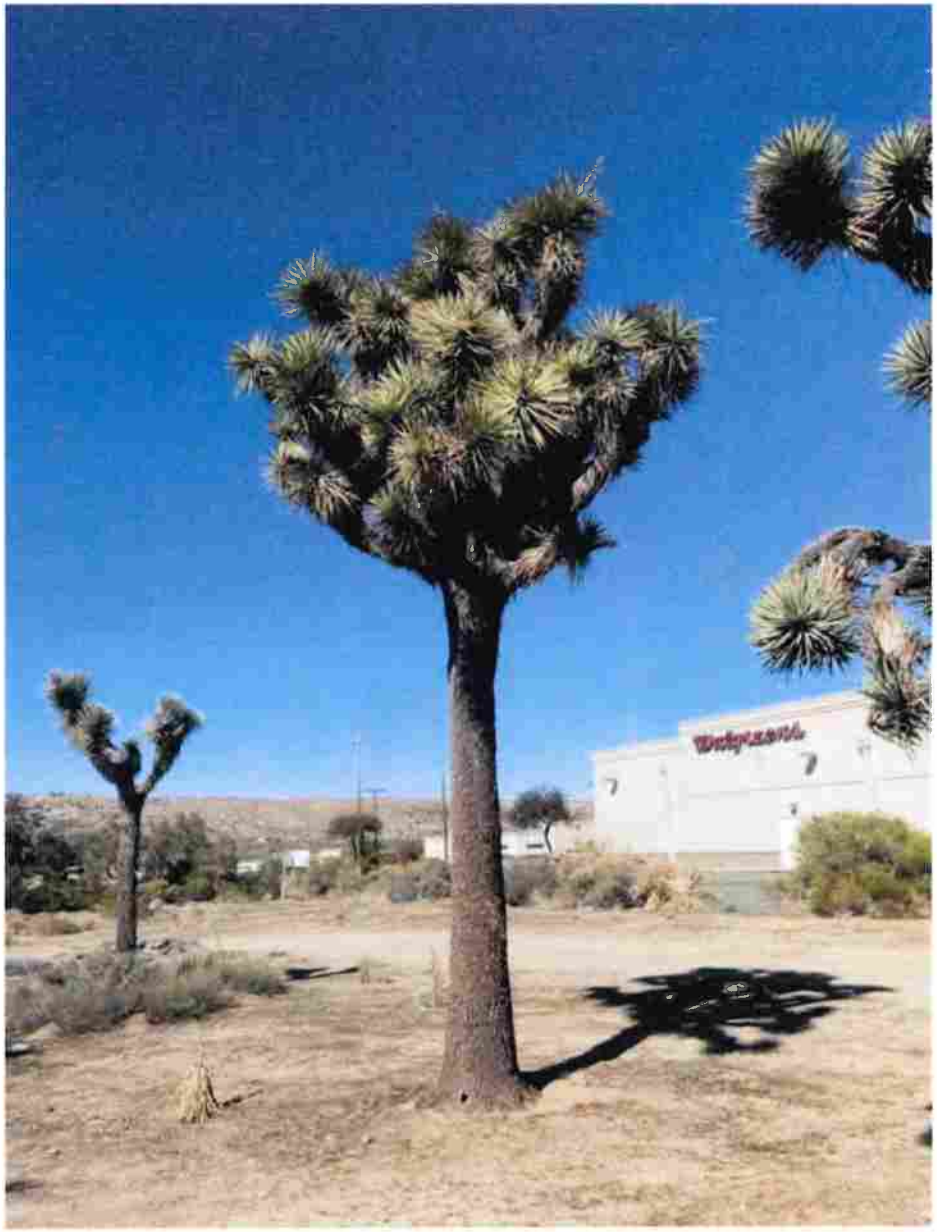
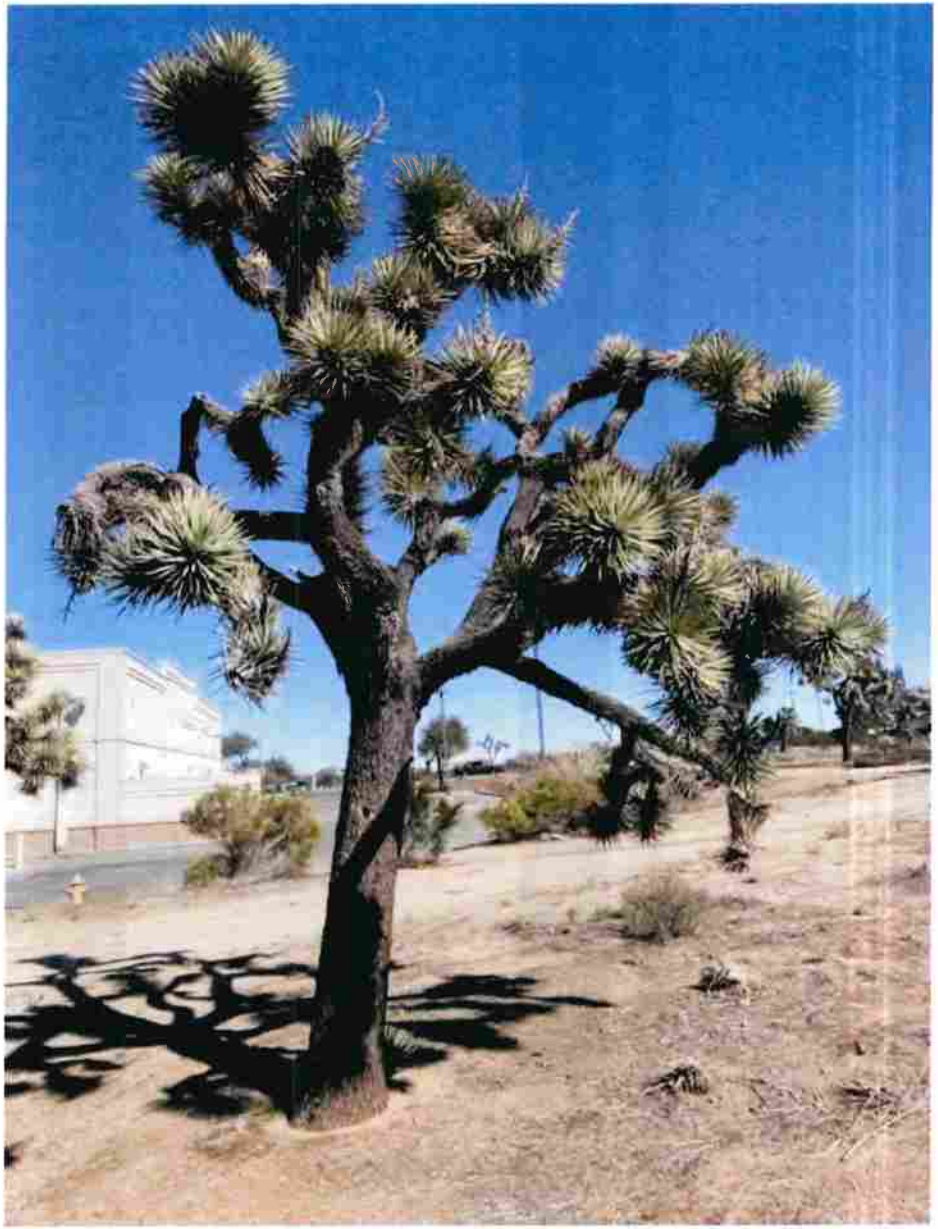


Joshua Tree 012



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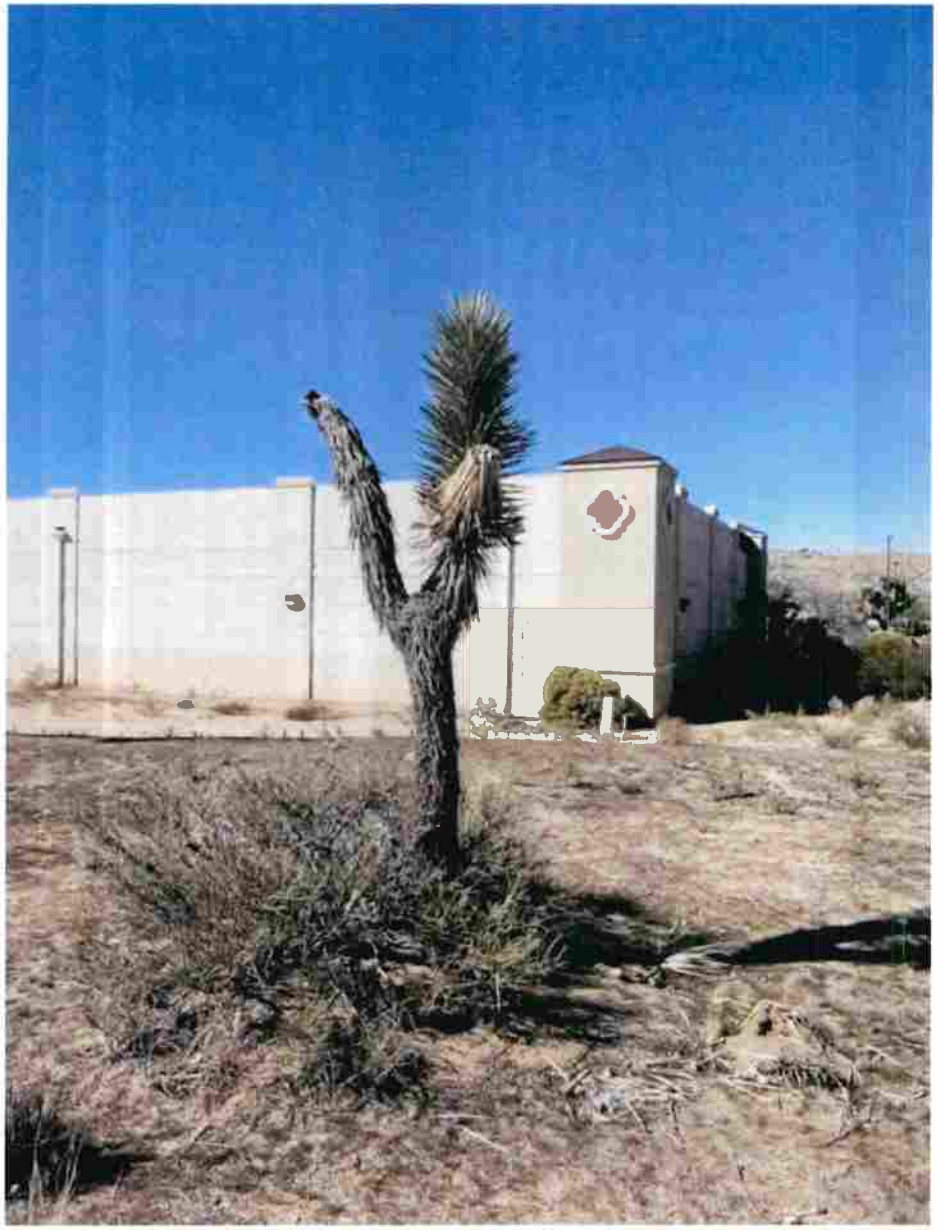
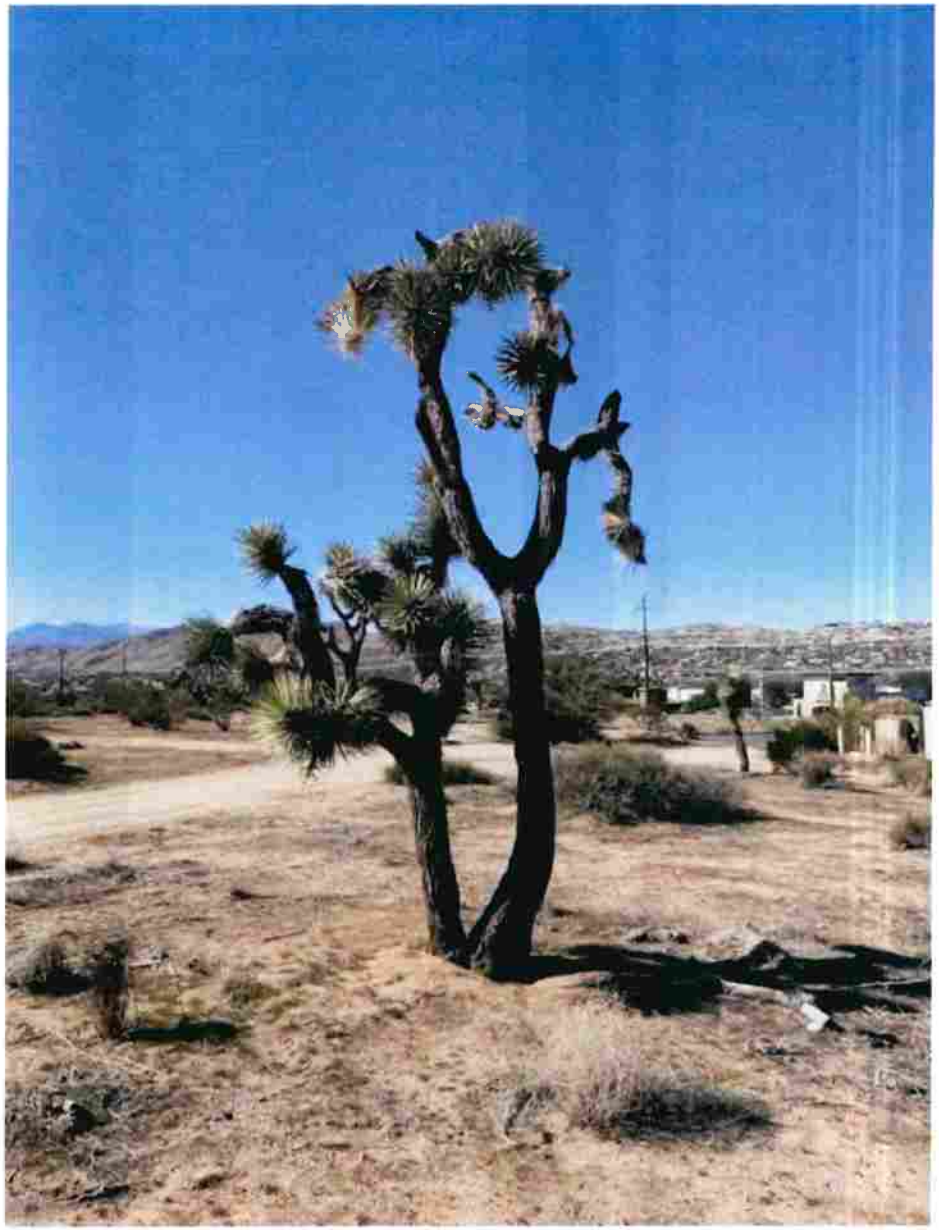


Joshua Tree 14

Joshua Tree 15

Joshua Tree 16



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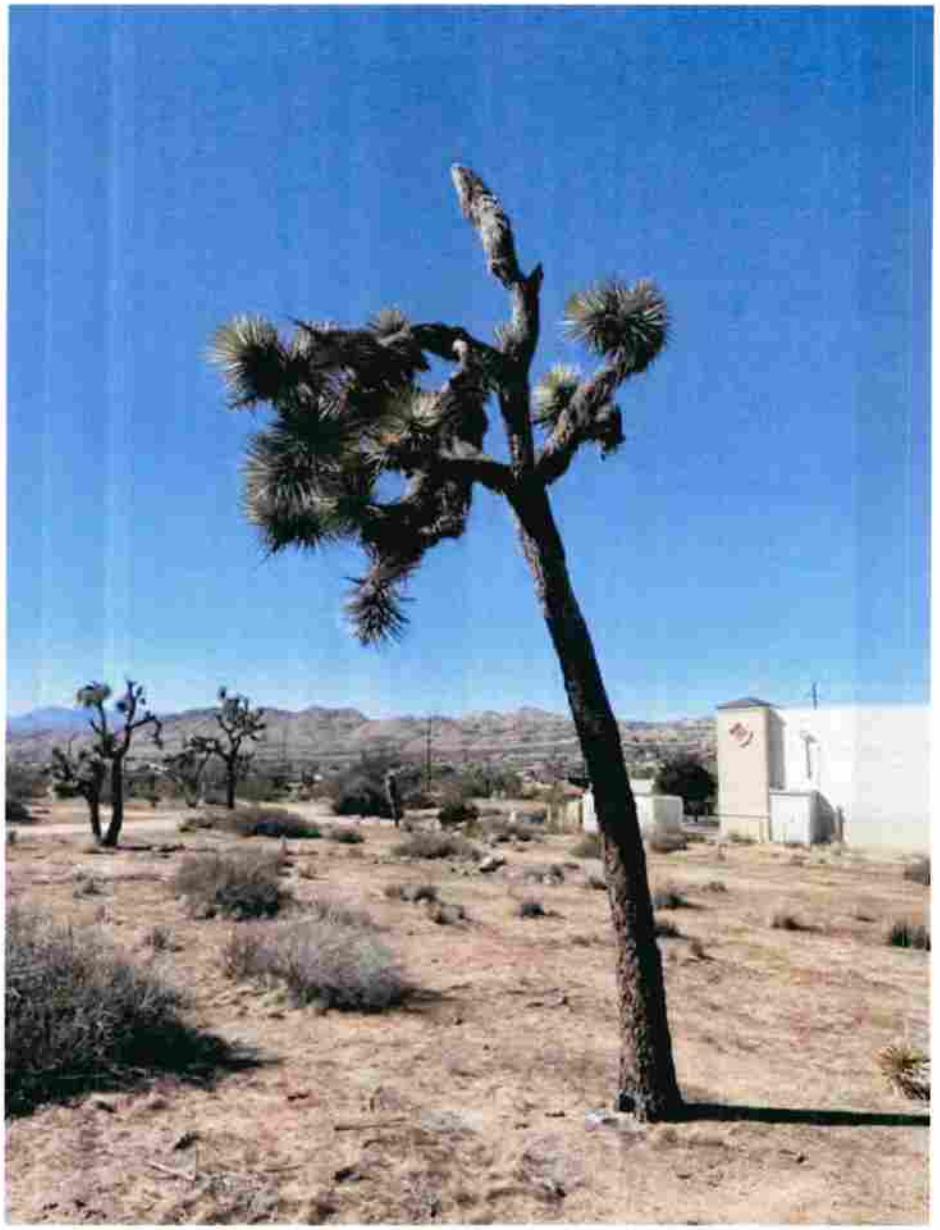
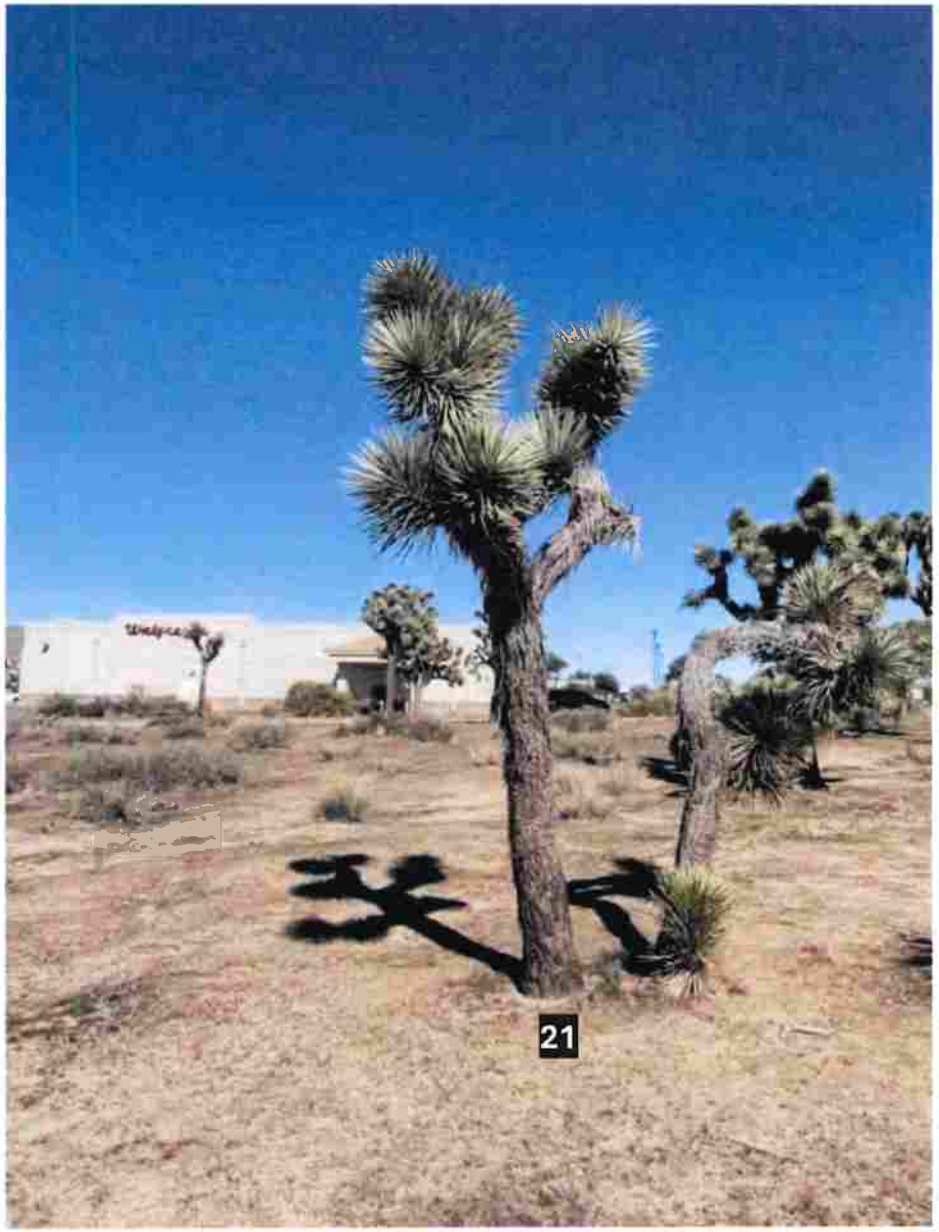


Joshua Tree 18

Joshua Trees 19-20



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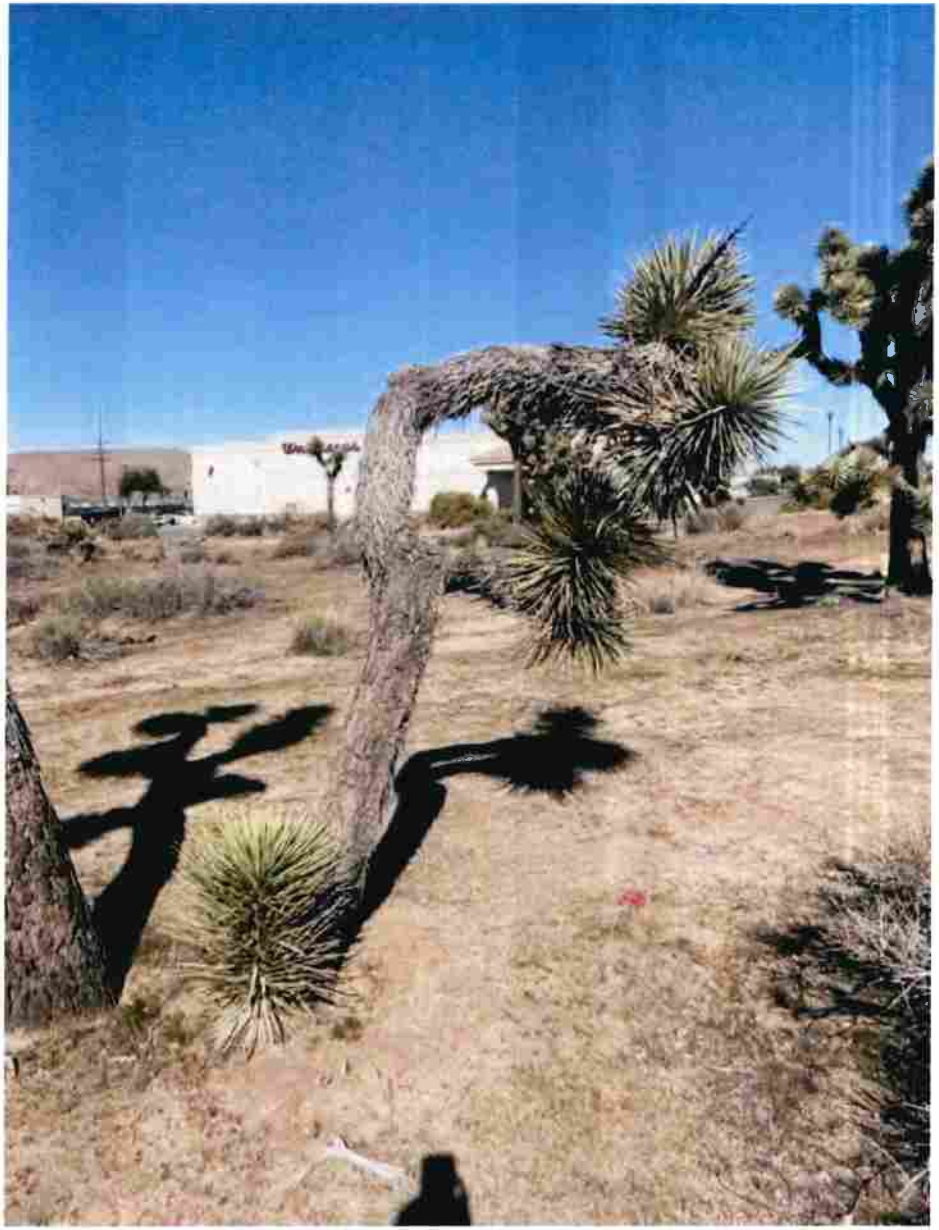
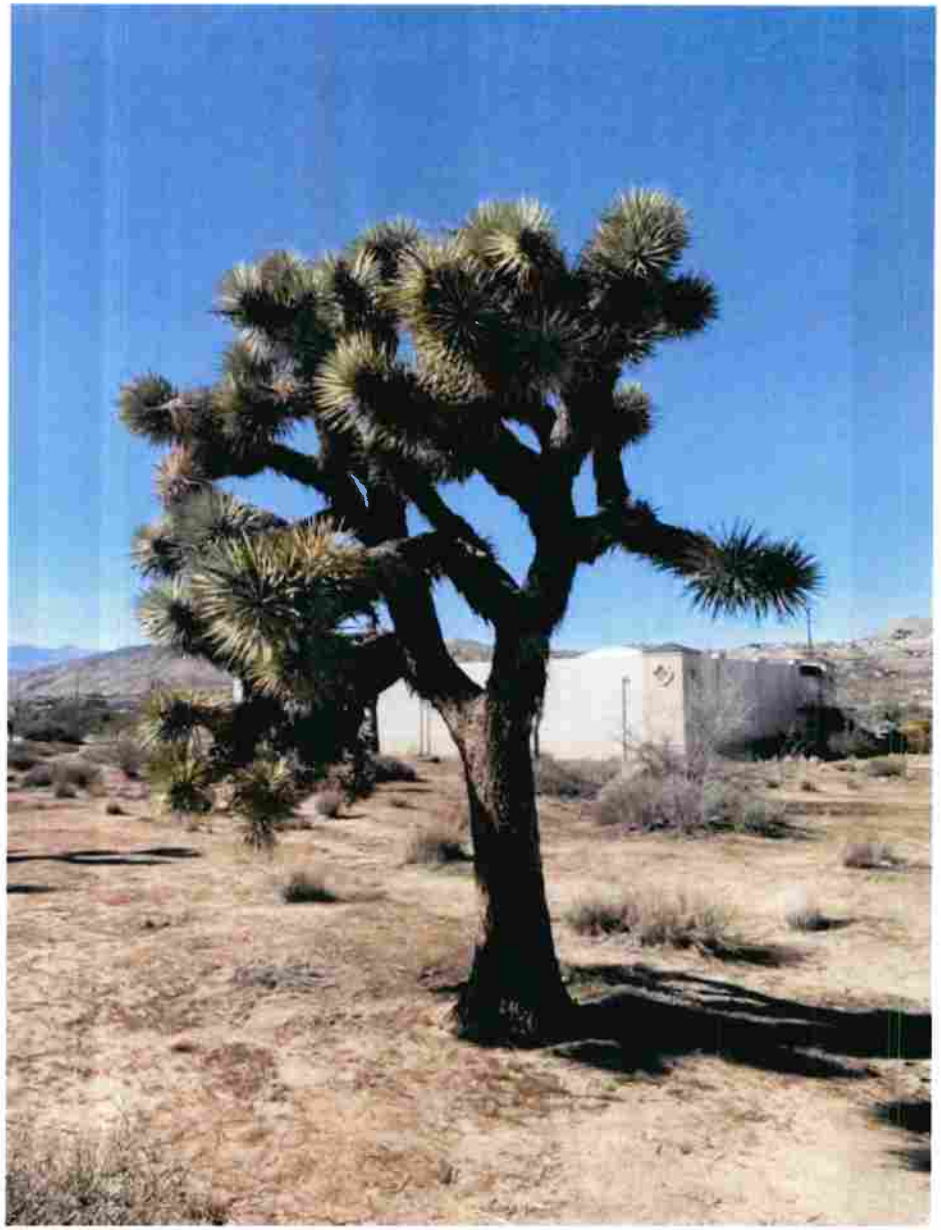


Joshua Tree 22



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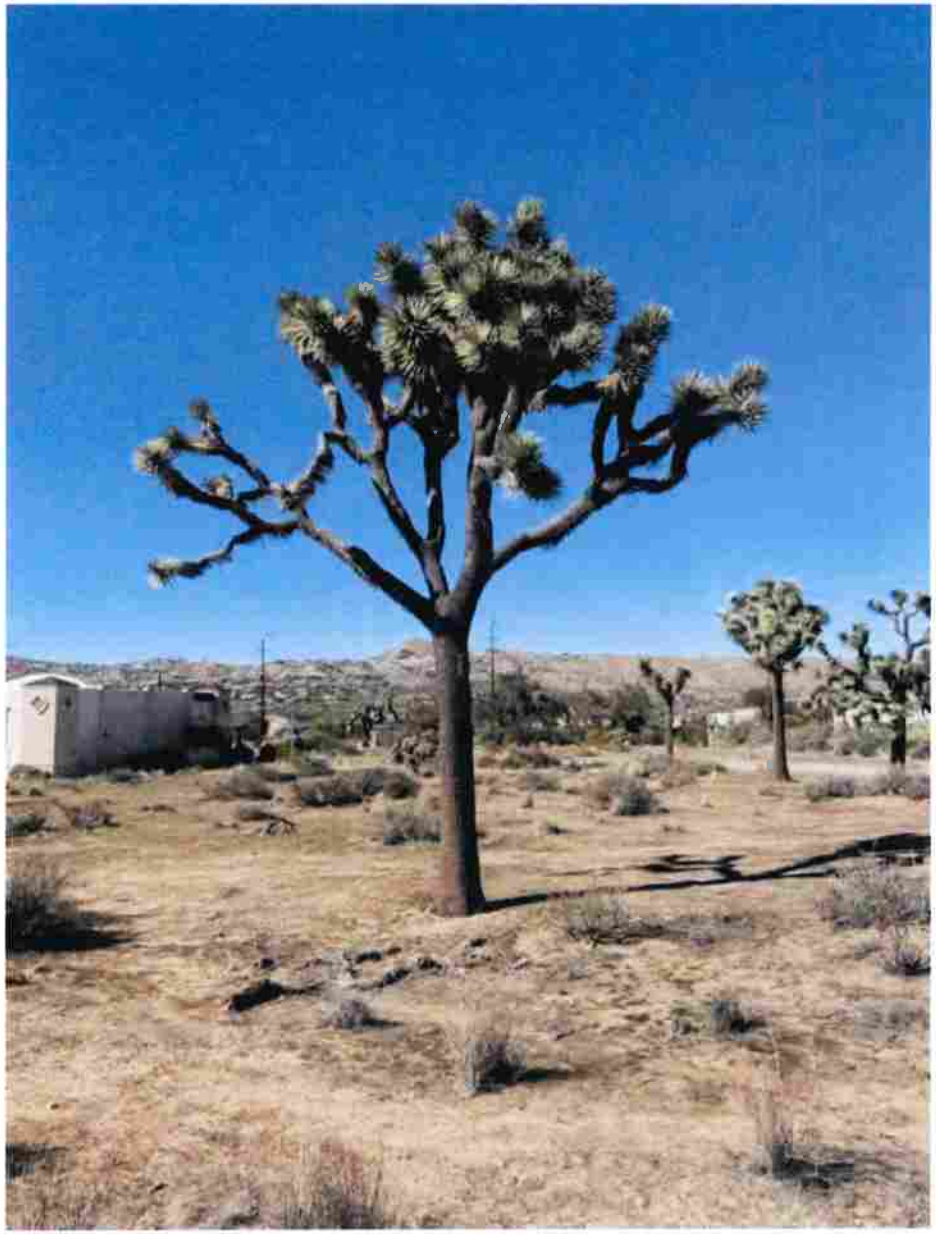
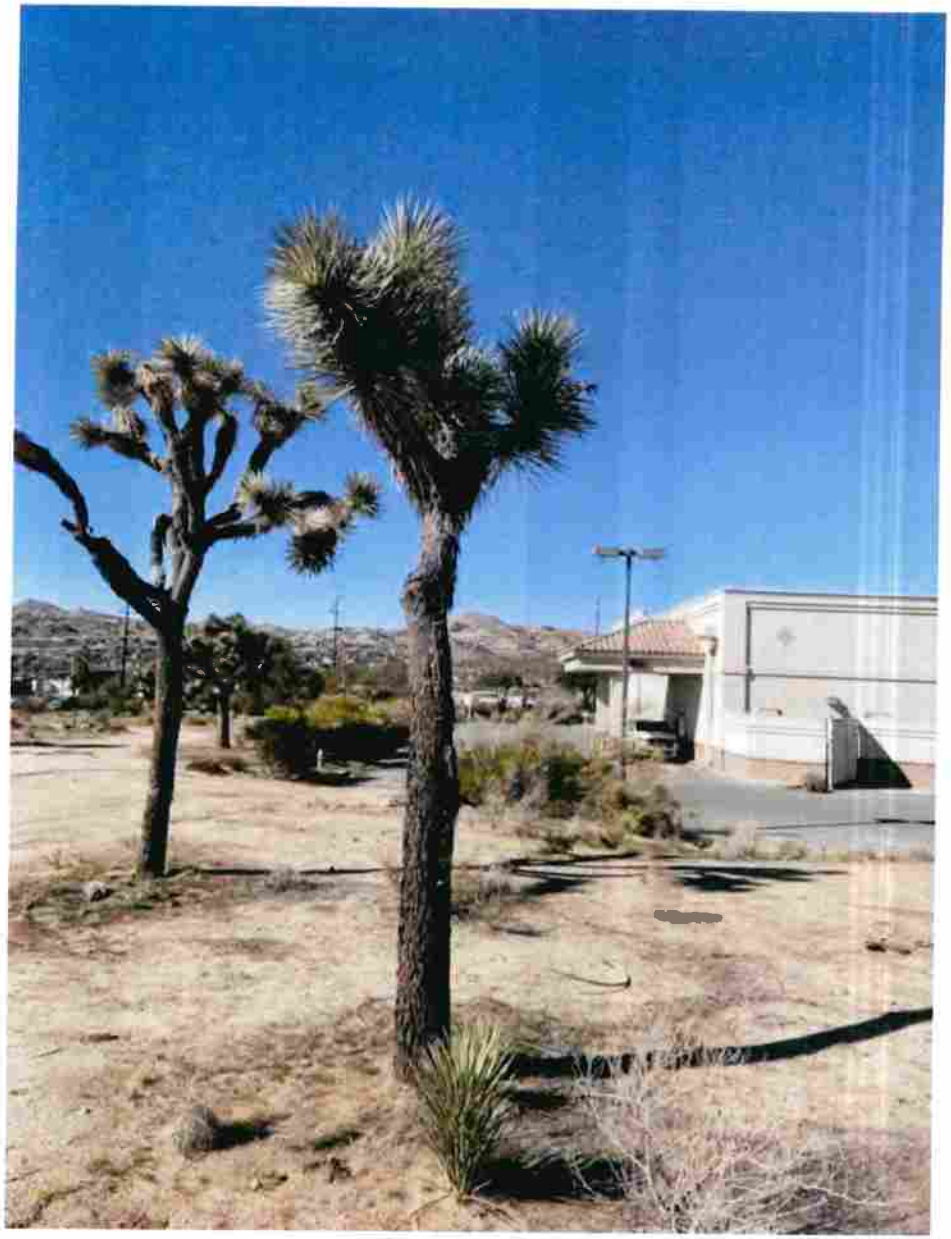


Joshua Tree 24

Joshua Trees 25



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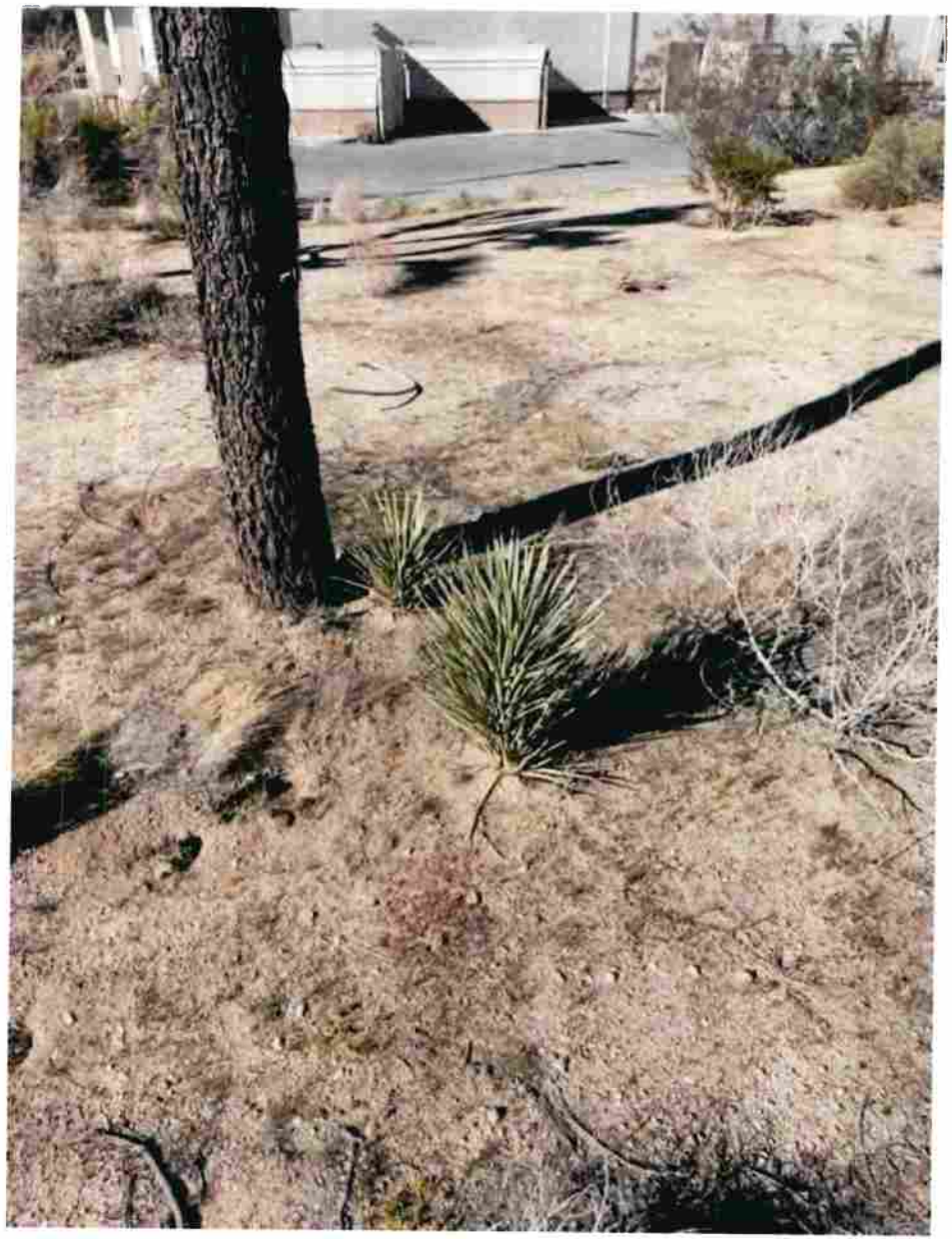
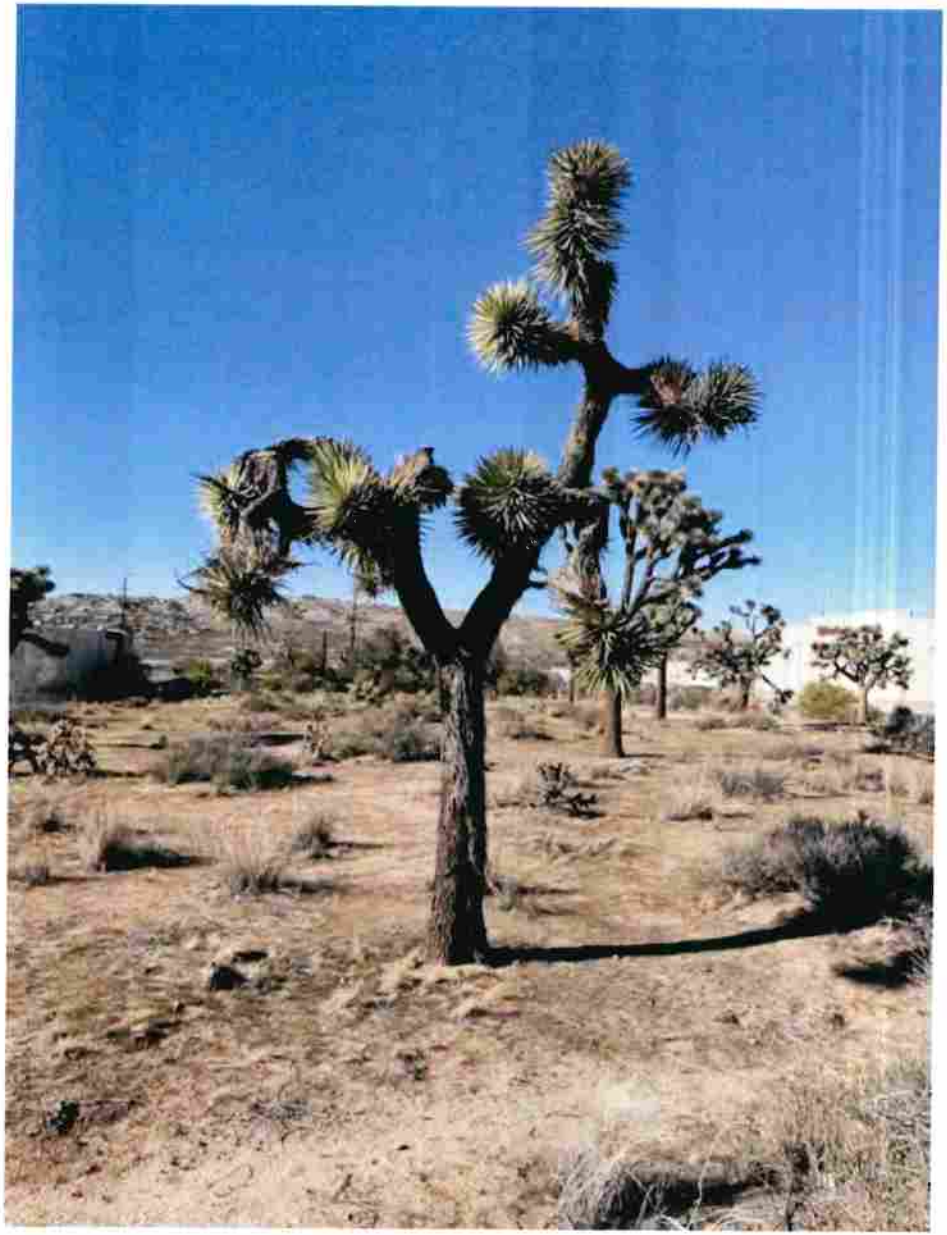


Joshua Trees 27-28

Joshua Tree 29

Joshua Tree 30



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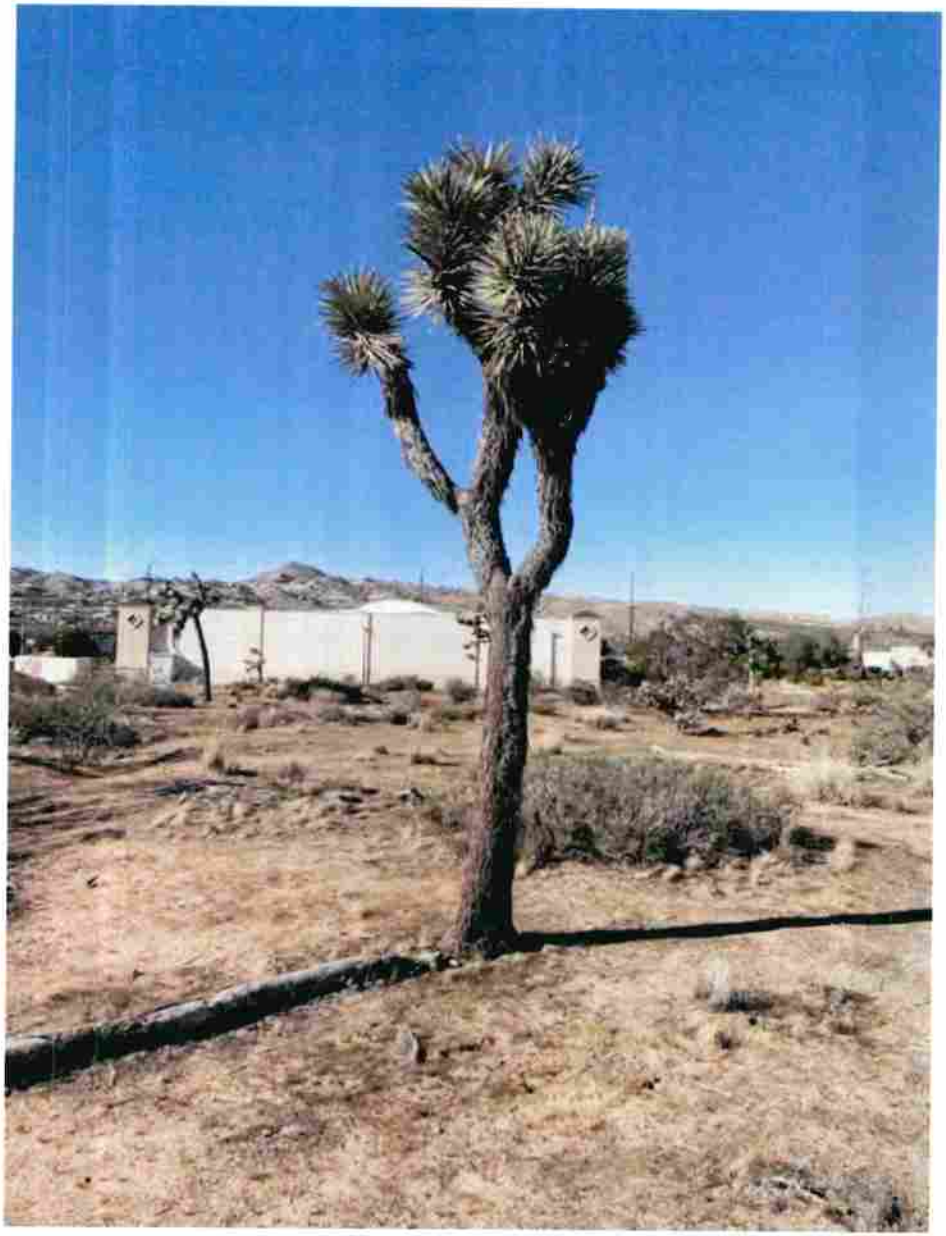
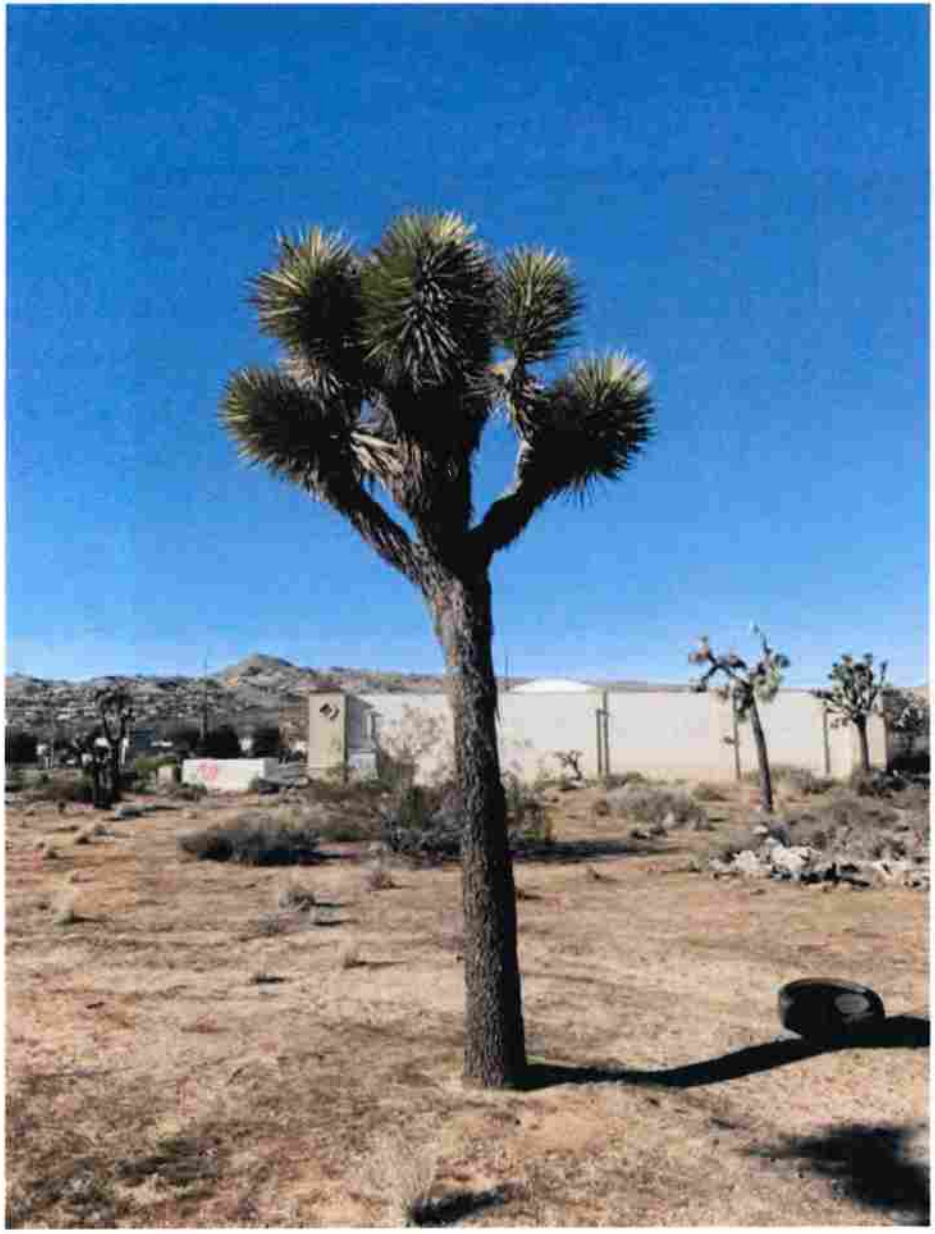


Joshua Tree 32



Joshua Tree 33

Joshua Tree 34

Joshua Tree 35

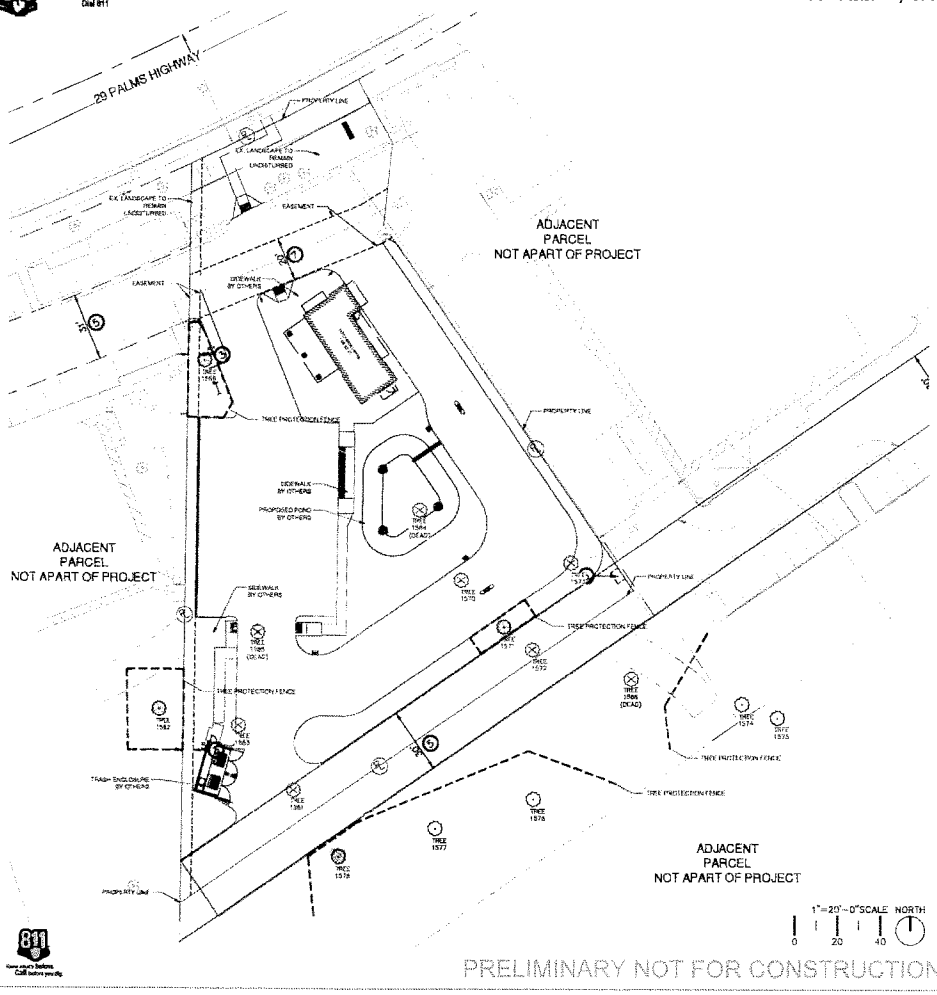
Joshua Tree D1

Joshua Tree D2

Joshua Tree D3

Appendix C: Site Plan

DUTCH BROS. COFFEE - CA3714 - YUCCA VALLEY, CA



PRELIMINARY NOT FOR CONSTRUCTION

PROJECT TEAM

LANDSCAPE ARCHITECT:

EVERGREEN DESIGN GROUP
13870 VON KARMAN, STE 150
IRVINE, CA 92614
909-980-6892
WWW.EVERGREENDESIGNGROUP.COM
CONTACT: BLAKE TOMLINSON-WHEATHRE, PLA
EMAIL: BLAKE@EVERGREENDESIGNGROUP.COM

ARBORIST:
DESERT ARBORIST SERVICES
PO BOX 1568
PALM SPRINGS, CA 92263
CONTACT: WARREN MILLER ISA#WE-3001A
T: 760.329.5236
E: ARBORTECH_SERVICES@YAHOO.COM
W: WWW.DESERTARBORISTSERVICES.COM

NATIVE PLANT & TREE CALCULATIONS

NATIVE TREES ON-SITE:	15 TREES
NATIVE TREES - DEAD TO BE REMOVED	3 TREES
NATIVE TREES - TO BE TRANSPLANTED:	0 TREES
NATIVE TREES - TO BE REMOVED	9 TREES
NATIVE TREES - TO REMAIN (PROTECTIN PLACE)	6 TREES

LEGEND

EXISTING TREES TO BE PROTECTED IN PLACE
TREE PROTECTION FENCE
EXISTING TREE TO BE REMOVED

NATIVE PLANT DOCUMENTATION SURVEY TABLE

Joshua Tree Survey Data						
Waypoint	Tree Type	Quantity	Diameter	Height	Health	DISPOSITION
1569	Joshua Tree	1	9.5"	22ft	Good	REMAIN
1570	Joshua Tree	1	10"	15ft	Good	REMOVE
1571	Joshua Tree	1	16"	22ft	Good	REMAIN
1572	Joshua Tree	2	14"	18ft	Good	REMOVE
1573	Joshua Tree	1	16.5"	18ft	Good	REMOVE
1574	Joshua Tree	1	7.5"	16ft	Good	REMAIN
1575	Joshua Tree	2	7",1.5"	10ft	Good	REMAIN
1576	Joshua Tree	1	14"	20ft	Good	REMAIN
1577	Joshua Tree	1	18"	14ft	Good	REMAIN
1578	Joshua Tree	3	8",3",7"	9/2/6ft	Good	REMAIN
1581	Joshua Tree	3	6",3.5",2.5"	6/3.5/2.5ft	Good	REMOVE
1582	Joshua Tree	1	6"	8ft	Fair	REMAIN
1583	Joshua Tree	1	13"	18ft	Good	REMOVE
1584	Joshua Tree	Dead	Dead	Dead	Dead	REMOVE
1585	Joshua Tree	Dead	Dead	Dead	Dead	REMOVE
1586	Joshua Tree	Dead	Dead	Dead	Dead	REMOVE

NOTE: TREE PROTECTION FOR ANY PRESERVED OR RELOCATED TREES MUST BE PROVIDED PER DETAILS AND SPECIFICATIONS ON SHEET NP-2. THESE MUST BE UP PRIOR TO THE COMMENCEMENT OF ANY WORK AND MAINTAINED THROUGHOUT CONSTRUCTION.

NOTE: ALL TREE TRIMMING MUST BE APPROVED BY THE OWNER AND LOCAL JURISDICTION PRIOR TO COMMENCEMENT OF WORK. ALL TREE TRIMMING MUST BE DONE BY AN ISA CERTIFIED ARBORIST IN ACCORDANCE WITH LOCAL TREE PRESERVATION ORDINANCE.

Title: NATIVE PLANT PROTECTION PLAN
SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

Client: DUTCH BROS

Designed: ---
Drawn: ---
Checked: ---
Approved: ---
Date: ---

Bangham Consulting Engineers, LLC
Suite 12 2nd Avenue South
Perris, CA 92570
(424) 529-6222
bangham.com

Job Number: 23890
Sheet: NP-1

Plotted: 4/21/2026, 1:43 PM

DUTCH BROS. COFFEE - CA3714 - YUCCA VALLEY, CA

TREE PROTECTION SPECIFICATIONS

MATERIALS

1. FABRIC: 4 FOOT HIGH, ORANGE PLASTIC FENCING AS SHOWN ON THE PLANS AND SHALL BE WOVEN WITH 2 INCH MESH OPENINGS SUCH THAT IN A VERTICAL DIMENSION OF 23 INCHES ALONG THE DIAGONALS OF THE OPENINGS THERE SHALL BE AT LEAST 7 MESHES.
2. POSTS: POSTS SHALL BE A MINIMUM OF 72 INCHES LONG AND STEEL 'T' SHAPED WITH A MINIMUM WEIGHT OF 1.3 POUNDS PER LINEAR FOOT.
3. TIE WIRE: WIRE FOR ATTACHING THE FABRIC TO THE T-POSTS SHALL BE NOT LESS THAN NO. 12 GAUGE GALVANIZED WIRE.
4. USED MATERIALS: PREVIOUSLY USED MATERIALS MEETING THE ABOVE REQUIREMENTS AND WHEN APPROVED BY THE OWNER, MAY BE USED.

CONSTRUCTION METHODS

1. ALL TREES AND SHRUBS SHOWN TO REMAIN WITHIN THE PROXIMITY OF THE CONSTRUCTION SITE SHALL BE PROTECTED PRIOR TO BEGINNING ANY DEVELOPMENT ACTIVITY.
2. EMPLOY THE SERVICES OF A ISA (INTERNATIONAL SOCIETY OF ARBORICULTURE) CERTIFIED ARBORIST AND OBTAIN ALL REQUIRED PERMITS TO PRUNE THE EXISTING TREES FOR CLEARING, RAISING AND THINNING, AS MAY BE REQUIRED.
3. PROTECTIVE FENCING SHALL BE ERECTED OUTSIDE THE CRITICAL ROOT ZONE (CRZ, EQUAL TO 1' FROM THE TRUNK FOR EVERY 1" OF DBH) AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE LANDSCAPE CONSULTANT AND/OR CITY ARBORIST, AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS. FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. TREES IN CLOSE PROXIMITY SHALL BE FENCED TOGETHER, RATHER THAN INDIVIDUALLY.
4. PROTECTIVE FENCE LOCATIONS IN CLOSE PROXIMITY TO STREET INTERSECTIONS OR DRIVES SHALL ADHERE TO THE APPLICABLE JURISDICTION'S SIGHT DISTANCE CRITERIA.
5. THE PROTECTIVE FENCING SHALL BE ERECTED BEFORE SITE WORK COMMENCES AND SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PHASE.
6. THE INSTALLATION POSTS SHALL BE PLACED EVERY 6 FEET ON CENTER AND EMBEDDED TO 18 INCHES DEEP. MESH FABRIC SHALL BE ATTACHED TO THE INSTALLATION POSTS BY THE USE OF SUFFICIENT WIRE TIES TO SECURELY FASTEN THE FABRIC TO THE T-POSTS TO HOLD THE FABRIC IN A STABLE AND UPRIGHT POSITION.
7. WITHIN THE CRZ
   a. DO NOT GRADE, FILL OR GRADE IN THE CRZ OF ANY TREE.
   b. DO NOT STORE, STOCKPILE OR CLEAN ANY JOB MATERIAL, SOIL OR RUBBISH UNDER THE SPREAD OF THE TREE BRANCHES.
   c. DO NOT PARK OR STORE ANY EQUIPMENT OR SUPPLIES UNDER THE TREE CANOPY.
   d. DO NOT SET UP ANY CONSTRUCTION OPERATIONS UNDER THE TREE CANOPY (SUCH AS WIRE CUTTING AND THREADING, MORTAR MIXING, PAINTING OR LUMBER CUTTING).
   e. DO NOT NAIL OR ATTACH TEMPORARY SIGNS, METERS, SWITCHES, VARES, BRACING OR ANY OTHER ITEM TO THE TREES.
   f. DO NOT PERMIT RUNOFF FROM WASTE MATERIALS INCLUDING EQUIVALENT, CONCRETE WASHOUTS, ASPHALT TACK COATS (MC-30 OR L-STE) TO ENTER THE CRZ. BARRIERS ARE TO BE PROVIDED TO PREVENT SUCH RUNOFF. SUMP AREAS FROM ENTERING THE CRZ WHENEVER POSSIBLE, INCLUDING IN AN AREA WHERE RAIN OR SURFACE WATER COULD CARRY SUCH MATERIALS TO THE ROOT SYSTEM OF THE TREE.
8. ROUTE UNDERGROUND UTILITIES TO AVOID THE CRZ. IF DIGGING IS UNAVOIDABLE, BORE UNDER THE ROOTS, OR HAND DIG TO AVOID severing THEM.
9. WHERE EXCAVATION IN THE VICINITY OF TREES MUST OCCUR, SUCH AS FOR IRRIGATION INSTALLATION, PROCEED WITH CAUTION, AND USING HAND TOOLS ONLY.
10. THE CONTRACTOR SHALL NOT CUT ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATION OCCURS NEAR EXISTING TREES. ALL ROOTS LARGER THAN ONE INCH IN DIAMETER ARE TO BE CUT CLEANLY. FOR CUTS ONLY, ALL WOUNDS SHALL BE PAINTED WITH WOUND SEALER WITHIN 30 MINUTES.
11. REMOVE ALL TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS BY HAND.
12. TREES DAMAGED OR KILLED DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED AT THE CONTRACTOR'S EXPENSE AND TO THE PROJECT OWNERS AND LOCAL JURISDICTION'S SATISFACTION.
13. ANY TREE REMOVAL SHALL BE APPROVED BY THE OWNER AND LOCAL JURISDICTION PRIOR TO ITS REMOVAL AND THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS FOR SUCH ACTIVITIES.
14. COVER EXPOSED ROOTS AT THE END OF EACH DAY WITH BURLAP, MULCH OR WET BURLAP.
15. IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DURING CONSTRUCTION AND WHERE HEAVY TRAFFIC IS ANTICIPATED, COVER THE SOIL WITH EIGHT INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. THIS EIGHT INCH DEPTH OF MULCH SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
16. WATER ALL TREES IMPACTED BY CONSTRUCTION ACTIVITIES, DEEPLY ONCE A WEEK DURING PERIODS OF HOT DRY WEATHER. SPRAY TREES CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
17. WHEN MIXING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.
18. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREE PROTECTION FENCING WHEN ALL THREATS TO THE EXISTING TREES FROM CONSTRUCTION-RELATED ACTIVITIES HAS BEEN REMOVED.

TREE PROTECTION GENERAL NOTES

(A)
(B)
(C)
(D)
(E)
(F)

TREE RELOCATION GUIDELINES

1. TREES SHALL NOT BE UNNECESSARILY DAMAGED DURING REMOVAL, TRANSPORT OR REPLANTING OF THE TREE.
2. IF THE TREE HAS A DORMANT PERIOD, THEY SHOULD BE TRANSPLANTED DURING THAT TIME. TREES SHOULD NOT BE TRANSPLANTED DURING PERIODS OF STRONG WINDS, DRY WINTER WINDS OR DURING DROUGHT.
3. ADEQUATE SPACES FOR ROOT AND CROWN DEVELOPMENT SHALL BE PROVIDED.
4. TREES SHALL BE ROOT AND CANOPY PRUNED IN ACCORDANCE WITH ISA/ARBORICULTURAL STANDARDS PRIOR TO TRANSPLANTING.
5. DURING AND FOLLOWING TRANSPLANTING, THE ROOT BALL AND TRUNK SHALL BE PROTECTED. THE ROOT BALL MUST BE KEPT MOIST AT ALL TIMES.
6. TRANSPLANTED TREES SHALL BE BRACED FOR A MINIMUM OF ONE (1) YEAR.
7. TRANSPLANTED TREES SHALL NOT BE FERTILIZED AT PLANTING TIME, BUT SHALL BE WATERED SUFFICIENTLY UNTIL THE TREE GROWTH IS RETSET ASSUMED.
8. ALL CROWN PRUNING SHALL BE DONE IN ACCORDANCE WITH "THE AMERICAN NATIONAL STANDARDS INSTITUTE A-300, TREE SHRUB AND OTHER WOODY PLANT MAINTENANCE-STANDARD PRACTICES", AND "Z-133.1 PRUNING, REPAIRING, MAINTAINING AND REMOVING TREES, AND CUTTING BRUSH-SAFETY REQUIREMENTS" OR PALM PRUNING IN ACCORDANCE WITH THE STANDARDS IN "RICHARD HARRIS, "ARBORICULTURE: INTEGRATED MANAGEMENT OF LANDSCAPE TREES, SHRUBS AND VINES", AS AMENDED.
9. CONTRACTOR IS RESPONSIBLE FOR REGULAR WATERING AND MAINTENANCE OF TRANSPLANTED TREES DURING STORAGE PERIOD.

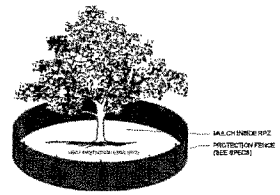
TREES THAT ARE INVICED TO BE PRESERVED ON A SITE PLAN AND FOR WHICH UTILITIES MUST PASS THROUGH THEIR ROOT PROTECTION ZONES MAY REQUIRE TUNNELING AS OPPOSED TO OPEN TRENCHING. THE DECISION TO TUNNEL WILL BE DETERMINED ON A CASE BY CASE BASIS BY THE ENGINEER.

TUNNELS SHALL BE DUG THROUGH THE ROOT PROTECTION ZONE IN ORDER TO MINIMIZE ROOT DAMAGE.

TUNNEL TO MINIMIZE ROOT DAMAGE (TOP) AS OPPOSED TO BURST ADJACENT TRENCHES IN ROOT PROTECTION ZONE WHEN THE 2' MINIMUM DISTANCE FROM TRUNK CAN NOT BE ACHIEVED.

OPEN TRENCHING MAY BE USED IF EXPOSED TREE ROOTS DO NOT EXCEED 2" OR ROOTS CAN BE BENT BACK.

C BORING THROUGH ROOT PROTECTION ZONE
NOT TO SCALE

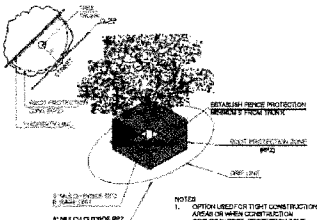


NOTES
1. THE FENCING LOCATION SHOWN ABOVE IS DIAGRAMATIC ONLY AND WILL CONFORM TO THE DRIP LINE AND BE LIMITED TO PROJECT BOUNDARY. WHERE MULTIPLE ADJACENT TREES WILL BE ENCLOSED BY FENCING, THE FENCING SHALL BE CONTINUOUS AROUND ALL TREES.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

A TREE PROTECTION FENCE
NOT TO SCALE

NOTES
1. RETENTION AREAS WILL BE SET AS PART OF THE REVIEW PROCESS AND PRE-CONSTRUCTION MEETING.
2. BOUNDARIES OF RETENTION AREAS MUST BE STAKED AT THE PRE-CONSTRUCTION MEETING AND PLACED PRIOR TO ROOT PRUNING.
3. EXACT LOCATION OF ROOT PRUNING SHALL BE DETERMINED IN THE FIELD IN COORDINATION WITH THE FORESTRY INSPECTOR.
4. TRENCH SHALL BE IMMEDIATELY BACKFILLED WITH EXCAVATED SOIL OR OTHER ORGANIC SOIL AS SPECIFIED PRIOR BY ARBORIST/ THE FORESTRY INSPECTOR.
5. ROOTS SHALL BE CUT ANY CUT USING VERY SHARP KNIFE OR OTHER ACCEPTABLE EQUIPMENT. ROT PRUNING METHODS AND MEANS MUST BE IN ACCORDANCE WITH ANSI STANDARD A300.
6. ALL PRUNING MUST BE EXECUTED AT LOCATIONS SHOWN ON PLANS OR AS AUTHORIZED IN WRITING BY THE FORESTRY INSPECTOR.
7. SUPPLEMENTAL WATERING MAY BE REQUIRED FOR ROOT PRUNED TREES THROUGHOUT THE GROWING SEASON DURING CONSTRUCTION AND SUBSEQUENT WORK ARTY AND MAINTENANCE PERIOD.

D ROOT PRUNING DETAIL
NOT TO SCALE



NOTES
1. OPTION USED FOR TIGHT CONSTRUCTION AREAS OR WHEN CONSTRUCTION OCCURS IN ROOT PROTECTION ZONE.
2. FOR ACCEPTABLE FENCING MATERIALS SEE SPECIFICATIONS.

B TREE PROTECTION FENCE - TIGHT CONSTRUCTION
NOT TO SCALE

PRELIMINARY NOT FOR CONSTRUCTION

Know what's below. Call before you dig. Dial 811

Title: NATIVE PLANT PROTECTION SPECS & DETAILS
SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

For: DUTCH BROS

Revisions | Date

Designed | Drawn | Approved | Date

Engineer: Bangham Consulting Engineers, LLC
Address: 1670 Third Avenue South, Suite 100, Lake Worth, FL 33460
Phone: 561.328.6227
Email: bangham@bangham.com

Job Number: 23690
Sheet: NP-2

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APPENDIX C

Tribal Consultation

Sacred Lands File & Native American Contacts List Request

Native American Heritage Commission
1550 Harbor Blvd, Suite 100
West Sacramento, CA 95691
916-373-3710
916-373-5471 – Fax
nahc@nahc.ca.gov

Information Below is Required for a Sacred Lands File Search

Project: Yucca Valley Dutch Bros Coffee

County: San Bernardino

USGS Quadrangle Name: Yucca Valley North

Township: 1 North **Range:** 6 East **Section(s):** 31

Company/Firm/Agency: Impact Sciences, Inc.

Street Address: 811 W. 7th Street, Suite 200

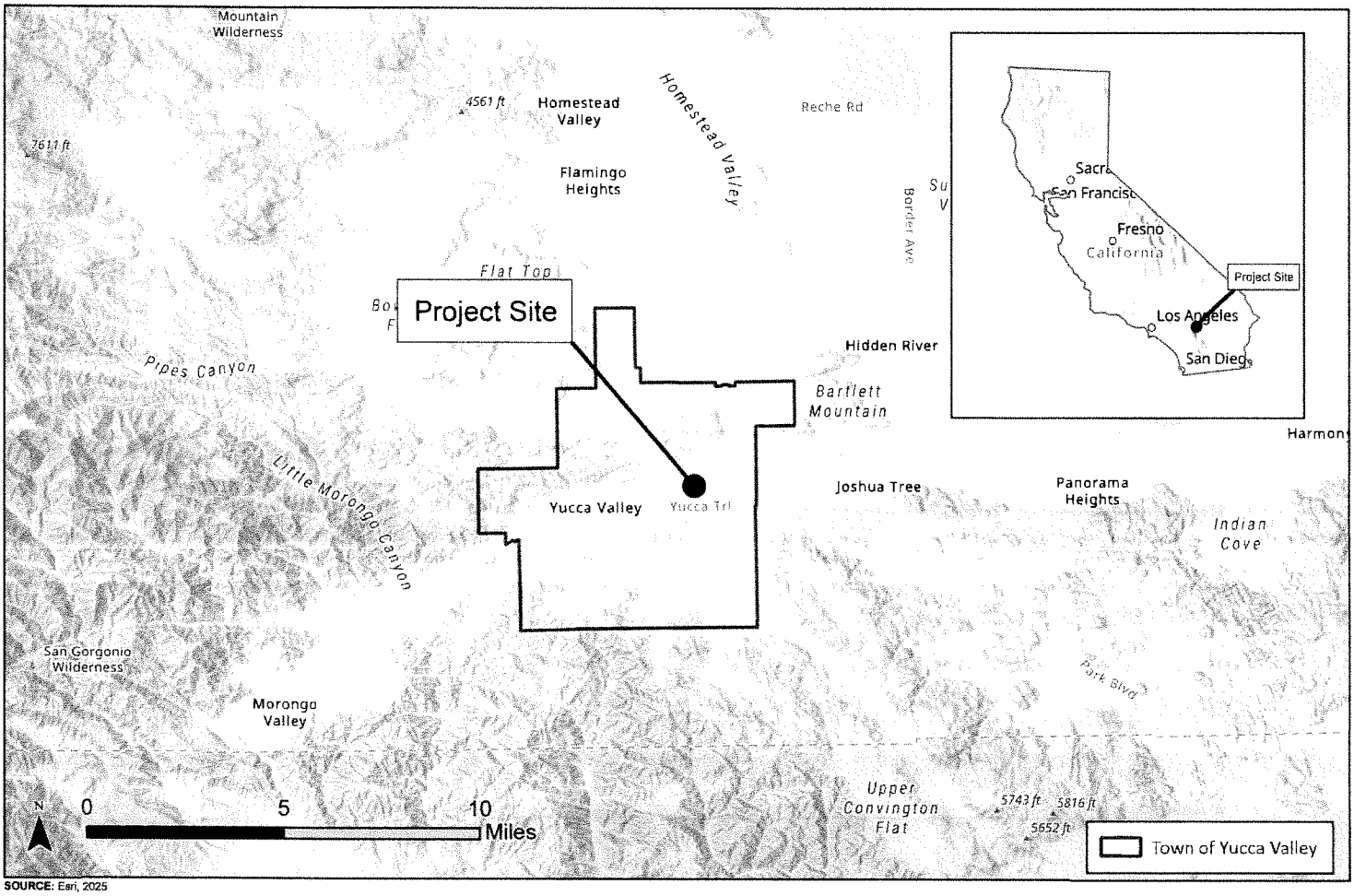
City: Los Angeles

Zip: 90017 **Phone:** 213-935-1901 ext. 350

Fax: N/A

Email: bperrine@impactsciences.com

Project Description: The proposed Yucca Valley Dutch Bros Coffee project is located at 58121 Twentynine Palms Highway (SR-62) in the Town of Yucca Valley, San Bernardino County, California (APN 0601-416-05), and encompasses approx. one acre of vacant but disturbed land between two existing commercial developments. The project involves construction and operation of a 1,025-square-foot, single-story coffee shop designed primarily as a dual-lane drive-through with capacity for 23 vehicles, limited walk-up service, and no indoor seating. The project includes site improvements, landscaping with drought-tolerant plantings, shielded energy-efficient lighting, 18 parking spaces, and off-site roadway widening along SR-62. Operations would run daily from early morning to late evening. Stormwater would be managed through a landscaped on-site retention pond designed to capture, detain, and treat runoff in compliance with Town and NPDES requirements. Construction is anticipated to begin in 2026 and last about 16 months, involving debris removal, grading with a net soil export of approx. 800 cubic yards, and building development. Required approvals include a CUP from the Town of Yucca Valley, an Incidental Take Permit from CDFW for Western Joshua Tree removal, and a Caltrans encroachment permit for improvements to SR-62.



SOURCE: Esri, 2025

FIGURE **2.2-1**

IMPACT SCIENCES

Regional Vicinity

1590.003•10/25

SOURCE: Earl, 2025

FIGURE 2.2-2

IMPACT SCIENCES

Aerial Photograph of the Project Site

1590.003•10/25

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
REGINALD PAGALING
CHUMASH

VICE-CHAIRPERSON
BUFFY MCQUILLEN
YOKAYO POMO, YUKI, NOMLAKI

SECRETARY
ISAAC BOJORQUEZ
OHLONE-COSTANOAN

PARLIAMENTARIAN
WAYNE NELSON
LUISEÑO

COMMISSIONER
SARA DUTSCHKE
MIWOK

COMMISSIONER
STANLEY RODRIGUEZ
KUMEYAAY

COMMISSIONER
BENNAE CALAC
PAUMA-YUIMA BAND OF LUISEÑO INDIANS

COMMISSIONER
VACANT

COMMISSIONER
VACANT

ACTING EXECUTIVE SECRETARY
MICHELLE CARR

NAHC HEADQUARTERS
1550 HARBOR BOULEVARD
SUITE 100
WEST SACRAMENTO,
CALIFORNIA 95691
(916) 373-3710
NAHC@NAHC.CA.GOV

October 24, 2025

Brad Perrine
Impact Sciences

Submitted via Electronic
Via Email to: bperrine@impactsciences.com

Re: Yucca Valley Dutch Bros Coffee Project, San Bernardino County

To Whom It May Concern:

As requested, a search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed based on information submitted for the above referenced project. The results were negative. Be aware that tribes do not always record their sacred sites in the SLF, nor are they required to do so. As such, an SLF search is not a substitute for consultation with all tribes that are traditionally and culturally affiliated with a project's geographic area.

Attached is a list of Native American tribes that are traditionally and culturally affiliated with the project's geographic area. Please contact all of the listed tribes as they may have information about sacred sites within the project area that is not listed with the NAHC.

If within two weeks of notification, a response has not been received, the Commission requests that you follow up with a telephone call or email to ensure that the project information was received.

If you receive notification of a change of address or phone number from a tribe, please inform the NAHC so that we can assure that our lists contain current information.

In addition to engaging in tribal consultation, you should consult the appropriate regional California Historical Research Information System (CHRIS) information center to determine whether it has information regarding the presence of recorded archaeological sites within the project area.

If you have any questions or need additional information, please contact me at: Pricilla.Torres-Fuentes@nahc.ca.gov.

Sincerely,

Pricilla Torres-Fuentes

Pricilla Torres-Fuentes
Cultural Resources Analyst

Attachment

March 11, 2025

Ginger Scott, Acting Director & George Ray, Coordinator
Colorado River Indian Tribe
133 West Riverside Drive
Parker, AZ 85344

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Ms. Scott, and Mr. Ray,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

Jared Jerome, Associate Planner
58928 Business Center Drive,
Yucca Valley, CA 92284
(760)369-6579 ext. 317
jjerome@yucca-valley.org

The Town of Yucca Valley
COMMUNITY DEVELOPMENT/PUBLIC WORKS DEPARTMENT
58928 Business Center Dr.
Yucca Valley, California 92284

Planning
(760) 369-6575
Public Works
(760) 369-6579
Building and Safety
(760) 365-0099
Code Compliance
(760) 369-6575
Engineering
(760) 369-6575
Animal Control
(760) 365-1807
Animal Shelter
(760) 365-3111
FAX (760) 228-0084

Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Colorado River Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

AhaMaKav Cultural Society, Fort Mojave Indian
Linda Otero, Director/ Charlotte Knox, Assistant Director
P.O. Box 5990
Mohave Valley, AZ 86440

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Ms. Otero, and Ms. Knox,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

Jared Jerome, Associate Planner
58928 Business Center Drive,
Yucca Valley, CA 92284
(760)369-6579 ext. 317
jjerome@yucca-valley.org

The Town of Yucca Valley
COMMUNITY DEVELOPMENT/PUBLIC WORKS DEPARTMENT
58928 Business Center Dr.
Yucca Valley, California 92284

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(760) 365-1807
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(760) 365-3111
FAX (760) 228-0084

Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the AhaMaKav – Cultural Society, Fort Mojave Indian. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

Charles Wood, Chairperson
Chemehuevi Reservation
P.O. Box 1967
Chemehuevi Valley, CA 92363

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Mr. Wood,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Chemehuevi Reservation. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

Heather House and Andrea Edge
Coachella Indians
P.O. Box 1829
Indio, CA 92201

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Ms. House, and Ms. Edge,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Coachella Indians. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

Timothy Williams, Chairperson
Fort Mojave Indian Tribe
500 Merriman Av
Needles, CA 92363

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Mr. Williams,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Fort Mojave Indian Tribe. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

Michael Contreras, Cultural Heritage Program
Morongo Band of Mission Indians
12700 Pumarra Road
Banning, CA 92220

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Mr. Contreras,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Morongo Band of Mission Indians. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

Ernest H. Siva
Morongo Band of Mission Indians Tribal Elder
9570 Mias Canyon Road
Banning, CA 92220

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Mr. Siva,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

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Yucca Valley, CA 92284
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jjerome@yucca-valley.org

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Morongo Band of Mission Indians Tribal Elder. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

Danae Hamilton Vega, Chairwoman
Ramona Band of Cahuilla Mission Indians
P.O. Box 391670
Anza, CA 92539

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Mr. Vega,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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jjerome@yucca-valley.org

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Ramona Band of Cahuilla Mission Indians. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

James Ramos, Chairperson
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, CA 92346

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Mr. Ramos,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental **Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of** the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's) contact person for this project is:

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Yucca Valley, CA 92284
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jjerome@yucca-valley.org

The Town of Yucca Valley
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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the San Manuel Band of Mission Indians. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

Alexandra McCleary, Ph.D.
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, CA 92346

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Ms. McCleary,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the San Manuel Band of Mission Indians. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

Goldie Walker, Chairwoman
Serrano Nation of Indians
P.O. Box 343
Patton, CA 92369

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Ms. Walker,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

If you wish to begin consultation on this project pursuant to AB 52 and Sections 21080.3.1 **and 21080.3.2 of CEQA, please request such consultation as soon as possible, but no later than 30 days from the date of this letter. The Town of Yucca Valley's (lead agency's)** contact person for this project is:

Jared Jerome, Associate Planner
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Yucca Valley, CA 92284
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jjerome@yucca-valley.org

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Serrano Nation of Indians. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

March 11, 2025

Darrell Mike, Chairperson
Twenty-Nine Palms Band of Mission Indians
46-200 Harrison Place
Coachella, CA 92236

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Mr. Mike,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

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The Town of Yucca Valley
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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Twenty-Nine Palms Band of Mission Indians. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

October 6, 2025

Lacy Padilla, Director of Historic Preservation/THPO
Agua Caliente Band of Cahuilla Indians
5401 Dinah Shore Drive
Palm Springs, CA, 92264

RE: FORMAL NOTIFICATION OF A PROPOSED PROJECT PURSUANT TO ASSEMBLY BILL 52 AND SECTIONS 21080.3.1 AND 21080.3.2 OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

PROJECT TITLE: DUTCH BROS – CONDITIONAL USE PERMIT (CUP) 02-25 AND ENVIRONMENTAL ASSESSMENT (EA) 03-25

PROJECT ADDRESS: BETWEEN 58111 AND 58133 TWENTYNINE PALMS HIGHWAY, SOUTH OF HIGHWAY 62 AND WEST OF BALSA AVE, ALSO IDENTIFIED AS ASSESSOR PARCEL NUMBER 0601-416-05-0000

Dear Ms. Scott, and Mr. Ray,

Pursuant to Assembly Bill (AB) 52 and Section 21080.3.1 of the California Environmental Quality Act (CEQA), the Town of Yucca Valley is hereby providing formal notification of the proposed private land development "Drive-Thru Coffee Shop" project. Enclosed please find a brief description of the proposed project and its location.

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Your comments and concerns are important to the Town, and we welcome the opportunity to consult with the Agua Caliente Band of Cahuilla Indians. If you have any questions regarding the project, please do not hesitate to contact Jared Jerome at the contact information noted above.

Best regards,

Jared Jerome
Associate Planner

Enclosure(s): Description of the Proposed Project and Its Location

AGUA CALIENTE BAND OF CAHUILLA INDIANS
TRIBAL HISTORIC PRESERVATION

03-051-2025-005

October 10, 2025

[VIA EMAIL TO:jjerome@yucca-valley.org]
Town of Yucca Valley
Jared Jerome
58928 Business Center Dr
Yucca Valley, CA 92284

Re: CUP 02-25 and EA 03-25

Dear Jared Jerome,

The Agua Caliente Band of Cahuilla Indians (ACBCI) appreciates your efforts to include the Tribal Historic Preservation Office (THPO) in the Dutch Bros Coffee Shop project. The project area is not located within the boundaries of the ACBCI Reservation. However, it is within the Tribe's Traditional Use Area. For this reason, the ACBCI THPO requests the following:

*Formal government to government consultation under California Assembly Bill No. 52 (AB-52).

*A cultural resources inventory of the project area by a qualified archaeologist prior to any development activities in this area.

*Copies of any cultural resource documentation (report and site records) generated in connection with this project.

*A copy of the records search with associated survey reports and site records from the information center.

Again, the Agua Caliente appreciates your interest in our cultural heritage. If you have questions or require additional information, please call me at (760) 423-3485. You may also email me at ACBCI-THPO@aguacaliente.net.

Cordially,

Xitlaly Madrigal

Xitlaly Madrigal
Cultural Resources Analyst
Tribal Historic Preservation Office
AGUA CALIENTE BAND
OF CAHUILLA INDIANS

5401 DINAH SHORE DRIVE, PALM SPRINGS, CA 92264
T 760/699/6800 F 760/699/6924 WWW.AGUACALIENTE-NSN.GOV

AGUA CALIENTE BAND OF CAHUILLA INDIANS
TRIBAL HISTORIC PRESERVATION

03-051-2025-005

December 03, 2025

[VIA EMAIL TO:jjerome@yucca-valley.org]
Town of Yucca Valley
Jared Jerome
58928 Business Center Dr
Yucca Valley, CA 92284

Re: Dutch Bros Coffee Shop

Dear Jared Jerome,

The Agua Caliente Band of Cahuilla Indians (ACBCI) appreciates your efforts to include the Tribal Historic Preservation Office (THPO) in the Dutch Bros Coffee Shop project. We have reviewed the documents and have the following comments:

*The presence of an approved Cultural Resource Monitor(s) from a Consulting Tribe during any ground disturbing activities (including archaeological testing and surveys). Should buried cultural deposits be encountered, the Monitor may request that destructive construction halt and the Monitor shall notify a Qualified Archaeologist (Secretary of the Interior's Standards and Guidelines) to investigate and, if necessary, prepare a mitigation plan for submission to the State Historic Preservation Officer.

*The Mitigated Negative Declaration document included standard mitigation measures to address impacts to cultural resources. We found these measures to be sufficient.

Again, the Agua Caliente appreciates your interest in our cultural heritage. If you have questions or require additional information, please call me at (760) 413-5836. You may also email me at ACBCI-THPO@aguacaliente.net.

Cordially,

Anthony Kline

Anthony Kline
Cultural Resources Analyst
Tribal Historic Preservation Office
AGUA CALIENTE BAND
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APPENDIX D

Noise and Vibration Technical Report

Yucca Valley Dutch Bros Project

Noise & Vibration

Technical Report

November 2025

Prepared for:

Town of Yucca Valley
57090 Twentynine Palms Highway
Yucca Valley, CA 92284

IMPACT SCIENCES

Prepared by:

Impact Sciences, Inc.
445 S. Figueroa Street, Suite 2550
Los Angeles, CA 90071
Contact: Brett Pomeroy, Associate Principal

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1.0 INTRODUCTION

This Noise & Vibration Technical Report describes the potential for noise and vibration impacts resulting from implementation of the proposed Dutch Bros coffee shop location at 58121 Twentynine Palms Highway (Project) in the Town of Yucca Valley (Town). This report includes an evaluation of potential impacts associated with changes in ambient noise levels in the vicinity of the Project Site due to excessive noise; and whether exposure is in excess of standards established in the Town's General Plan or Noise Ordinance. This report has been prepared by Impact Sciences, Inc., in support of the environmental documentation being prepared pursuant to the California Environmental Quality Act (CEQA).

1.1 PROJECT LOCATION

The Project Site is located at 58121 Twentynine Palms Highway (State Route 62) in the Town of Yucca Valley, San Bernardino County, California (Assessor's Parcel Number [APN] 0601-416-05). The Project Site encompasses approximately 1.01 gross acres (44,190 square feet) and is situated along the south side of Twentynine Palms Highway, the primary east-west transportation corridor through the Morongo Basin. **Figure 1, Regional Vicinity**, illustrates the site's location in a regional context.

The Project Site is currently vacant and undeveloped, except for an existing paved drive aisle at the northern portion of the site that connects two adjacent commercial developments. The topography of the site is generally flat, with no significant slopes, drainage channels, or geologic features. The site supports native desert vegetation, including Western Joshua Trees (*Yucca brevifolia*), which are protected under the California Endangered Species Act. Portions of the site also show evidence of disturbance from illegal off-road vehicle use. **Figure 2, Aerial Photograph of the Project Site**, shows an aerial photograph of the existing Project Site and surroundings.

1.2 PROJECT DESCRIPTION

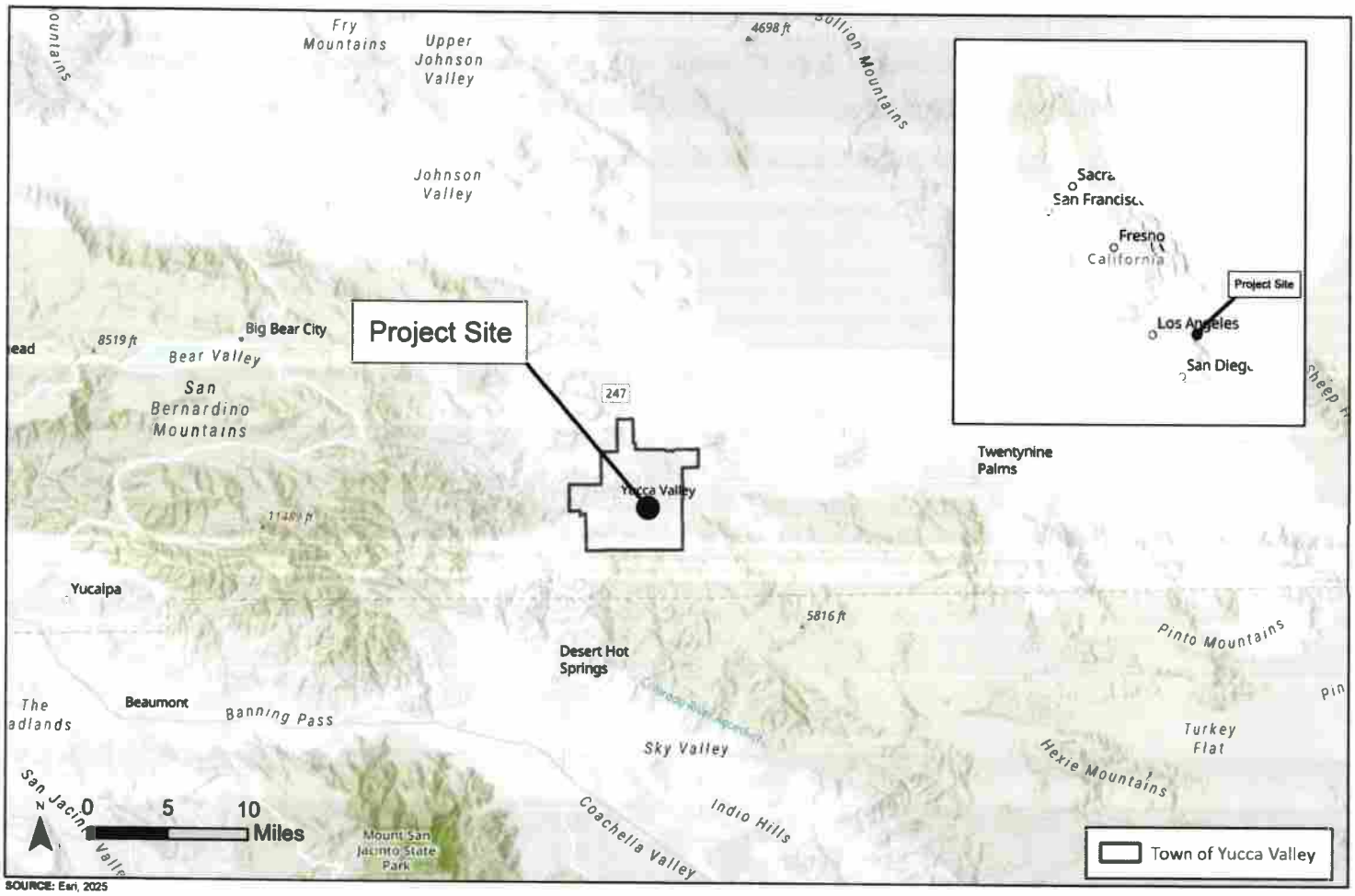
Project Overview

The Project proposes the construction and operation of an approximately 1,025-square-foot Dutch Bros Coffee shop with a dual-lane drive-through facility and associated site improvements. The drive-through is designed to accommodate 23 queued vehicles. In addition to on-site improvements, the Project would contribute in-lieu fees toward off-site roadway improvements consistent with the Town's circulation plans, specifically, the widening of Twentynine Palms Highway to an ultimate half-width of 67 feet along the Project frontage. The future widening of Twentynine Palms Highway would be undertaken at a later date

by the Town of Yucca Valley Public Works/Engineering Department and the San Bernardino County Transportation Authority. **Figure 3, Conceptual Site Plan**, illustrates the Project's proposed site plan.

Operation

Operation of the Project would entail a drive-through-focused quick-service coffee shop with limited walk-up service and no indoor seating. Land uses, such as the Project, are conditionally permitted in the C-MU zone. The Project is anticipated to operate daily between the hours of 5:00 AM and 11:00 PM. The Project is expected to employ approximately 24 to 32 people, with 6 to 8 employees working per shift. Supply deliveries would occur via small box trucks during off-peak hours.



SOURCE: Esri, 2025

FIGURE 1

Regional Vicinity

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SOURCE: Esri, 2025

FIGURE 2

IMPACT SCIENCES

Aerial Photograph of the Project Site

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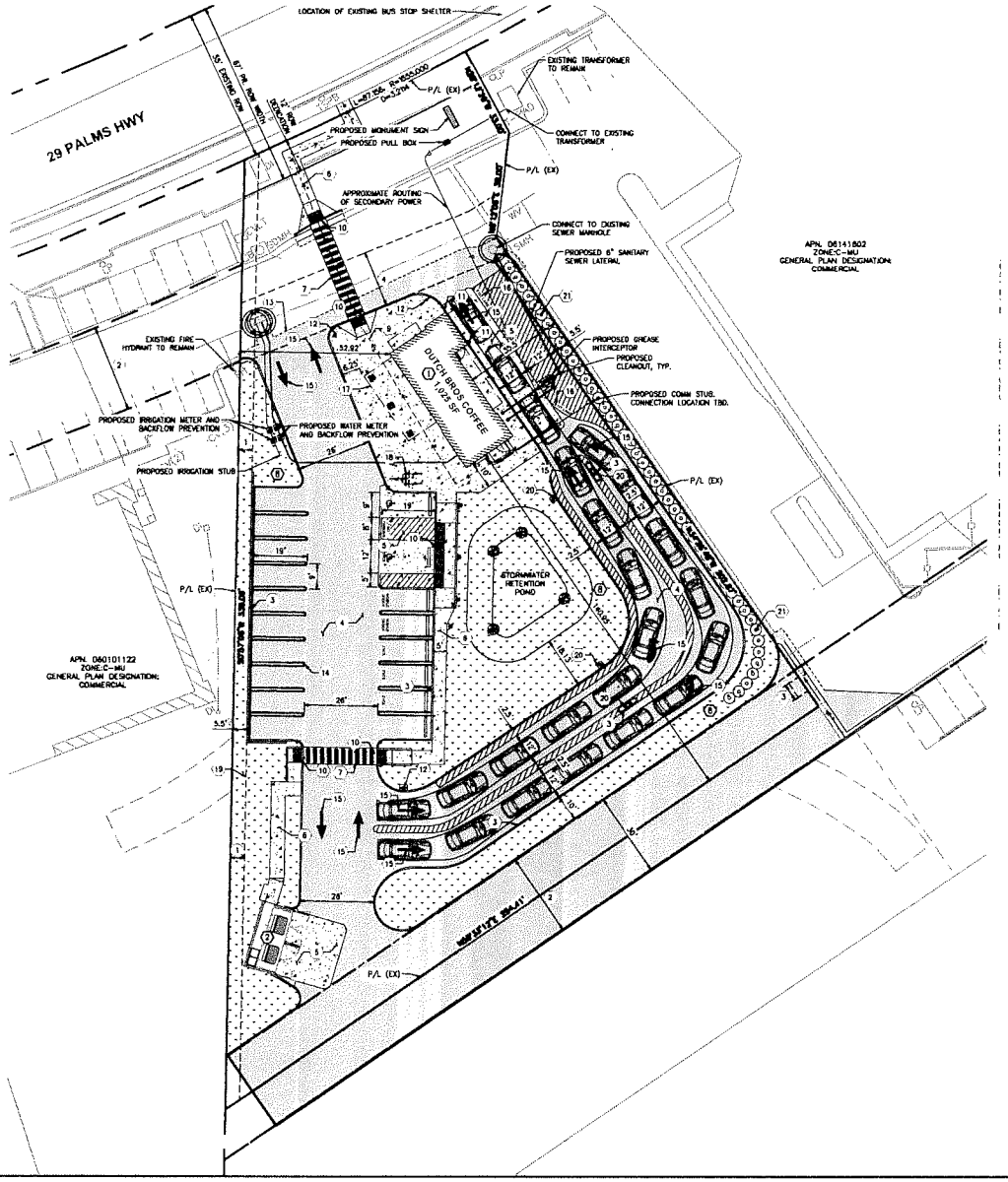

SOURCE: Barghausen Consulting Engineers, LLC., 2025

FIGURE 3

IMPACT SCIENCES

Conceptual Site Plan

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Access and Circulation

Site access would be provided from two existing driveways that currently serve adjacent commercial developments. One driveway is located along Twentynine Palms Highway and provides access to the Big 5 Sporting Goods store to the west, while the second driveway is located along Balsa Avenue in proximity to the Walgreens store to the east. Project customers and employees would enter the Project Site from the existing internal drive aisle that connects the two commercial developments and integrate circulation with the surrounding uses. In addition, the Project would include a new drive aisle along the southern perimeter of the Project Site providing direct access to the Project Site from the existing surface parking lot of the Walgreens to the east.

Internal circulation would allow vehicles to either park in the designated parking area or enter the drive-through lanes, which wrap around the southern portion of the site and direct vehicles northward to exit into adjacent parking lots and back to surrounding roadways. The Project would provide a total of 18 parking spaces (3 future electric vehicle charging stations [EVCS], 1 accessible EVCS, 1 accessible, 13 standard).

Landscaping

The Project would incorporate approximately 10,350 square feet of landscaping and would retain 2,808 square feet of existing landscaping near Twentynine Palms Highway. The landscape design emphasizes drought-tolerant, desert-appropriate plantings consistent with the Town's Water Efficient Landscape Ordinance and the Water Use Classification of Landscape Species (WUCOLS) guidelines.

Proposed trees include Swan Hill fruitless olive and Mexican palo verde, which can reach mature size of approximately 25 feet in height and width. Shrub and accent plantings would include desert agave, purple threeawn, grey desert spoon, California buckwheat, Texas sage, deer grass, and jojoba. Texas sage would be installed at a height of approximately 36 inches at the time of planting to provide immediate screening and visual structure along the eastern property line specifically to screen car headlights, and shrubs would be used to screen the trash enclosure.

Groundcover treatments would consist of approximately 1,498 square feet of decorative local cobble placed over landscape fabric. This treatment would provide a low-maintenance, water-efficient groundcover for a desert climate.

1.3 PROJECT CONSTRUCTION SEQUENCING

For the purpose of evaluating potential environmental impacts, this report assumes that construction of the Project would begin in 2026 and extend over a period of approximately five (5) months following issuance of the Incidental Take Permit for the removal of the Western Joshua Trees, with full operation anticipated in 2026. This schedule is considered conservative and is intended to capture the maximum potential daily impacts associated with construction activities.

Construction would occur in three primary stages: (1) debris removal, (2) grading and foundation preparation, and (3) building construction. All equipment and construction staging would occur within the boundaries of the Project Site. The grading plan for the Project anticipates approximately 1,000 cubic yards of cut and 200 cubic yards of fill, resulting in a net export of approximately 800 cubic yards of soil.

Debris removal stage would involve clearing the site and preparing it for grading, which would then be immediately followed by grading and foundation preparation. Debris removal and grading/foundation stages are expected to last approximately five (5) weeks. This stage would establish building pads, prepare utility connections, and level the site. The building construction stage would then proceed over approximately four (4) months and would include construction of the coffee shop structure, installation of utilities, application of architectural coatings, and paving the Project Site. Architectural coating and paving activities are expected to occur during the final month of the construction stage.

Consistent with the assumptions included within the California Emissions Estimator Model (CalEEMod), the following maximum daily equipment by stage will be assumed.

- Debris removal: 1 concrete industrial saw, 1 rubber tired dozer, 2 tractors/loader/backhoes
- Grading: 1 grader, 1 rubber tired dozer, 1 tractor/loader/backhoe
- Building Construction: 1 crane, 2 forklifts, 2 tractors/loaders/backhoes
- Paving: 4 cement and mortar mixer, 1 paver, 1 roller, 1 tractor/loader/backhoe
- Architectural Coating: 1 air compressor

2.0 ENVIRONMENTAL SETTING

2.1 FUNDAMENTALS OF NOISE & VIBRATION

Noise

Noise is usually defined as unwanted sound that is an undesirable byproduct of society's normal day-to-day activities. Sound becomes unwanted when it interferes with normal activities, when it causes actual physical harm, and/or when it has adverse effects on health. Noise is measured on a logarithmic scale of sound pressure level known as a decibel (dB). The human ear does not respond uniformly to sounds at all frequencies. For example, the human ear is less sensitive to low and high frequencies than medium frequencies, which more closely correspond with human speech. In response to the sensitivity of the human ear to different frequencies, the A-weighted noise level (or scale), which corresponds better with people's subjective judgment of sound levels, has been developed. This A-weighted sound level, referenced in units of dB(A), is measured on a logarithmic scale such that a doubling of sound energy results in a 3 dB(A) increase in noise level. Typically, changes in a community noise level of less than 3 dB(A) are not noticed by the human ear.[1] Changes from 3 to 5 dB(A) may be noticed by some individuals who are sensitive to changes in noise. A greater than 5 dB(A) increase is readily noticeable, while the human ear perceives a 10 dB(A) increase in sound level to be a doubling of sound.

On the A-weighted scale, the range of human hearing extends from approximately 3 to 140 dB(A). **Table 1, A-Weighted Decibel Scale**, provides examples of A-weighted noise levels from common sources. Noise sources occur in two forms: (1) point sources, such as stationary equipment or individual motor vehicles; and (2) line sources, such as a roadway with a large number of point sources (motor vehicles). Sound generated by a point source typically diminishes (attenuates) at a rate of 6 dB(A) for each doubling of distance from the source to the receptor at acoustically "hard" sites and 7.5 dB(A) at acoustically "soft" sites.[2] For example, if a noise source produces a noise level of 89 dB(A) at a reference distance of 50 feet, the noise level would be 83 dB(A) at a distance of 100 feet from the noise source, 77 dB(A) at a distance of 200 feet, and so on. Noise generated by a mobile source will decrease by approximately 3 dB(A) over hard surfaces and 4.5 dB(A) over soft surfaces for each doubling of distance.

---

1 California Department of Transportation (Caltrans). 2013. Technical Noise Supplement to the Traffic Noise Analysis Protocol. Available at: https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tens-sep2013-a11y.pdf

2 Federal Highway Administration, *Highway Noise Fundamentals*, (1980) 97. Examples of "hard" or reflective sites include asphalt, concrete, and hard and sparsely vegetated soils. Examples of acoustically "soft" or absorptive sites include soft, sand, plowed farmland, grass, crops, heavy ground cover, etc.

Table 1
A-Weighted Decibel Scale

Typical A-Weighted Sound Levels	Sound Level (dB(A), Leq)
Threshold of Pain	140
Jet Takeoff at 100 Meters	125
Jackhammer at 15 Meters	95
Heavy Diesel Truck at 15 Meters	85
Conversation at 1 Meter	60
Soft Whisper at 2 Meters	35

Source: United States Occupational Safety & Health Administration, Noise and Hearing Conservation Technical Manual, 1999.

Sound levels also can be attenuated by man-made or natural barriers (e.g., sound walls, berms, and ridges), as well as elevational differences. Noise is most audible when traveling by direct line-of-sight, an interrupted visual path between the noise source and noise receptor. Barriers, such as walls or buildings that break the line-of-sight between the source and the receiver, can greatly reduce noise levels from the source since sound can only reach the receiver by diffraction. However, if a barrier is not high or long enough to break the line-of-sight from the source to the receiver, its effectiveness is greatly reduced.

Solid walls and berms may reduce noise levels by 5 to 10 dB(A) depending on their height and distance relative to the noise source and the noise receptor.[3] Sound levels may also be attenuated 3 dB(A) by a first row of houses and 1.5 dB(A) for each additional row of houses.[4] The minimum noise attenuation provided by typical structures in California is provided in **Table 2, Building Noise Reduction Factors.**

3 Federal Highway Administration, *Highway Noise Mitigation*, (1980) 18.

4 California Department of Transportation (Caltrans). 2013. Technical Noise Supplement to the Traffic Noise Analysis Protocol. Available at: https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tens-sep2013-a11y.pdf

Table 2
Building Noise Reduction Factors

Building Type	Window Condition	Noise Reduction Due to Exterior of the Structure (dB(A))
All	Open	10
Light Frame	Ordinary Sash (closed)	20
	Storm Windows	25
Masonry	Single Glazed	25
	Double Glazed	35

Source: Federal Highway Administration, Highway Traffic Noise: Analysis and Abatement Guidance. December 2011.

Sound Rating Scales

Various rating scales approximate the human subjective assessment to the "loudness" or "noisiness" of a sound. Noise metrics have been developed to account for additional parameters, such as duration and cumulative effect of multiple events. Noise metrics are categorized as single event metrics and cumulative metrics, as summarized below.

In order to simplify the measurement and computation of sound loudness levels, frequency weighted networks have obtained wide acceptance. The A-weighted scale, discussed above, has become the most prominent of these scales and is widely used in community noise analysis. Its advantages are that it has shown good correlation with community response and is easily measured. The metrics used in this analysis are all based upon the dB(A) scale.

Equivalent Noise Level

Equivalent Noise Level (Leq) is the sound level corresponding to a steady-state A-weighted sound level containing the same total energy as several single event noise exposure level events during a given sample period. Leq is the "acoustic energy" average noise level during the period of the sample. It is based on the observation that the potential for noise annoyance is dependent on the total acoustical energy content of the noise. The equivalent noise level is expressed in units of dB(A). Leq can be measured for any period, but is typically measured for 15 minutes, 1 hour, or 24 hours. Leq for a 1-hour period is used by the Federal Highway Administration (FHWA) for assessing highway noise impacts. Leq for 1 hour is referred to as the Hourly Noise Level (HNL) in the California Airport Noise Regulations and is used to develop Community

Noise Equivalent Level values for aircraft operations. Construction noise levels and ambient noise measurements in this section use the Leq scale.

Community Noise Equivalent Level

Community Noise Equivalent Level (CNEL) is a 24-hour, time-weighted energy average noise level based on the A-weighted decibel. It is a measure of the overall noise experienced during an entire day. The term "time-weighted" refers to the penalties attached to noise events occurring during certain sensitive periods. In the CNEL scale, 5 decibels (dB) are added to measured noise levels occurring between the hours of 7 P.M. and 10 P.M. For measured noise levels occurring between the hours of 10 P.M. and 7 A.M., 10 dB are added. These decibel adjustments are an attempt to account for the higher sensitivity to noise in the evening and nighttime hours and the expected lower ambient noise levels during these periods. Existing and projected future traffic noise levels in this section use the CNEL scale.

Day-Night Average Noise Level

The day-night average sound level (Ldn) is another average noise level over a 24-hour period. Noise levels occurring between the hours of 10 P.M. and 7 A.M. are increased by 10 dB. This noise is weighted to take into account the decrease in community background noise of 10 dB(A) during this period. Noise levels measured using the Ldn scale are typically similar to CNEL measurements.

Adverse Effects of Noise Exposure

Noise is known to have several adverse effects on humans, which has led to laws and standards being set to protect public health and safety, and to ensure compatibility between land uses and activities. Adverse effects of noise on people include hearing loss, communication interference, sleep interference, physiological responses, and annoyance. Each of these potential noise impacts on people is briefly discussed in the following narrative.

Hearing Loss

Hearing loss is generally not a community noise concern, even near a major airport or a major freeway. The potential for noise-induced hearing loss is more commonly associated with occupational noise exposures in heavy industry, very noisy work environments with long-term exposure, or certain very loud recreational activities (e.g., target shooting and motorcycle or car racing). The Occupational Safety and Health Administration (OSHA) identifies a noise exposure limit of 90 dB(A) for 8 hours per day to protect from hearing loss (higher limits are allowed for shorter duration exposures). Noise levels in neighborhoods, even in very noisy neighborhoods, are not sufficiently loud enough to cause hearing loss.

Communication Interference

Communication interference is one of the primary concerns in environmental noise. Communication interference includes speech disturbance and intrusion with activities such as watching television. Noise can also interfere with communications such as within school classrooms. Normal conversational speech is in the range of 60 to 65 dB(A) and any noise in this range or louder may interfere with speech.

Sleep Interference

Noise can make it difficult to fall asleep, create momentary disturbances of natural sleep patterns by causing shifts from deep to lighter stages, and cause awakening. Noise may even cause awakening that a person may or may not be able to recall.

Physiological Responses

Physiological responses are those measurable effects of noise on people that are realized as changes in pulse rate, blood pressure, and other physical changes. Studies to determine whether exposure to high noise levels can adversely affect human health have concluded that, while a relationship between noise and health effects seems plausible, there is no empirical evidence of the relationship.

Annoyance

Annoyance is an individual characteristic and can vary widely from person to person. Noise that one person considers tolerable can be unbearable to another of equal hearing capability. The level of annoyance depends both on the characteristics of the noise (including loudness, frequency, time, and duration), and how much activity interference (such as speech interference and sleep interference) results from the noise. However, the level of annoyance is also a function of the attitude of the receiver. Attitudes may also be affected by the relationship between the person affected and the source of noise, and whether attempts have been made to abate the noise.

Vibration

Vibration consists of waves transmitted through solid material. Groundborne vibration propagates from a source through the ground to adjacent buildings by surface waves. Vibration may comprise a single pulse, a series of pulses, or a continuous oscillatory motion. The frequency of a vibrating object describes how rapidly it is oscillating and is measured in hertz (Hz). Most environmental vibrations consist of a composite, or "spectrum" of many frequencies, and are generally classified as broadband or random vibrations. The normal frequency range of most groundborne vibration that can be felt generally starts from a low frequency of less than one Hz to a high of about 200 Hz. Vibration is often measured in terms of the peak

particle velocity (PPV) in inches per second (in/sec) when considering impacts on buildings or other structures, as PPV represents the maximum instantaneous peak of vibration that can stress buildings. Because it is a representation of acute vibration, PPV is often used to measure the temporary impacts of short-term construction activities that could instantaneously damage-built structures. Vibration is often also measured by the root mean squared (RMS) because it best correlates with human perception and response. Specifically, RMS represents "smoothed" vibration levels over an extended period of time and is often used to gauge the long-term chronic impact of a Project's operation on the adjacent environment. RMS amplitude is the average of a signal's squared amplitude. It is most commonly measured in decibel notation (VdB).

Vibration energy attenuates as it travels through the ground, causing the vibration amplitude to decrease with distance away from the source. High frequency vibrations reduce much more rapidly than low frequencies, so that in the far-field from a source, the low frequencies tend to dominate. Soil properties also affect the propagation of vibration. When groundborne vibration interacts with a building, there is usually a ground-to-foundation coupling loss (i.e., the foundation of the structure does not move in sync with the ground vibration), but the vibration can also be amplified by the structural resonances of the walls and floors. Vibration in buildings is typically perceived as rattling of windows or items on shelves, or the motion of building surfaces. At high levels, vibration can result in damage to structures.

Manmade groundborne vibration is generally limited to areas within a few hundred feet of certain types of construction activities, especially pile driving. Road vehicles rarely create enough groundborne vibration to be perceptible to humans unless the road surface is poorly maintained and there are potholes or bumps. If traffic induces perceptible vibration in buildings, such as window rattling or shaking of small loose items (typically caused by heavy trucks in passing), then it is most likely an effect of low-frequency airborne noise or ground characteristics. Human annoyance by vibration is related to the number and duration of events. The more events or the greater the duration, the more annoying it will be to humans.

2.2 NOISE SENSITIVE RECEPTORS

Noise-sensitive land uses are generally considered to include those uses where noise exposure could result in health-related risks to individuals, as well as places where quiet is an essential element of their intended purpose. Residential dwellings are of primary concern because of the potential for increased and prolonged exposure of individuals to both interior and exterior noise levels. Additional land uses such as parks, historic sites, cemeteries, and recreation areas are considered sensitive to increases in exterior noise levels. Schools, churches, hotels, libraries, and other places where low interior noise levels are essential are also considered noise-sensitive land uses. The closest noise-sensitive receptors to the Project Site are the single-

family residences 228 feet to the south of the Project Site. See **Figure 4, Noise Monitoring and Sensitive Receptor Location Map.**

SOURCE: Esri, 2025

FIGURE 4

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Noise Monitoring and Sensitive Receptor Location Map

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2.3 EXISTING CONDITIONS

Measured Ambient Noise Levels

To establish baseline noise conditions, existing noise levels were monitored at four locations in the vicinity of the Project Site. The locations of where the noise measurements were taken are depicted in **Figure 4, Noise Monitoring and Sensitive Receptor Location Map**. The noise survey was conducted in October 2025 using the Larson Davis Sound Expert 821 (Type 1) sound level meter, which conforms to industry standards set forth in ANSI S1.4-1983 (R2006) – Specification for Sound Level Meters/Type 1. This instrument was calibrated and operated according to the manufacturer's written specifications. At the measurement sites, the microphone was placed at a height of approximately five feet above grade. The results of the measurements are summarized in **Table 3, Existing Noise Levels in the Vicinity of the Project Site**. As shown in **Table 3**, the ambient daytime noise levels ranged from 48.8 dB(A) Leq to 54.9 dB(A) Leq in the vicinity the Project Site. The existing ambient day-night noise level on the Project Site fronting Twenty-Nine Palms Highway (Noise Monitoring Location 1) is estimated to be 60.8 dB(A) Ldn. The existing ambient day-night noise level at the residences to the south (Noise Monitoring Location 2) is estimated to be 56.9 dB(A) Ldn. See **Appendix A** to this report.

Table 3
Existing Noise Levels in the Vicinity of the Project Site

Noise Monitoring Locations	Primary Noise Sources	Noise Levels [dB(A)]		
		Leq	Lmin	Lmax
Daytime (7AM – 10 PM)				
1. Project Site	Vehicle Traffic, Parking Lot Activity	54.9	46.5	67.9
2. Residences to the south	Vehicle Traffic, Neighborhood Activity	48.8	38.8	68.3
Night (10 PM – 7AM)				
1. Project Site	Vehicle Traffic	54.3	48.0	64.1
2. Residences to the south	Vehicle Traffic, Neighborhood Activity	50.7	42.1	65.6

*Source: Impact Sciences, Inc., October 2025 See **Appendix A, Noise Data**. As shown therein, 15-minute Leq data was collected for all locations.*

3.0 REGULATORY FRAMEWORK

3.1 REGULATORY FRAMEWORK

There are several plans, regulations, and programs that include policies, requirements, and guidelines regarding noise at the federal, state, regional, and local levels. As described below, these plans, guidelines, and laws include the following:

- Occupational Safety and Health Act of 1970
- Noise Control Act of 1972
- Office of Planning and Research Guidelines for Noise Compatible Land Use
- Town of Yucca Valley General Plan
- Town of Yucca Valley Municipal Code

Federal

Occupational Safety and Health Act of 1970

Under the Occupational Safety and Health Act of 1970 (29 U.S.C. §1919 et seq.), the Occupational Safety and Health Administration (OSHA) has adopted regulations designed to protect workers against the effects of occupational noise exposure. These regulations list permissible noise level exposure as a function of the amount of time during which the worker is exposed. The regulations further specify a hearing conservation program that involves monitoring noise to which workers are exposed, ensuring that workers are made aware of overexposure to noise, and periodically testing the workers' hearing to detect any degradation.[5]

Noise Control Act of 1972

Under the authority of the Noise Control Act of 1972, the United States Environmental Protection Agency (U.S. EPA) established noise emission criteria and testing methods published in Parts 201 through 205 of Title 40 of the Code of Federal Regulations (CFR) that apply to some transportation equipment (e.g., interstate rail carriers, medium trucks, and heavy trucks) and construction equipment. In 1974, U.S. EPA issued guidance levels for the protection of public health and welfare in residential areas of an outdoor L_{dn} of 55 dBA and an indoor L_{dn} of 45 dBA. These guidance levels are not standards or regulations and were developed without consideration of technical or economic feasibility. There are no federal noise standards

5 United States Department of Labor. OSH Act of 1970. https://www.osha.gov/laws-regs/oshact/completeoshact. Accessed November 5, 2025.

that directly regulate environmental noise related to the construction or operation of the Project. Moreover, the federal noise standards are not reflective of urban environments that range by land use, density, proximity to commercial or industrial centers, etc. As such, for purposes of determining acceptable sound levels to determine and evaluate intrusive noise sources and increases, this document utilizes the Town of Yucca Valley Noise Regulations, discussed below.

Federal Transit Administration Vibration Standards

There are no federal vibration standards or regulations adopted by any agency that are applicable to evaluating vibration impacts from activities associated with the Project. However, the Federal Transit Administration (FTA) has adopted vibration criteria for use in evaluating vibration impacts from construction activities. The vibration damage criteria adopted by the FTA are shown in **Table 4, Construction Vibration Damage Criteria.**

Table 4
Construction Vibration Damage Criteria

Building Category	PPV (in/sec)
I. Reinforced-concrete, steel, or timber (no plaster)	0.5
II. Engineered concrete and masonry (no plaster)	0.3
III. Non-engineered timber and masonry buildings	0.2
IV. Buildings extremely susceptible to vibration damage	0.12

Source: FTA, Transit Noise and Vibration Impact Assessment Manual, 2018.

State

Office of Planning and Research Guidelines for Noise Compatible Land Use

The State of California has not adopted statewide standards for environmental noise, but the Governor's Office of Planning and Research (OPR) has established guidelines for evaluating the compatibility of various land uses as a function of community noise exposure. The Town has developed its own compatibility guidelines in the Noise Element of the General Plan based in part on OPR Guidelines, see **Table 5, Land Use Compatibility for Community Noise Environments** later in this report. California Government Code Section 65302 requires each county and city or town in the State to prepare and adopt a comprehensive long-range general plan for its physical development, with Section 65302(f) requiring a noise element to be included in the general plan. The noise element must: (1) identify and appraise noise

problems in the community; (2) recognize Office of Noise Control guidelines; and (3) analyze and quantify current and projected noise levels.

Local

Yucca Valley General Plan

The Town of Yucca Valley General Plan (General Plan) contains a Noise Element outlining the Town's policies and programs aiming to achieve and maintain noise levels compatible with various types of land uses. The noise goals and policies from the General Plan that are relevant to the Project are listed below:

Goal N1 A noise environment where excessive noise from stationary, transportation-related, and temporary sources of noise are appropriately managed.

Policy N 1-1: Separate excessive noise-generating uses from residential uses and other sensitive receptors through building design and noise-minimizing buffers such as landscaping, berms, and setbacks.

Policy N 1-2: Require noise-reducing site design and building construction in residential and mixed-use projects in areas with outdoor CNEL levels in excess of 65 dBA.

Policy N 1-3: Require daytime only truck deliveries to commercial and industrial uses adjacent to residential uses and other sensitive receptors unless there is no feasible alternative.

Policy N 1-15: Require the design and construction of industrial and commercial development to minimize excessive offsite noise impacts to surrounding properties.

The General Plan also includes **Table 5 Land Use Compatibility for Community Noise Environments**, presented below, which shows a land use compatibility chart for community noise prepared by the California Office of Noise Control. It identifies "normally acceptable," "conditionally acceptable," "normally unacceptable," and "clearly unacceptable" exterior noise levels for various land uses. A "conditionally acceptable" designation implies new construction or development should be undertaken only after a detailed analysis of the noise reduction requirements for each land use is made and needed noise insulation features are incorporated in the design. By comparison, a "normally acceptable" designation indicates that standard construction can occur with no special noise reduction requirements.

Yucca Valley Municipal Code

The Town has jurisdiction over noise and vibration regulation, as stated in the Town's Municipal Code, Section 9.34 Noise. Section 9.34 establishes standards concerning acceptable noise and vibration levels for both sensitive land uses and for noise generating land uses. Section 9.34 states the following:

Noise Standards For Stationary Noise Sources: "Noise Standards For Stationary Noise Sources", of this section describes the noise standard for emanations from a stationary noise source, as it affects adjacent properties:

Affected Land Uses	7:00 A.M. To 10:00 P.M. Leq	10:00 P.M. To 7:00 A.M. Leq
Residential	55 dB(A)	45 dB(A)
Professional services	55 dB(A)	55 dB(A)
Other commercial	60 dB(A)	60 dB(A)
Industrial	70 dB(A)	70 dB(A)

Noise Limit Categories: No person shall operate or cause to be operated a source of sound at a location or allow the creation of noise on property owned, leased, occupied, or otherwise controlled by the person, which causes the noise level, when measured on another property, either incorporated or unincorporated, to exceed any one of the following:

a. The noise standard for the receiving land use as specified in subsection B, "Noise Impacted Areas", of this section, for a cumulative period of more than thirty (30) minutes in any hour.

b. The noise standard plus five (5) dB(A) for a cumulative period of more than fifteen (15) minutes in any hour.

c. The noise standard plus ten (10) dB(A) for a cumulative period of more than five (5) minutes in any hour.

d. The noise standard plus fifteen (15) dB(A) for a cumulative period of more than one minute in any hour.

e. The noise standard plus twenty (20) dB(A) for any period of time.

Noise Standards For Adjacent Mobile Noise Sources: Noise from mobile sources may affect adjacent properties adversely. When it does, the noise shall be mitigated for any new development to a level that shall not exceed the standards described below.

Categories	Uses	Ldn (Or CNEL) dB(A)	
		Interior	Exterior
Residential	Single-family, multi-family, duplex, mobile homes	45	60
Commercial	Amphitheater, concert hall, auditorium, movie theater	45	n/a
	Commercial retail, bank, restaurant	50	n/a
	Hotel, motel, transient housing	45	60
	Office building, research and development, professional offices	45	65
Institutional/public	Hospital, nursing home, school classroom, religious institution, library	45	65
Open space	Park	n/a	65

An exterior noise level of up to 65 dB(A) (or CNEL) shall be allowed provided exterior noise levels have been substantially mitigated through a reasonable application of the best available noise reduction technology, and interior noise exposure does not exceed 45 dB(A) (or CNEL) with windows and doors closed. Requiring that windows and doors remain closed to achieve an acceptable interior noise level shall necessitate the use of air conditioning or mechanical ventilation.

Exempt Noise: The following sources of noise shall be exempt from the regulations of this section:

1. Motor vehicles not under the control of the commercial or industrial use.
2. Emergency equipment, vehicles, and devices.
3. Temporary construction, maintenance, repair, or demolition activities between seven o'clock (7:00) A.M. and ten o'clock (10:00) P.M., except Sundays and federal holidays.

Vibration Standard: No ground vibration shall be allowed that can be felt without the aid of instruments at or beyond the lot line, nor shall any vibration be allowed which produces a particle velocity greater than or equal to 0.2 inch per second measured at or beyond the lot line.

Exempt Vibrations: The following sources of vibration shall be exempt from the regulations of this section:

- Motor vehicles not under the control of the subject use.
- Temporary construction maintenance or demolition activities between seven o'clock (7:00) A.M. and ten o'clock (10:00) P.M. (Ord. 254, 12-16-2014)

Table 5
Land Use Compatibility for Community Noise Environments

Land Use Category	Community Noise Exposure (dB, L_{dn} or CNEL)						
	55	60	65	70	75	80	
Residential - Low Density Single-Family, Duplex, Mobile Homes							
Residential - Multi-Family							
Transient Lodging - Motels Hotels							
Schools, Libraries, Churches, Hospitals, Nursing Homes							
Auditoriums, Concert Halls, Amphitheaters							
Sports Arena, Outdoor Spectator Sports							
Playgrounds, Neighborhood Parks							
Golf Courses, Riding Stables, Water Recreation, Cemeteries							
Office Buildings, Business Commercial and Professional							
Industrial, Manufacturing, Utilities, Agriculture							

Normally Acceptable - Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction without any special noise insulation requirements.

Conditionally Acceptable - New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features included in the design. Conventional construction, but with closed windows and fresh air supply system or air conditioning will normally suffice.

Normally Unacceptable - New construction or development should generally be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made and needed noise insulation features included in the design.

Clearly Unacceptable - New construction or development should generally not be undertaken.

Source: California Office of Planning and Research, General Plan Guidelines (2003), Appendix D.; Town of Yucca Valley General Plan Noise Element

4.0 NOISEANALYSIS

4.1 THRESHOLDS OF SIGNIFICANCE

The impacts of the Project related to noise would be considered significant if they would exceed any of the following Thresholds of Significance, in accordance with Appendix G of the *California Environmental Quality Act (CEQA) Guidelines*:

- Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the Project Site in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- Generation of excessive ground-borne vibration or ground-borne noise levels; and
- For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels.

The *State CEQA Guidelines* do not define the levels at which groundborne vibration or groundborne noises are considered "excessive." Thus, in terms of construction-related vibration impacts on buildings, the adopted guidelines and recommendations by the FTA to limit groundborne vibration based on the age and/or condition of the structures that are located in close proximity to construction activity are used in this analysis to evaluate potential groundborne vibration impacts. Based on the FTA criteria, construction impacts relative to groundborne vibration would be considered significant if the following were to occur:

- Project construction activities would cause a PPV groundborne vibration level to exceed 0.5 inches per second at any building that is constructed with reinforced-concrete, steel, or timber;
- Project construction activities would cause a PPV groundborne vibration level to exceed 0.3 inches per second at any engineered concrete and masonry buildings;
- Project construction activities would cause a PPV groundborne vibration level to exceed 0.2 inches per second at any non-engineered timber and masonry buildings; or
- Project construction activities would cause a PPV ground-borne vibration level to exceed 0.12 inches per second at any historical building or building that is extremely susceptible to vibration damage.

The *State CEQA Guidelines* do not define the levels at which noise would be considered substantial increases. Thus, for purposes of this analysis, the Project would normally have a significant impact on noise

levels from project operations if the project causes the ambient noise level measured at the property line of affected uses to increase by 3 dB(A) if the total ambient noise levels without the Project exceed the Town's General Plan exterior noise standards, or any 5 dB(A) or greater noise increase when total ambient noise levels without the Project are within the Town's exterior noise standards.

4.2 METHODOLOGY

Noise levels associated with Project-related construction activities were calculated using the FHWA Roadway Construction Noise Model (RCNM). Noise levels were also compared to the Town's noise ordinance, which includes provisions regarding construction noise levels. Specifically, YVMC Section 9.34 prohibits construction activity except within the hours of 7:00 a.m. and 10:00 p.m. As the Project would comply with the daytime construction hours established in the YVMC, this analysis also uses the FTA's general construction noise criteria of 90 dB(A) Leq (1-hour)[6] to provide additional context for the Project's potential to generate daytime construction noise impacts.

An analysis of traffic noise was conducted to determine if the Project would have a perceptible increase in traffic-related noise. Studies have shown that a 3 dB(A) increase in sound level pressure is barely detectable by the human ear. A 3 dB(A) increase in roadway noise levels requires an approximate doubling of roadway traffic volume, assuming that travel speeds and fleet mix remain constant.[7]

The Project's potential to result in significant noise impacts from on-site operational noise sources was assessed by identifying sources of on-site noise sources and considering the impact that they could produce given the nature of the source (i.e., loudness and whether noise would be produced during daytime or more-sensitive nighttime hours), distances to nearby sensitive receptors, surrounding ambient noise levels, the presence of similar noise sources in the vicinity, and maximum allowable noise levels permitted by the YVMC.

4.3 IMPACT ANALYSIS

Impact NOI-1 **Would the project result in generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of**

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6 Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, Table 7-2 (General Assessment Construction Noise Criteria), September 2018.

7 California Department of Transportation (Caltrans), *Technical Noise Supplement to the Traffic Noise Analysis Protocol*, 2013. Available online at: https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tens-sep2013-a11y.pdf

standards established in the local general plan or noise ordinance, or applicable standards of other agencies? ***(Less than Significant).***

Construction Impacts

Construction of the Project would require the use of heavy equipment during grading/site preparation, installation of utilities, building fabrication, and finishing. Construction activities would also involve the use of smaller power tools, generators, and other sources of noise. During each stage of construction, several types of equipment potentially could be operating concurrently, and noise levels would vary based on the amount of equipment in operation and the location of the activity. The Federal Highway Administration's (FHWA) Roadway Construction Noise Model (RCNM) has compiled data regarding the noise-generating characteristics of specific types of construction equipment and typical construction activities.

With the use of the RCNM, as detailed in **Appendix A** to this report,[8] the construction noise levels forecasted for the sensitive receptors are presented in **Table 6, Estimated Exterior Construction Noise at Sensitive Receptors.** Noise levels would diminish notably with distance from the construction site at a rate of 6 dB(A) per doubling of distance (noise from stationary or point sources is reduced by about 6 dB(A) for every doubling of distance at acoustically hard locations). For example, a noise level of 86 dB(A) Leq measured at 50 feet from the noise source to the receptor would decline to 80 dB(A) Leq at 100 feet from the source to the receptor and fall by another 6 dB(A) Leq to 74 dB(A) Leq at 200 feet from the source to the receptor. These noise attenuation rates assume a flat and unobstructed distance between the noise generator and the receptor. Furthermore, it should be noted that increases in noise levels at sensitive receptors during construction would be intermittent and temporary and would not generate continuously high noise levels. In addition, the construction noise experienced at sensitive receptors during the initial periods of construction (i.e., site preparation/grading/foundations) typically would be reduced in the later construction periods (i.e., interior building construction).

8 Project construction noise levels were calculated based on the Project's anticipated mix of construction equipment with the FHWA RCNM Version 1.1.

Table 6
Estimated Exterior Construction Noise at Sensitive Receptors

Sensitive Land Uses [a]	Distance to Project Site (feet)	Estimated Construction Noise Levels [dB(A) Leq]	Exceed FTA 90 dB(A) 1-Hour Leq Criteria?
Debris Removal			
1. Residences to the south	228	67.2	No
Grading			
1. Residences to the south	228	66.2	No
Building Construction			
1. Residences to the south	228	63.7	No

[a] *See **Figure 4** for locations of sensitive receptors.*
[b] *While the project would include construction activities up to the adjacent property lines, consistent with FTA methodology, these calculations are based on distances from the center of the site to the receptors.*
*See **Appendix A** to this report.*

Temporary construction, maintenance, and repair activities are exempt from the YVMC regulations regarding noise so long as the temporary construction does not take place between the hours of 10:00 p.m. and 7:00 a.m.[9] As the Project would comply with the daytime construction hours established in the YVMC, this analysis also uses the FTA's general construction noise criteria of 90 dB(A) Leq (1-hour) to provide additional context for the Project's potential to generate daytime construction noise impacts. While construction activity would increase noise levels in the vicinity of the Project Site (see **Table 6**), the Project's construction activities would generally not exceed the FTA's general construction noise criteria of 90 dB(A) Leq (1-hour) at any sensitive receptors. Furthermore, Project construction would not occur during restricted periods, and thus, the Project would be consistent with the criteria set forth in the YVMC. As such, construction noise impacts would be ***less than significant*** and no mitigation is required.

In addition to adherence to YVMC, which limits the construction hours, the following best management practices (BMPs) are recommended in accordance with General Plan Noise Element Policy N 1-15 that would further reduce noise levels associated with the construction of the Project.

9 Town of Yucca Valley, Municipal Code. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-16234, accessed November 5, 2025.

1. During all Project grading on-site, construction contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers, consistent with manufacturer standards.

2. The contractor shall place all stationary construction equipment so that emitted noise is directed away from noise sensitive receptors nearest the project site.

3. As applicable, all equipment shall be shut off and not left to idle when not in use.

4. The contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise/vibration sources and sensitive receptors nearest the project site during all project construction.

5. Jackhammers, pneumatic equipment and all other portable stationary noise sources shall be shielded and noise shall be directed away from sensitive receptors.

6. The project proponent shall mandate that the construction contractor prohibit the use of music or sound amplification on the project site during construction.

7. The construction contractor shall limit haul truck deliveries to the same hours specified for construction equipment.

Operational Noise

Traffic Noise

A traffic analysis for the Project was prepared by CR Associates.[10] Based on the traffic analysis contained therein, the Project is anticipated to generate approximately 358 average daily traffic trips (ADT).[11] The closest roadway to the Project Site with a recorded average daily traffic volume is along State Route 62, approximately 3,982 feet west of the Project Site. According to Caltrans data, this roadway segment carries approximately 11,700 average daily trips at Joshua Lane.[12] Based on this data, it is clear the Project's maximum of 358 daily trips would not have the potential double traffic volumes on existing roadways in the vicinity of the Project Site. Since it would take a doubling (i.e., a 100% increase) of roadway traffic volume to increase noise levels by 3 dB(A), the addition of traffic volume from operation of the Project

10 Chen Ryan Associates, *Traffic Scoping Memorandum – Dutch Bros Coffee Project,* November 2025.

11 Chen Ryan Associates, *Traffic Scoping Memorandum – Dutch Bros Coffee Project,* November 2025.

12 Caltrans, "Annual Average Daily Traffic," available at: https://gisdata-caltrans.opendata.arcgis.com/datasets/d8833219913c44358f2a9a71bda57f76_0/explore?location=34.123058%2C-116.413158%2C18.35

would not increase traffic to levels capable of producing a 3 dB(A) ambient noise increase. Additionally, the Project is consistent with the surrounding land uses, which currently generate mobile noise sources typical of a commercial use. As such, any noise increase would be imperceptible, and impacts would be ***less than significant.***

Parking & Drive-Thru Noise

Various noise events would occur periodically from the Project's parking uses. Such periodic events would include activation of car alarms, sounding of car horns, slamming of car doors, engine revs, and tire squeals. Automobile movements would comprise the most continuous noise source and would generate a noise level of approximately 65 dB(A) at a distance of 25 feet. Car alarm and horn noise events generate sound levels as high as 75 dB(A) at a reference distance of 25 feet, however these noise sources would be sporadic.

Parking for this Project would be provided in 18 spaces in a surface lot on the Project Site. It should also be noted that the existing urban environment of the Project Site currently generates noise levels associated with parking and vehicular noise sources identified above. Although the Project would increase the number of vehicles parking in the area, the types of noise associated with vehicles accessing the parking lot would be similar to those currently occurring in the vicinity of the Project Site. While periodic noise levels from car alarms, horns, slamming of doors, etc., would increase as a result of the Project, these events would not occur consistently over a 24-hour period and thus would not have the potential to increase ambient noise levels at off-site locations by 5 dB(A) Ldn or more, nor exceed the Town's exterior noise standards at off-site locations. As such, noise impacts from the parking areas would be considered less than significant.

As stated in the Project Description, the Project proposes the operation of a dual-lane drive-through facility designed to accommodate 23 queued vehicles that would operate daily between the hours of 5:00 AM and 11:00 PM. Based on field data recorded for a similar use,[13] drive-through activities may generate noise levels of approximately 56.1 dBA Leq at a distance of 50 feet. As shown in **Appendix A**, this data was used to estimate exterior noise levels at the nearby residential receptors. **Table 5, Exterior Noise Levels at Off-Site Receptors**, summarizes the estimated noise levels from parking and drive-through related noise at the nearby residences. As shown, exterior noise levels would not exceed existing noise levels during the daytime or nighttime and impacts would be ***less than significant***

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13 Field data recorded at a commercial retail center with drive-through's for a Panda Express, Taco Bell, and Dutch Bros. Vehicle traffic, parking lot activity, drive-through's and speakers, and truck loading/unloading activities were observed during the measurement. See Appendix A.

Table 5
Exterior Noise Levels at Off-Site Receptors

Off-Site Receptor [a]	Existing Noise Levels (Daytime/Nighttime)[b]	Estimated Noise Levels (dBA Leq)	Exceed Existing Noise Levels?
1. Residences to the south	48.8/50.7	42.8	No

[a] *See Figure 4, Noise Monitoring and Sensitive Receptor Location Map*
[b] *See Appendix A, Noise & Vibration Data*
Source: Impact Sciences, October 2025.

Stationary Noise Sources

As part of the Project, new mechanical equipment, HVAC units, and exhaust fans could be installed on the roof or near the proposed structures. Although the operation of this equipment would generate noise, the design of these on-site HVAC units and exhaust fans would be required to comply with the regulations of the YVMC. Specifically, Chapter 9.34 of the YVMC regulates stationary sources of noise such as HVAC units on neighboring properties. HVAC noise from the Project would also be substantially similar to existing conditions in the Project area and would not be considered a new type of noise source. As such, noise from stationary sources would be ***less than significant.***

Impact NOI-2 **Would the Proposed Project result in the generation of excessive groundborne vibration or groundborne noise levels? *(Less than Significant).***

The FTA provides ground-born vibration impact criteria with respect to building damage during construction activities. PPV, expressed in inches per second, is used to measure building vibration damage. Construction vibration damage criteria are assessed based on structural category (e.g., reinforced-concrete, steel, or timber). FTA guidelines consider 0.2 inch/sec PPV to be the significant impact level for non-engineered timber and masonry buildings. Structures or buildings constructed of reinforced concrete, steel, or timber have a vibration damage criterion of 0.5 inch/sec PPV pursuant to FTA guidelines. Although the nearby structures appear to be constructed of reinforced concrete, steel, or timber, this analysis conservatively applies the 0.2 inch/sec PPV threshold typically applied to non-engineered timber and masonry buildings.

The vibration levels at nearby structures are shown below in **Table 7, Vibration Levels at Off-Site Structures from Project Construction.**

Table 7
Vibration Levels at Off-Site Structures from Project Construction

Sensitive Uses Off-Site [a]	Distance to Project Site (ft.)	Vibration Threshold (PPV)	Estimated PPV (in/sec)
1. Commercial structure to the west	Adjacent [b]	0.2 in/sec	0.191
2. Commercial structure to the east	46	0.2 in/sec	0.036
3. Residences to the south	228	0.2 in/sec	0.003

[a] *See **Figure 4** for locations of off-site structures.*
[b] *These calculations are based on distance from the site boundary to the structures. See **Appendix A** to this report.*

The vibration velocities predicted to occur at the nearest off-site structures would be 0.191 in/sec PPV. As shown in **Table 7**, Project construction vibration levels would not have the potential to exceed the standard 0.2 in/sec threshold established by the FTA. This impact would be ***less than significant***.

Impact NOI-3 **For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the Project expose people residing or working in the Project area to excessive noise levels? (Less than Significant Impact).**

The closest airport is the Yucca Valley Airport, which is located 1.3 miles from the Project Site. However, the Yucca Valley Airport Comprehensive Land Use Plan shows that the Project Site is outside the 60 dBA CNEL noise contour for the airports.[14] While aircraft operations may contribute to the noise in the project area from this airport, the Project Site is not expected to experience airport-related noise levels in excess of the Town's exterior standards. As such, the Project would not expose people residing or working in the project area to excessive airport-related noise levels. This impact would be less than significant.

14 San Bernardino County Planning Department, Yucca Valley Airport Comprehensive Land Use Plan, February 1992, available at: https://www.yucca-valley.org/home/showpublisheddocument/2600/637009400192130000, accessed November 5, 2025

5.0 REFERENCES

California Department of Transportation (Caltrans), *Technical Noise Supplement to the Traffic Noise Analysis Protocol*, 2013. Available online at: https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tens-sep2013-a11y.pdf

Caltrans, "Annual Average Daily Traffic," available at: https://gisdata-caltrans.opendata.arcgis.com/datasets/d8833219913c44358f2a9a71bda57f76_0/explore?location=34.123058%2C-116.413158%2C18.35

Chen Ryan Associates, *Traffic Scoping Memorandum – Dutch Bros Coffee Project*, November 2025.

Federal Highway Administration, *Highway Noise Fundamentals*, (1980) 97. Examples of "hard" or reflective sites include asphalt, concrete, and hard and sparsely vegetated soils. Examples of acoustically "soft" or absorptive sites include soft, sand, plowed farmland, grass, crops, heavy ground cover, etc.

Federal Highway Administration, *Highway Noise Mitigation*, (1980) 18.

Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, Table 7-2 (General Assessment Construction Noise Criteria), September 2018.

San Bernardino County Planning Department, Yucca Valley Airport Comprehensive Land Use Plan, February 1992, available at: https://www.yucca-valley.org/home/showpublisheddocument/2600/637009400192130000, accessed November 5, 2025

Town of Yucca Valley, Municipal Code. Available online at: https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/yuccavalley_ca/0-0-0-16234, accessed November 5, 2025.

United States Department of Labor. OSH Act of 1970. https://www.osha.gov/laws-regs/oshact/completeoshact. Accessed November 5, 2025.

APPENDIX A

Noise & Vibration Data

NOISE MONITORING FIELD REPORT

Site Map

Project Name: Yucca Valley Ditch Bros

Monitoring Location: Project Site

Date: 10/24/25 **Site Number:** 1 (day)

Measured By: Annalie Sarrieddine

Measurement Start Time: 7:04 AM

Measurement End Time: 7:19 AM

Total Measurement Time: 15 min.

Noise Meter Model: Larson Davis SoundExpert 821 **Calibration:** 94.0 (dBA)

Meter Setting: A-Weighted Sound Level (SLOW)

Session File Name: 010E

Primary Noise Sources: Vehicle Traffic, Parking lot Activity

Data Summary

Noise Scale	Noise Level (dBA)
L_{eq}	54.9
L_{max}	67.9
L_{min}	46.5

Other Noise Sources During Monitoring

1. _____ Time: _____
2. _____ Time: _____
3. _____ Time: _____
4. _____ Time: _____
5. _____ Time: _____

Additional Notes:

Person riding a bike in the lot

IMPACT SCIENCES

IMPACT SCIENCES

SoundExpert 821 Summary: 2025-11-13 12:19:16

User: Annalie Sarrieddine

Location: 1 (day)

Job Description: Yucca Valley Dutch Bros

Notes:

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40371
Preamplifier	PRM821	
Microphone	377B02	
Unique File Id	00C:00009DB3:68FB251A:0000010E	

Overall Measurement

Start Date & Time	2025-10-24 07:04:58
Stop Date & Time	2025-10-24 07:19:58
Run Time	00:15:00
Pre-Calibration	
Date/Time	2024-12-14 16:55:03
Calibrator Level (dB)	114.00
Meter Sensitivity (dB re 1V/Pa)	-25.47
Post-Calibration	
Date/Time	---
Calibrator Level (dB)	---
Meter Sensitivity (dB re 1V/Pa)	---
Sensitivity Delta	---
	A
Lweq (dB)	54.9
Lwpk (dB)	93.2
	2025-10-24 07:10:41
LwSmin (dB)	46.5
	2025-10-24 07:13:37
LwSmax (dB)	67.9
	2025-10-24 07:17:03
LwFmin (dB)	46.0
	2025-10-24 07:13:37
LwFmax (dB)	72.5
	2025-10-24 07:05:13
Lwimin (dB)	47.4
	2025-10-24 07:13:37
Lwimax (dB)	76.6
	2025-10-24 07:05:13
w = frequency weighting (A, C or Z)	
Community Noise (dB)	**LDN**
	54.9
	LDEN
	54.9
LCeq - LAeq (dB)	16.4
LAleq (dB)	58.6
Overload Count	0
Overload Duration	00:00:00
	A
Under Range Peak (dB)	50.0
Under Range Limit (dB)	24.0
Noise Floor (dB)	17.0

Ln Percentiles

LAS 5.0 (dB)	58.9
LAS 10.0 (dB)	57.3
LAS 33.3 (dB)	54.6
LAS 50.0 (dB)	53.3
LAS 66.6 (dB)	51.9
LAS 90.0 (dB)	48.6

Exceedances

	Count	Duration (s)
LAS > 85.0 dB	0	0
LAS > 95.0 dB	0	0
LApk > 135.0 dB	0	0
LApk > 137.0 dB	0	0
LApk > 140.0 dB	0	0

Sound Exposure

SELA (dB)	84.4
EA (Pa^2s)	0.1
EA,8 h (Pa^2s)	3.5
EA,40 h (Pa^2s)	17.6
EA (Pa^2h)	0.0
EA,8 h (Pa^2h)	0.0
EA,40 h (Pa^2h)	0.0

NOISE MONITORING FIELD REPORT

Site Map

Project Name: Yucca Valley Dutch Bros

Monitoring Location: Project Site

Date: 10/24/25 **Site Number:** 1 (Night)

Measured By: Annalie Sarrieddine

Measurement Start Time: 6:37 AM

Measurement End Time: 6:52 AM

Total Measurement Time: 15 min.

Noise Meter Model: Larson Davis SoundExpert 821 **Calibration:** 94.0 (dBA)

Meter Setting: A-Weighted Sound Level (SLOW)

Session File Name: 010a

Primary Noise Sources: Vehicle Traffic

Data Summary

Noise Scale	Noise Level (dBA)
L_{eq}	54.3
L_{max}	64.1
L_{min}	48.0

Other Noise Sources During Monitoring

1. _____ Time: _____
2. _____ Time: _____
3. _____ Time: _____
4. _____ Time: _____
5. _____ Time: _____

Additional Notes:

_____

_____

_____

_____

_____

IMPACT SCIENCES

IMPACT SCIENCES

SoundExpert 821 Summary: 2025-11-13 12:19:49

User: Annalie Sarrieddine

Location: 1 (night)

Job Description: Yucca Valley Dutch Bros

Notes:

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40371
Preamplifier	PRM821	
Microphone	377B02	
Unique File Id	00C:00009DB3:68FB1EAF:0000010A	

Overall Measurement

Start Date & Time	2025-10-24 06:37:35
Stop Date & Time	2025-10-24 06:52:35
Run Time	00:15:00
Pre-Calibration	
Date/Time	2024-12-14 16:55:03
Calibrator Level (dB)	114.00
Meter Sensitivity (dB re 1V/Pa)	-25.47
Post-Calibration	
Date/Time	---
Calibrator Level (dB)	---
Meter Sensitivity (dB re 1V/Pa)	---
Sensitivity Delta	---
	A
Lweq (dB)	54.3
Lwpk (dB)	93.8
	2025-10-24 06:47:02
LwSmin (dB)	48.0
	2025-10-24 06:37:36
LwSmax (dB)	64.1
	2025-10-24 06:38:27
LwFmin (dB)	47.6
	2025-10-24 06:37:35
LwFmax (dB)	70.7
	2025-10-24 06:47:02
Lwimin (dB)	49.1
	2025-10-24 06:37:36
Lwimax (dB)	75.5
	2025-10-24 06:47:02
w = frequency weighting (A, C or Z)	
Community Noise (dB)	LDN
	64.3
	LDEN
	64.3
LCeq - LAeq (dB)	16.6
LAleq (dB)	58.4
Overload Count	0
Overload Duration	00:00:00
	A
Under Range Peak (dB)	50.0
Under Range Limit (dB)	24.0
Noise Floor (dB)	17.0

Ln Percentiles

LAS 5.0 (dB)	57.7
LAS 10.0 (dB)	56.5
LAS 33.3 (dB)	54.3
LAS 50.0 (dB)	53.1
LAS 66.6 (dB)	52.2
LAS 90.0 (dB)	51.2

Exceedances

	Count	Duration (s)
LAS > 85.0 dB	0	0
LAS > 95.0 dB	0	0
LApk > 135.0 dB	0	0
LApk > 137.0 dB	0	0
LApk > 140.0 dB	0	0

Sound Exposure

SELA (dB)	83.8
EA (Pa^2s)	0.1
EA,8 h (Pa^2s)	3.1
EA,40 h (Pa^2s)	15.5
EA (Pa^2h)	0.0
EA,8 h (Pa^2h)	0.0
EA,40 h (Pa^2h)	0.0

NOISE MONITORING FIELD REPORT

Site Map

Project Name: Yucca Valley Dutch Bros

Monitoring Location: Residences to the south

Date: 10/24/25 **Site Number:** 2 (day)

Measured By: Annalie Sarrieddine

Measurement Start Time: 7:25 AM

Measurement End Time: 7:40 AM

Total Measurement Time: 15 min.

Noise Meter Model: Larson Davis SoundExpert 821 **Calibration:** 94.0 (dBA)

Meter Setting: A-Weighted Sound Level (SLOW)

Session File Name: 0112

Primary Noise Sources: Vehicle Traffic, Neighborhood Activity

Data Summary

Noise Scale	Noise Level (dBA)
Leq	48.8
Lmax	68.3
Lmin	38.8

Other Noise Sources During Monitoring

1. _____ Time: _____
2. _____ Time: _____
3. _____ Time: _____
4. _____ Time: _____
5. _____ Time: _____

Additional Notes:

_____

_____

_____

_____

_____

IMPACT SCIENCES

IMPACT SCIENCES

SoundExpert 821 Summary: 2025-11-13 12:18:44

User: Annalie Sarrieddine

Location: 2 (day)

Job Description: Yucca Valley Dutch Bros

Notes:

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40371
Preamplifier	PRM821	
Microphone	377B02	
Unique File Id	00C:00009DB3:68FB29EA:00000112	

Overall Measurement

Start Date & Time	2025-10-24 07:25:30
Stop Date & Time	2025-10-24 07:40:30
Run Time	00:15:00
Pre-Calibration	
Date/Time	2024-12-14 16:55:03
Calibrator Level (dB)	114.00
Meter Sensitivity (dB re 1V/Pa)	-25.47
Post-Calibration	
Date/Time	—
Calibrator Level (dB)	—
Meter Sensitivity (dB re 1V/Pa)	—
Sensitivity Delta	—
	A
Lweq (dB)	48.8
Lwpk (dB)	103.7
	2025-10-24 07:25:56
LwSmin (dB)	38.8
	2025-10-24 07:28:32
LwSmax (dB)	68.3
	2025-10-24 07:25:56
LwFmin (dB)	37.2
	2025-10-24 07:35:43
LwFmax (dB)	76.6
	2025-10-24 07:25:56
Lwimin (dB)	40.1
	2025-10-24 07:28:29
Lwimax (dB)	80.9
	2025-10-24 07:25:56
w = frequency weighting (A, C or Z)	
Community Noise (dB)	LDN
	48.8
	LDEN
	48.8
LCeq - LAeq (dB)	13.0
LAleq (dB)	58.3
Overload Count	0
Overload Duration	00:00:00
	A
Under Range Peak (dB)	50.0
Under Range Limit (dB)	24.0
Noise Floor (dB)	17.0

Ln Percentiles	
LAS 5.0 (dB)	52.1
LAS 10.0 (dB)	50.3
LAS 33.3 (dB)	47.6
LAS 50.0 (dB)	46.2
LAS 66.6 (dB)	45.0
LAS 90.0 (dB)	42.2

Exceedances	Count	Duration (s)
LAS > 85.0 dB	0	0
LAS > 95.0 dB	0	0
LApk > 135.0 dB	0	0
LApk > 137.0 dB	0	0
LApk > 140.0 dB	0	0

Sound Exposure	
SELA (dB)	78.4
EA (Pa^2s)	0.0
EA,8 h (Pa^2s)	0.9
EA,40 h (Pa^2s)	4.4
EA (Pa^2h)	0.0
EA,8 h (Pa^2h)	0.0
EA,40 h (Pa^2h)	0.0

NOISE MONITORING FIELD REPORT

Site Map

Project Name: Yucca Valley Dutch Bros

Monitoring Location: Residences to the South

Date: 10/24/25 **Site Number:** 2 (Night)

Measured By: Annalie Sarrieddine

Measurement Start Time: 6:09 AM

Measurement End Time: 6:24 AM

Total Measurement Time: 15 min.

Noise Meter Model: Larson Davis SoundExpert 821 **Calibration:** 94.0 (dBA)

Meter Setting: A-Weighted Sound Level (SLOW)

Session File Name: 0106

Primary Noise Sources: Vehicle Traffic, Neighborhood Activity

- **Data Summary**

Noise Scale	Noise Level (dBA)
Leq	50.7
Lmax	65.6
Lmin	42.1

Other Noise Sources During Monitoring

1. _____ Time: _____
2. _____ Time: _____
3. _____ Time: _____
4. _____ Time: _____
5. _____ Time: _____

Additional Notes:

Dog barking sporadically

IMPACT SCIENCES

IMPACT SCIENCES

SoundExpert 821 Summary: 2025-11-13 12:20:42

User: Annalie Sarrieddine

Location: 2 (night)

Job Description: Yucca Valley Dutch Bros

Notes:

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40371
Preamplifier	PRM821	
Microphone	377B02	
Unique File Id	00C:00009DB3:68FB1821:00000106	

Overall Measurement

Start Date & Time	2025-10-24 06:09:37
Stop Date & Time	2025-10-24 06:24:37
Run Time	00:15:00
Pre-Calibration	
Date/Time	2024-12-14 16:55:03
Calibrator Level (dB)	114.00
Meter Sensitivity (dB re 1V/Pa)	-25.47
Post-Calibration	
Date/Time	---
Calibrator Level (dB)	---
Meter Sensitivity (dB re 1V/Pa)	---
Sensitivity Delta	---
	A
Lweq (dB)	50.7
Lwpk (dB)	87.5
	2025-10-24 06:24:21
LwSmin (dB)	42.1
	2025-10-24 06:22:51
LwSmax (dB)	65.6
	2025-10-24 06:18:27
LwFmin (dB)	41.5
	2025-10-24 06:16:18
LwFmax (dB)	67.4
	2025-10-24 06:24:21
Lwimin (dB)	42.9
	2025-10-24 06:21:22
Lwimax (dB)	72.1
	2025-10-24 06:24:21
w = frequency weighting (A, C or Z)	
Community Noise (dB)	LDN
	60.7
	LDEN
	60.7
LCeq - LAeq (dB)	11.0
LAleq (dB)	53.9
Overload Count	0
Overload Duration	00:00:00
	A
Under Range Peak (dB)	50.0
Under Range Limit (dB)	24.0
Noise Floor (dB)	17.0

Ln Percentiles	
LAS 5.0 (dB)	54.6
LAS 10.0 (dB)	52.7
LAS 33.3 (dB)	49.5
LAS 50.0 (dB)	48.0
LAS 66.6 (dB)	46.4
LAS 90.0 (dB)	44.4

Exceedances		
	Count	Duration (s)
LAS > 85.0 dB	0	0
LAS > 95.0 dB	0	0
LApk > 135.0 dB	0	0
LApk > 137.0 dB	0	0
LApk > 140.0 dB	0	0

Sound Exposure	
SELA (dB)	80.2
EA (Pa^2s)	0.0
EA,8 h (Pa^2s)	1.4
EA,40 h (Pa^2s)	6.8
EA (Pa^2h)	0.0
EA,8 h (Pa^2h)	0.0
EA,40 h (Pa^2h)	0.0

NOISE MONITORING FIELD REPORT

Project Name: Demaree Travel Plaza

Monitoring Location: 821 South Akers Street plaza, City of Visalia

Date: 11/7/2023 **Site Number:** REFERENCE

Measured By: Annalie Sarrieddine

Start Time: 4 46 PM

Measurement End Time: 5 01 PM

Total Measurement Time: 15 min.

Noise Meter Model: Larson Davis Soundtrack LxT

Meter Setting: A-Weighted Sound Level (SLOW)

Session File Name: LxT Data

A reference noise measurement was taken approximately 50 feet from a fast food drive through, with truck loading/unloading also occurring approximately 50 feet away.

Calibration: 94.0 (dBA)

Primary Noise Sources: Vehicle Traffic, Fast food drive through speaker, truck loading

Data Summary

Noise Scale	Noise Level (dBA)
L_{eq}	56.1
L_{max}	72.1
L_{min}	48.9

Other Noise Sources During Monitoring

1. Speaker, Drive Through Time: 4 48
2. " Time: 4 57
3. _____ Time: _____
4. _____ Time: _____
5. _____ Time: _____

Additional Notes:

Truck Departed at 4:53 PM, Truck loading in process for the duration of the measurement

IMPACT SCIENCES

Measurement Report

Report Summary

Meter's File Name	LxT_Data.277.s	Computer's File Name	LxT_0005667-20231107 164620-LxT_Data.277.ldbin
Meter	LxT1 0005667	Firmware	2.302
User		Location	
Job Description			
Note			

Start Time	2023-11-07 16:46:20	Duration	0:15:00.0		
End Time	2023-11-07 17:01:20	Run Time	0:15:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-11-07 16:39:41	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	56.1 dB		
LAE	85.6 dB	SEA	--- dB
EA	40.7 µPa²h		
EA8	1.3 mPa²h		
EA40	6.5 mPa²h		
LA_{peak}	99.5 dB	2023-11-07 16:47:12	
LAS_{max}	72.1 dB	2023-11-07 16:47:12	
LAS_{min}	48.9 dB	2023-11-07 17:01:01	
LA_{eq}	56.1 dB		
LC_{eq}	67.2 dB	$LC_{eq} - LA_{eq}$	11.1 dB
LAI_{eq}	61.5 dB	$LAI_{eq} - LA_{eq}$	5.4 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApk > 135.0 dB	0	0:00:00.0
LApk > 137.0 dB	0	0:00:00.0
LApk > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
--- dB	--- dB	0.0 dB

LDEN	LDay	LEve	LNight
--- dB	--- dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	56.1 dB		67.2 dB		--- dB	
$Ls_{(max)}$	72.1 dB	2023-11-07 16:47:12	--- dB	None	--- dB	None
$LS_{(min)}$	48.9 dB	2023-11-07 17:01:01	--- dB	None	--- dB	None
$L_{Peak(max)}$	99.5 dB	2023-11-07 16:47:12	--- dB	None	--- dB	None

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

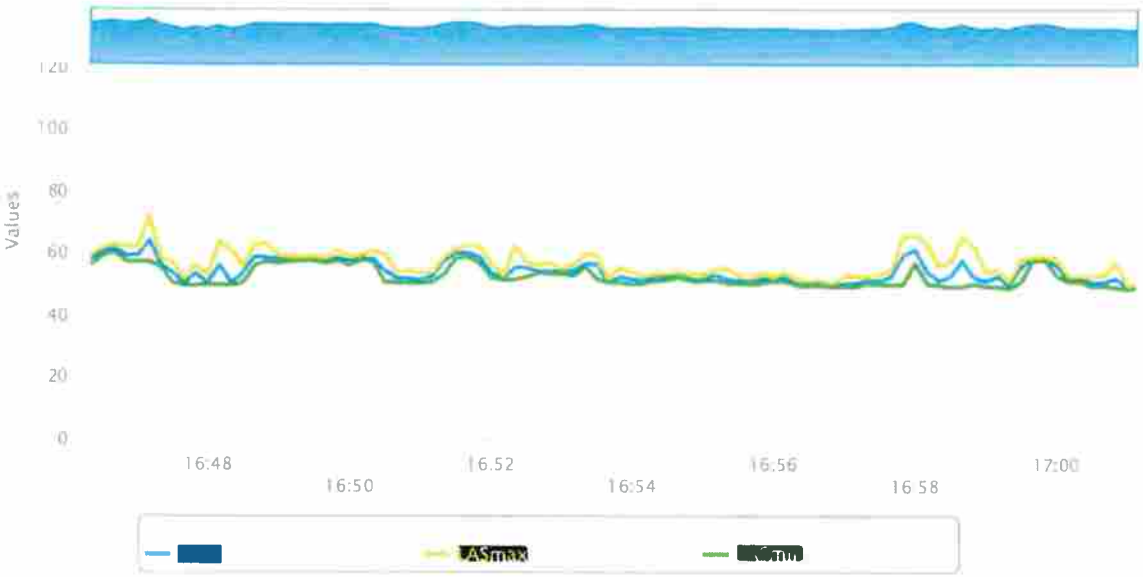
Statistics

LAS 0.0	--- dB
LAS 0.0	--- dB
LAS 10.0	59.2 dB
LAS 33.3	56.3 dB
LAS 66.7	51.7 dB
LAS 90.0	50.3 dB

Time History

140

[redacted]


120
100
80
60
40
20
0
Values
16:48
16:50
16:52
16:54
16:56
16:58
17:00
[redacted]
ASmax
[redacted]

On-Site Noise Sources

Drive-thru and Loading/Unloading

Receptor	Distance to Activity (ft)[1]	Barrier Insertion Loss	Estimated Noise Levels dBA Leq [2]
1	228	0	42.8

Notes:

1: Distance measured from nearest point of receptor to nearest point of Project activity

2: Field measurement indicates drive-thru and loading noise to be approx 56 dBA Leq at 50 ft. See noise monitoring data.

Project Site Noise Level (Ldn) (Location 1)		
Hour of Day	dBA Leq	With Ldn Penalty
12:00 AM	54.3	64.3
1:00 AM	54.3	64.3
2:00 AM	54.3	64.3
3:00 AM	54.3	64.3
4:00 AM	54.3	64.3
5:00 AM	54.3	64.3
6:00 AM	54.3	64.3
7:00 AM	54.9	54.9
8:00 AM	54.9	54.9
9:00 AM	54.9	54.9
10:00 AM	54.9	54.9
11:00 AM	54.9	54.9
12:00 PM	54.9	54.9
1:00 PM	54.9	54.9
2:00 PM	54.9	54.9
3:00 PM	54.9	54.9
4:00 PM	54.9	54.9
5:00 PM	54.9	54.9
6:00 PM	54.9	54.9
7:00 PM	54.9	54.9
8:00 PM	54.9	54.9
9:00 PM	54.9	54.9
10:00 PM	54.3	64.3
11:00 PM	54.3	64.3
	Calculated Ldn:	**60.8**

Daytime Hours:	7:00 AM - 10:00 PM
Nighttime Hours:	10:00 PM - 7:00 AM

Note: Ldn based on measurement data collected at Location 1. See noise monitoring data.

Project Site Noise Level (Ldn) (Location 2)		
Hour of Day	dBA Leq	With Ldn Penalty
12:00 AM	50.7	60.7
1:00 AM	50.7	60.7
2:00 AM	50.7	60.7
3:00 AM	50.7	60.7
4:00 AM	50.7	60.7
5:00 AM	50.7	60.7
6:00 AM	50.7	60.7
7:00 AM	48.8	48.8
8:00 AM	48.8	48.8
9:00 AM	48.8	48.8
10:00 AM	48.8	48.8
11:00 AM	48.8	48.8
12:00 PM	48.8	48.8
1:00 PM	48.8	48.8
2:00 PM	48.8	48.8
3:00 PM	48.8	48.8
4:00 PM	48.8	48.8
5:00 PM	48.8	48.8
6:00 PM	48.8	48.8
7:00 PM	48.8	48.8
8:00 PM	48.8	48.8
9:00 PM	48.8	48.8
10:00 PM	50.7	60.7
11:00 PM	50.7	60.7
	Calculated Ldn:	56.9

Daytime Hours:	7:00 AM - 10:00 PM
Nighttime Hours:	10:00 PM - 7:00 AM

Note: Ldn based on measurement data collected at Location 2. See noise monitoring data.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/13/2025
Case Description: Yucca Valley Dutch Bros (Debris Removal)

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Residences to the south	Residential	65	65	65

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Saw	No	20		89.6	367	0
Tractor	No	40	84		367	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Concrete Saw		72.3	65.3
Tractor		66.7	62.7
	Total	72.3	67.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/13/2025
Case Descriptio Yucca Valley Dutch Bros (Grading)

				---- Receptor #1 ----			
		Baselines (dBA)					
Description	Land Use	Daytime	Evening	Night			
Residences to the south	Residential	65	65	65			

			Equipment Spec	Actual	Receptor	Estimated
	Impact		Lmax	Lmax	Distance	Shielding
Description	Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Grader	No	40	85		367	0
Tractor	No	40	84		367	0

Results

	Calculated (dBA)	
Equipment	*Lmax	Leq
Grader	67.7	63.7
Tractor	66.7	62.7
Total	67.7	66.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 11/13/2025
Case Description Yucca Valley Dutch Bros (Building Construction)

		Baselines (dBA)		---- Receptor #1 ----
Description	Land Use	Daytime	Evening	Night
Residences to the south	Residential	65	65	65

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	367	0
Tractor	No	40	84		367	0

Results

		Calculated (dBA)	
Equipment		*Lmax	Leq
Paver		59.9	56.9
Tractor		66.7	62.7
	Total	66.7	63.7

*Calculated Lmax is the Loudest value.

Yucca Valley Dutch Bros Project			Commercial structure to the west
Ref=	Reference vibration level (PPV)		
RefD=	Reference distance for Reference vibration level (Feet)		
	Vibration PPV		
	Ref=	0.089	Based on type of equipment
	RefD=	25	
	D=	15	Distance from equipment to sensitive receptor
	Equip=	0.191	
	Annoyance VdB		
	Ref=	87	Based on type of equipment
	RefD=	25	
	D=	15	Distance from equipment to sensitive receptor
	Equip=	94	

Peak demolition vibration based on utilizing a large bulldozer.

Source: FTA Tranist Noise and Vibration Impact Assessment, 2006.

Yucca Valley Dutch Bros Project			Commercial structure to the east
Ref=	Reference vibration level (PPV)		
RefD=	Reference distance for Reference vibration level (Feet)		
	Vibration PPV		
	Ref=	0.089	Based on type of equipment
	RefD=	25	
	D=	46	Distance from equipment to sensitive receptor
	Equip=	0.036	
	Annoyance VdB		
	Ref=	87	Based on type of equipment
	RefD=	25	
	D=	46	Distance from equipment to sensitive receptor
	Equip=	79	
Peak demolition vibration based on utilizing a large bulldozer.			
Source: FTA Tranist Noise and Vibration Impact Assessment, 2006.			

Yucca Valley Dutch Bros Project			Residences to the south
Ref=	Reference vibration level (PPV)		
RefD=	Reference distance for Reference vibration level (Feet)		
	Vibration PPV		
	Ref=	0.089	Based on type of equipment
	RefD=	25	
	D=	228	Distance from equipment to sensitive receptor
	Equip=	0.003	
	Annoyance VdB		
	Ref=	87	Based on type of equipment
	RefD=	25	
	D=	228	Distance from equipment to sensitive receptor
	Equip=	58	

Peak demolition vibration based on utilizing a large bulldozer.

Source: FTA Tranist Noise and Vibration Impact Assessment, 2006.

APPENDIX E

Local Transportation Assessment

YUCCA VALLEY DUTCH BROS COFFEE PROJECT

Local Transportation Assessment

JANUARY 2026

Prepared For

Impact Sciences
445 S. Figueroa Street,
Suite 2550
Los Angeles, CA 90071

Prepared By

CR Associates
3900 Fifth Avenue, Suite 310
San Diego, CA 92103

Executive Summary

Project Description and Setting

Balsa Avenue in the Town of Yucca Valley, California. The shopping center currently consists of a Big 5 Sporting Goods store located to the west of the Project site and a Walgreens located to the east. Access to the shopping center is provided via an existing left-out restricted driveway on 29 Palms Highway and a full-access, stop-controlled driveway along Balsa Avenue.

The Project consists of a 1,025-square-foot building with dual drive-through lanes and 18 parking spaces and will connect to the existing shopping center parking lot with site access provided via the two existing driveways described above.

Project Trip Generation

The trip generation estimates for the Project were developed using average trip rates and pass-by reduction factors from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition, September 2021).

Based on the ITE Trip Generation Manual and the proposed Project land use, the Project is expected to generate approximately 358 daily trips, including 89 (44-in/45-out) AM peak hour trips and 30 (15-in/15-out) PM peak hour trips. It should be noted that after applying a pass-by (existing trips on the main roadway system) reduction factor, the project would generate 35 net new daily trips, with 8 net new trips in the AM peak hour and 2 net new trips in the PM peak hour on the existing adjacent roadway network. As a conservative approach, pass-by reductions were not applied to the traffic analysis.

Project Study Area

The Town of Yucca Valley does not have traffic analysis guidelines. As a result, traffic analysis criteria and assumptions were based on the San Bernardino County *Transportation Impact Study Guidelines* (TIS Guidelines: July 9, 2019), as well as coordination with Town staff through a traffic scoping process. Per the San Bernardino County TIS Guidelines, the study area was defined using the following criteria:

> Intersections in which the Project would add 50 or more trips during any peak hour
> Site access driveways

Based on the San Bernardino County TIS Guidelines and the Traffic Scoping Memorandum approved by Town of Yucca Valley staff, the following three (3) intersections were included for analysis:

Intersections

1. Balsa Avenue & 29 Palms Highway (Signalized)
2. Balsa Avenue & Project Driveway/Sonic Driveway (TWSC)
3. Balsa Avenue & Sunnyslope Drive (TWSC)

Note:
TWSC =Two-Way Stop-Controlled

As a conservative approach, the traffic analysis assumes that all Project traffic will enter and exit via the full-access driveway on Balsa Avenue. This location is represented as a worst-case scenario due to the higher number of turning movement conflicts (left turns out of the driveway) at the Balsa Avenue driveway, compared to the 29 Palms Highway driveway.

Intersection Analysis Summary

Table ES.1 displays the intersection level of service (LOS) results under Existing, Opening Year 2027 Cumulative, and Opening Year 2027 Cumulative with Project conditions.

Table ES.1 Intersection LOS Results

			Avg. Delay (Sec.)	LOS	Avg. Delay (Sec.)	LOS	Avg. Delay (Sec.)	LOS
1	Balsa Avenue & 29 Palms Highway	AM	18.8	B	19.1	B	20.0	C
		PM	22.4	C	22.8	C	23.1	C
2	Balsa Avenue & Project Driveway/Sonic Driveway	AM	10.0	B	10.1	B	10.8	B
		PM	11.7	B	12.1	B	12.6	B
3	Balsa Avenue & Sunnyslope Drive	AM	10.1	B	10.2	B	10.5	B
		PM	11.5	B	11.8	B	12.0	B

Source: CR Associates (2026)

LOS Impacts and Improvement Thresholds

Based on the San Bernardino County TIS Guidelines and the analysis presented in this report, the addition of Project traffic would not cause deficiencies nor create adverse effects on traffic operations at the study intersections. Therefore, no traffic-related improvements at the study intersections would be required for the Project.

Drive Through Queueing Analysis Summary

Drive-through queuing data collection was conducted at the following three (3) existing Dutch Bros coffee shop locations, which are comparable to the proposed location in that the existing locations have dual-drive-through lanes and have limited to no indoor seating:

44175 Jefferson Street, La Quinta, CA 92253
34051 Date Palm Drive, Cathedral City, CA 92234
81-776 Highway 111, Indio, CA 92201

Table ES.2 displays the peak queue, as well as the average and 85th percentile queue, for the peak 15-minute interval during the AM and PM peak operation conditions for both weekday and weekend.

Table ES.2 Drive Through Queuing Analysis Results

		TOD	Avg. Queue	85th Percentile	Peak Queue	TOD	Avg. Queue	85th Percentile	Peak Queue
44175 Jefferson Stree, La Quinta, CA	AM	8:15	20	22	23	8:15	15	17	17
	PM	3:15	13	15	15	4:30	13	13	13
34051 Date Palm Dr, Cathedral City, CA	AM	8:30	16	18	18	9:00	3	9	9
	PM	2:00	14	16	16	2:15	18	20	20
81-776 Highway 111, Indio, CA	AM	8:15	15	16	16	7:45	9	10	10
	PM	4:45	9	10	10	4:45	11	12	12

Source: CR Associates (2026)

Notes:
TOD = Time of Day

Based on the data collection, the peak observed queue was 23 vehicles between 8:15 8:30 AM during the AM peak period on a typical weekday at the existing La Quinta location. The proposed drive-through queuing capacity for the Project would be 23 vehicles. Therefore, the proposed drive-through capacity would accommodate the anticipated peak drive-through demand. It should be noted that if the drive-through queue were to spill out of the drive-through lane, the queue would be able to be accommodated by internal drive aisles and is not expected to spill out into the public right-of-way.

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1.0 Introduction

The purpose of this Local Transportation Assessment (LTA) is to evaluate the traffic-related effects the proposed Dutch Bros Coffee would have on the surrounding transportation network and determine if additional improvements should be provided, as necessary.

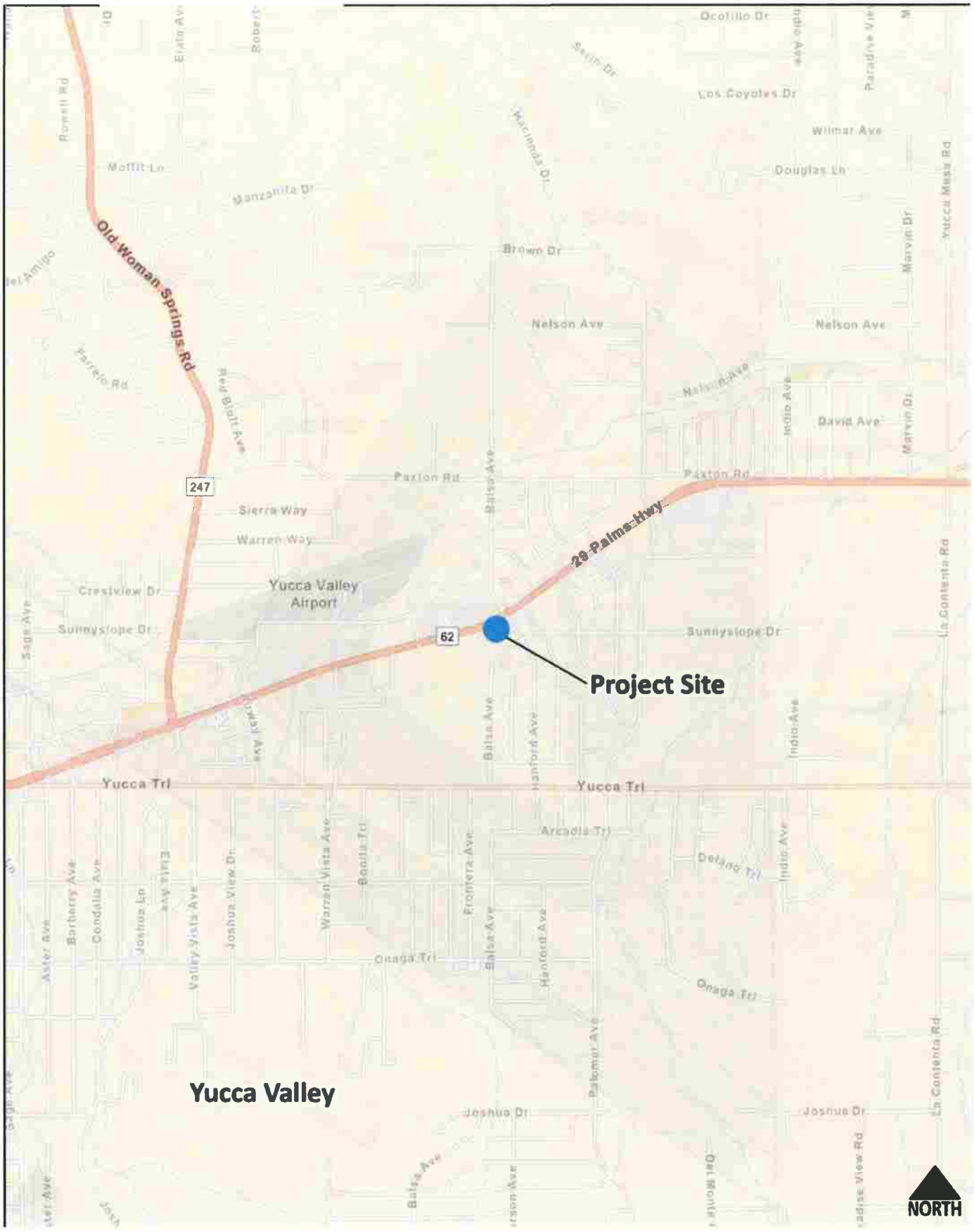
Project Description

Balsa Avenue in the Town of Yucca Valley, California. The shopping center currently consists of a Big 5 Sporting Goods store located to west of the Project site and a Walgreens located to the east. Access to the shopping center is provided by an existing left-out restricted driveway on 29 Palms Highway and a full-access, stop-controlled driveway along Balsa Avenue.

The Project consists of a 1,025-square-foot building with dual drive-through lanes and 18 parking spaces and will connect to the existing shopping center parking lot with site access provided via the two existing driveways described above.

Based on discussions with Town of Yucca Valley staff during the traffic scoping process and as a conservative approach, the traffic analysis assumes that all Project traffic will enter and exit via the full-access driveway on Balsa Avenue. This location is represented as a worst-case scenario due to the higher number of turning movement conflicts (left turns out of the driveway) at the Balsa Avenue driveway, compared to the 29 Palms Highway driveway.

Figure 1.1 Figure 1.2 displays the site plan for the proposed Project.



Dutch Bros Coffee Project
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Figure 1.1
Project Regional Location

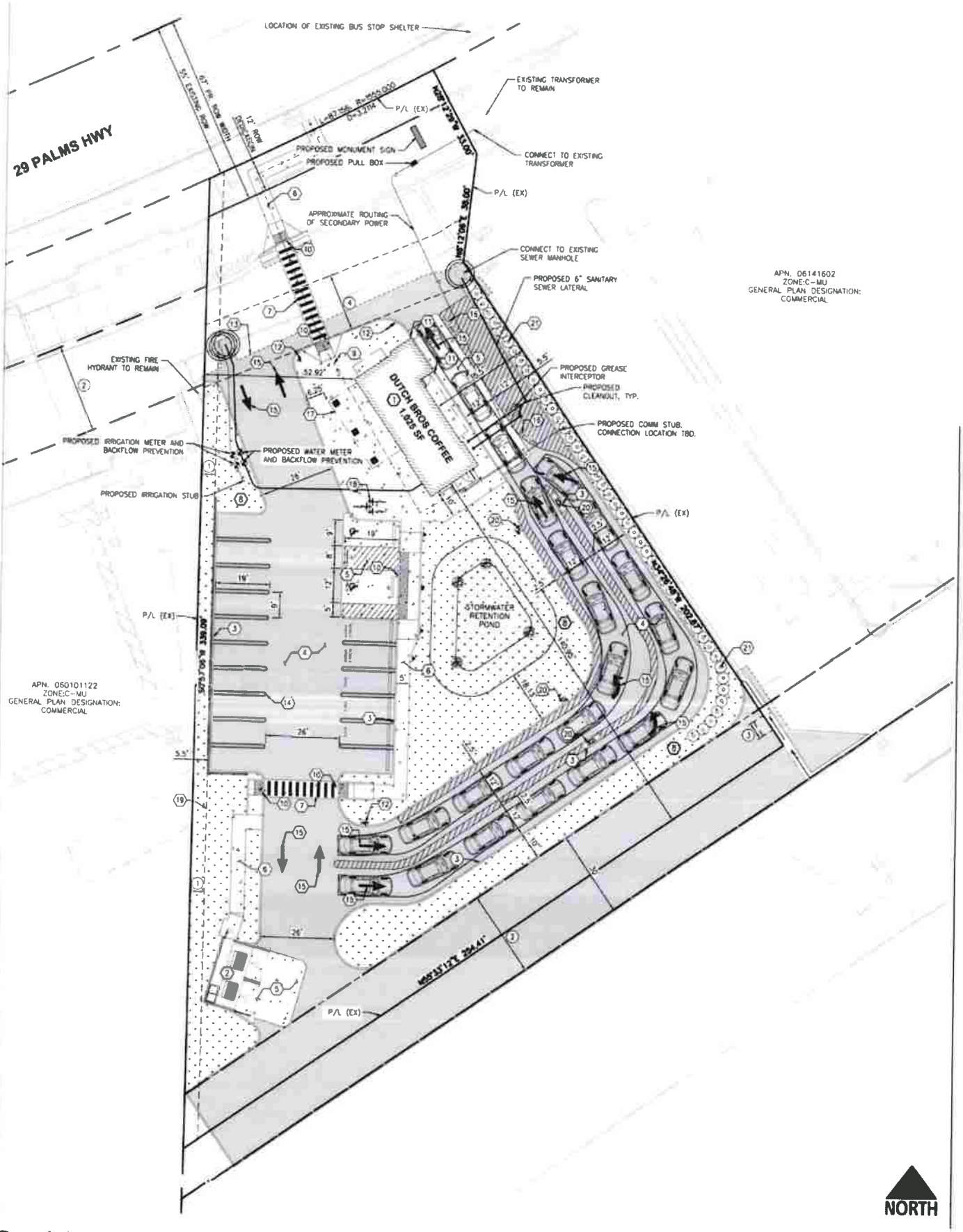

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Figure 1.2
Project Site Plan

Report Organization

Following this introductory chapter, this report is organized into the following chapters:

2. Analysis Methodology This chapter reviews the methods utilized to evaluate any potential Town General Plan inconsistencies associated with the implementation of the proposed Project.
3. Project Traffic - This chapter describes the p
   generation. Additional information such as trip distribution patterns and project trip assignment are also included in this chapter, which is used to determine the project study area.
4. Existing Conditions This chapter describes and evaluates the existing transportation network. Vehicular operations and LOS analysis results are provided within the study area for existing vehicular traffic conditions.
5. Opening Year 2027 Cumulative Conditions This chapter describes and establishes an Opening Year 2027 baseline, incorporating ambient growth and Cumulative Projects in the project vicinity. LOS results are provided for Opening Year 2027 Cumulative conditions, with and without Project traffic, along with improvement recommendations, if necessary.
6. Site Access & Circulation This chapter addresses access to the Project site and discusses the functionality of the p
7. Drive-Through Queue Analysis This chapter describes and evaluates the queue associated with the drive-through operations of the proposed Project.

2.0 Analysis Methodology

This study was performed in accordance with the standards and requirements in the San Bernardino County TIS Guidelines and approved Traffic Scoping Memorandum for the Project, which is provided in Appendix A.

Level of Service (LOS) Definition

Level of Service (LOS) is a quantitative measure describing operational conditions within a traffic

describes these conditions in terms of such factors as delay, speed, travel time, freedom to maneuver, interruptions in traffic flow, queuing, comfort, and convenience. Table 2.1 describes generalized definitions of the various LOS categories (A through F) as applied to roadway and intersection operations.

Table 2.1 - LOS Definitions

A	This LOS represents a completely free-flow condition, where the operation of vehicles is virtually unaffected by the presence of other vehicles and only constrained by the geometric features of the highway and by driver preferences.
B	This LOS represents a relatively free-flow condition, although the presence of other vehicles becomes noticeable. Average travel speeds are the same as in LOS A, but drivers have slightly less freedom to maneuver.
C	At this LOS, the influence of traffic density on operations becomes marked. The ability to maneuver within the traffic stream is clearly affected by other vehicles.
D	At this LOS, the ability to maneuver is notably restricted due to traffic congestion, and only minor disruptions can be absorbed without extensive queues forming and the service deteriorating.
E	This LOS represents operations at or near capacity. LOS E is an unstable level, with vehicles operating with minimum spacing for maintaining uniform flow. At LOS E, disruptions cannot be dissipated readily thus causing deterioration down to LOS F.
F	At this LOS, forced or breakdown of traffic flow occurs, although operations appear to be at capacity, queues form behind these breakdowns. Operations within queues are highly unstable, with vehicles experiencing brief periods of movement followed by stoppages.

Source: Highway Capacity Manual 7th Edition

Peak Hour Intersection LOS Standards and Thresholds

This section presents the methodologies used to perform peak hour intersection analyses at both signalized and unsignalized intersections within the study area. The following assumptions were utilized in conducting all intersection LOS analyses:

Peak Hour Factor (PHF) Field-collected PHF for all scenarios.

Lane Utilization Factor HCM 7th Edition defaults were used for all scenarios.

Heavy Vehicle Factor A 2% heavy vehicle factor was assumed for all scenarios.

Signal Timing Based on existing signal timing plans provided in Appendix B.

2.2.1 Signalized Intersections

The analysis of signalized intersections utilized the operational analysis procedure as outlined in the Highway Capacity Manual (HCM) 7th Edition signalized (Chapter 19) intersection analysis methodology. This method defines LOS in terms of delay, or more specifically, average stopped delay per vehicle. Delay is a measure of driver and/or passenger discomfort, frustration, fuel consumption and lost travel time. This technique applies a maximum vehicles per hour per lane (VPHPL) as the maximum intersection saturation volume, consistent with adopted saturation flow rates under the San Bernardino County Transportation Authority Congestion Management Program. This saturation volume is adjusted to account for lane width, on street parking, pedestrians, traffic composition (i.e., percentage of trucks) and shared lane movements (i.e., through and right turn movements originating from the same lane). The LOS criteria used for the analysis of signalized intersections are described in Table 2.2, identifying the thresholds of control delays and the associated LOS. The computerized analysis of intersection operations was performed utilizing the Synchro Version 12 traffic analysis software by Trafficware Ltd.

Table 2.2 - Signalized Intersection LOS Operational Analysis Method

<10	LOS A describes operations with very low delay. This occurs when progression is extremely favorable, and most vehicles do not stop at all. Short cycle lengths may also contribute to low delay.
>10 20	LOS B describes operations with generally good progression and/or short cycle lengths. More vehicles stop than for LOS A, causing higher levels of average delay.
>20 35	LOS C describes operations with higher delays, which may result from fair progression and/or longer cycle lengths. Individual cycle failures may begin to appear at this level. The number of vehicles stopping is significant at this level, although many still pass through the intersection without stopping.
>35 55	LOS D describes operations with high delay, resulting from some combination of unfavorable progression, long cycle lengths, or high volumes. The influence of congestion becomes more noticeable, and individual cycle failures are noticeable.
>55 80	LOS E is considered the limit of acceptable delay. Individual cycle failures are frequent occurrences.
>80	LOS F describes a condition of excessively high delay, considered unacceptable to most drivers. This condition often occurs when arrival flow rates exceed the LOS D capacity of the intersection. Poor progression and long cycle lengths may also be major contributing causes to such delay.

Source: Highway Capacity Manual 7th Edition

2.2.2 Unsignalized Intersections

Unsignalized intersections were analyzed using the Highway Capacity 7th Edition side-street stop (Chapter 20) and all-way stop (Chapter 21) intersection analysis methodology. The computerized analysis of intersection operations was performed utilizing the Synchro Version 12 traffic analysis software by Trafficware Ltd.

LOS was determined as follows:

All-way stop intersections: Reported for the entire intersection as an average value
Side-street stop intersections: Reported for the worst-case movement

The LOS thresholds used for the analysis of unsignalized intersections are shown in Table 2.3.

Table 2.3 - LOS Criteria for Stop-Controlled Unsignalized Intersections

0 10	A
>10 15	B
>15 25	C
>25 35	D
>35 50	E
> 50	F

Source: Highway Capacity Manual 7th Edition

Determination of Project Study Area

Per the San Bernardino County TIS Guidelines, the study area was defined using the following criteria:

Intersections in which the Project would add 50 or more trips during any peak hour
Site access driveways

Based on discussions with Town of Yucca Valley staff, a roadway segment analysis was not required, therefore a roadway segment analysis was not included as part of this study.

LOS Thresholds and Significance Criteria

The San Bernardino County General Plan establishes acceptable LOS criteria for the Desert, Valley, and Mountain regions. The Town of Yucca Valley is located in the Desert region of the County. Consistent with the San Bernardino County TIS Guidelines, LOS for the Desert region should consider the following thresholds and improvement requirements for both signalized and unsignalized intersections:

Signalized Intersections

Any signalized intersection in the Desert region that is operating at an acceptable LOS C or better without project traffic in which the addition of project traffic causes the intersection to degrade to an LOS D, E, or F shall identify improvements to improve operations to at least LOS C.

Any signalized study intersection in the Desert region that is operating at LOS D, E, or F without project traffic where the project increases delay by 5.0 or more seconds shall identify improvements to offset the increase in delay.

Unsignalized Intersections

An improvement would be required if section a) or both sections b) and c) occur:

a) The addition of Project traffic causes the intersection to degrade from a LOS C or better to an LOS D or worse in the Desert region.

OR

b) The Project adds 5.0 seconds or more of delay to an intersection that is already projected to operate without project traffic at an LOS D, E, or F in the Desert region.

AND

c) One or both of the following conditions are met:

1) The Project adds ten (10) or more trips to any minor street approach.

2) The intersection meets the peak hour traffic signal warrant after the addition of project traffic.

In the Desert region, improvements should be identified that would achieve LOS C or better for case a) above or to pre-project conditions LOS and delay for case b) above.

3.0 Project Traffic

This chapter describes the estimated trip generation, trip distribution patterns, and trip assignment for the Project.

Project Trip Generation

Trip generation estimates for the Project were developed using average trip rates from the Institute of Transportation Engineer (ITE) *Trip Generation* Manual (11th Edition). Excerpts from the ITE Trip Generation Manual are provided in Appendix C.

Table 3.1 displays the

Table 3.1 - Proposed Project Trip Generation

				Trips	Split (%)	In	Out	Trips	Split (%)	In	Out
Coffee Shop with Drive-Through Window and No Indoor Seating (938)	2 Drive-Through Lanes	179 / Drive-Through Lane	358	89	50:50	44	45	30	50:50	15	15
Pass-By Reductions[1]		*90%*	*-323*	*-81*	–	*-40*	*-41*	*28*	–	*-14*	*-14*
Total Net			35	8	–	4	4	2	–	1	1

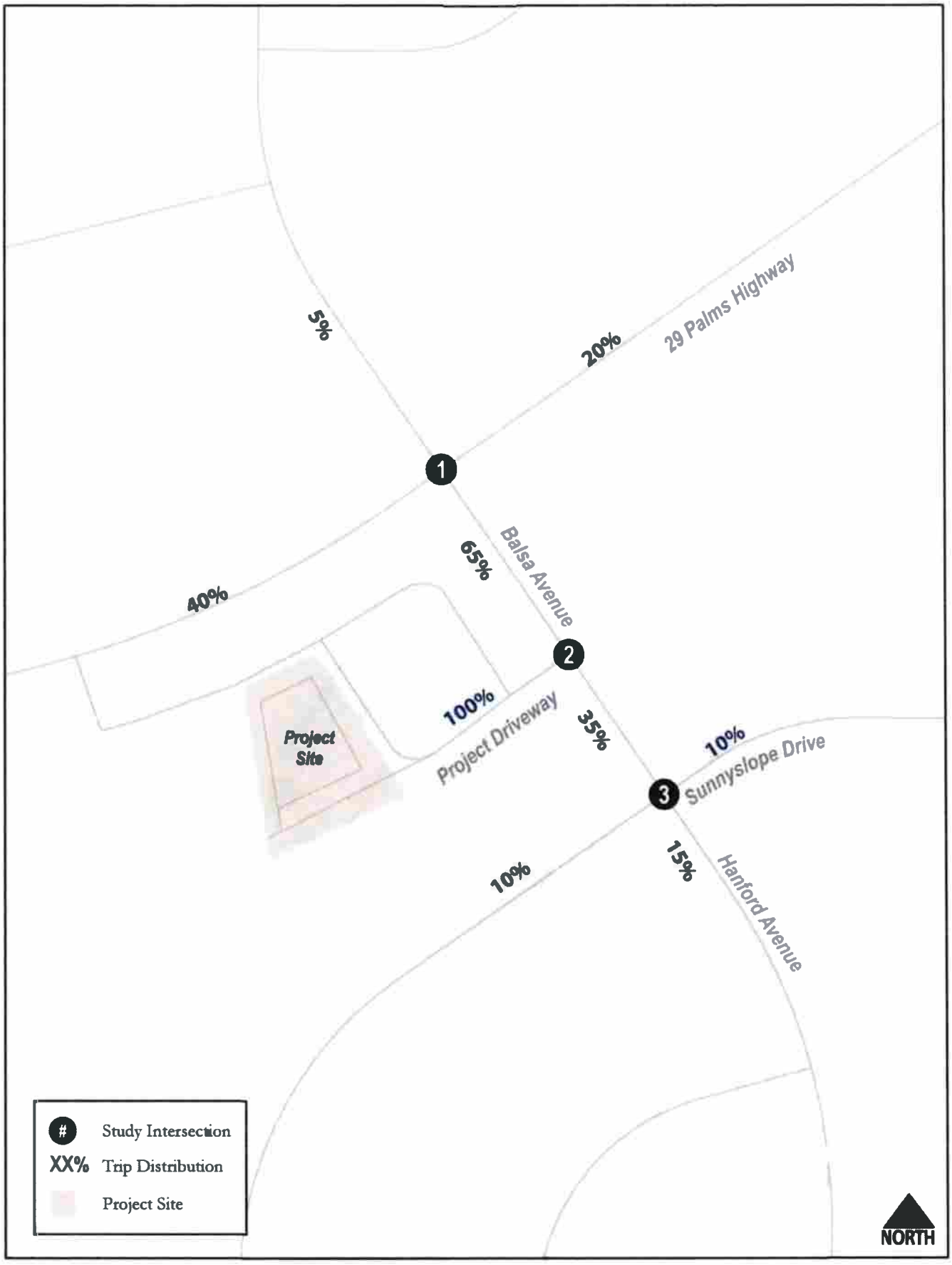
Source: ITE Trip Generation Manual (11th Edition)

Notes:
[1] Pass-by reductions were estimated based on the ITE Trip Generation Manual, 11th Edition: Vehicle Pass-By Rates by Land Use.

As shown in Table 3.1, the Project is expected to generate approximately 358 daily trips, including 89 (44-in/45-out) AM peak hour trips and 30 (15-in/15-out) PM peak hour trips. It should be noted that after applying a pass-by (existing trips on the main roadway system) reduction factor, the project would generate 35 net new daily trips, with 8 net new trips in the AM peak hour and 2 net new trips in the PM peak hour on the existing adjacent roadway network. As a conservative approach, pass-by reductions were not applied to the traffic analysis.

Project Trip Distribution and Assignment

The project trip distribution was developed using engineering judgement based upon project land use characteristics, location, and corresponding land uses in the vicinity of the project site. Figure 3.1 displays the regional trip distribution for the Project. Based upon AM/PM peak hour project trip generation and the project trip distribution, project trips were assigned to the study intersections. Figure 3.2



Dutch Bros Coffee Project
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Figure 3.1
Project Trip Distribution

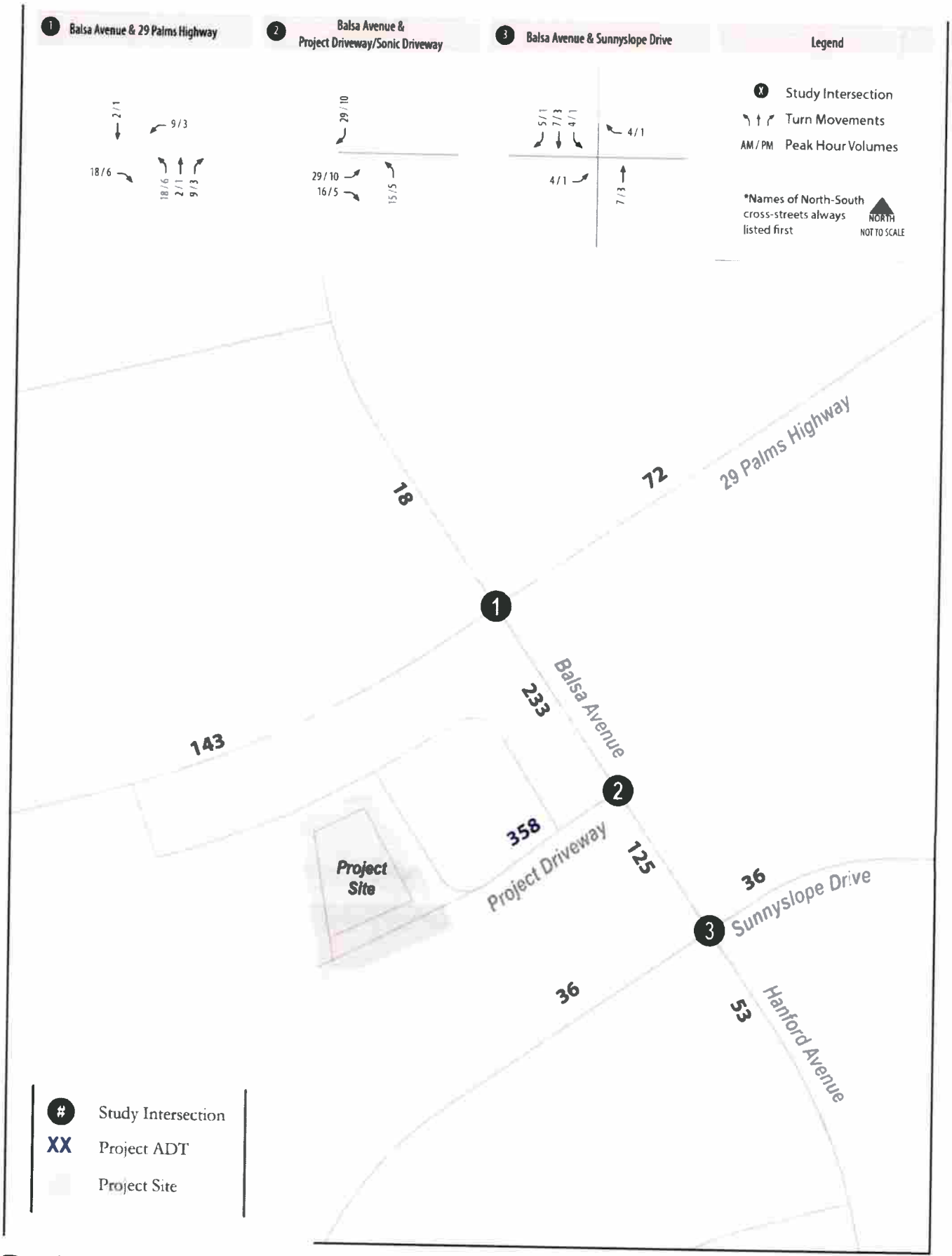

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Figure 3.2
Project Trip Assignment

Project Study Area

Based on the criteria previously outlined in Chapter 2.3, and the Traffic Scoping Memorandum approved by Town of Yucca Valley staff, the following three (3) intersections were included for analysis:

Intersections

4. Balsa Avenue & 29 Palms Highway (Signalized)
5. Balsa Avenue & Project Driveway/Sonic Driveway (TWSC)
6. Balsa Avenue & Sunnyslope Drive (TWSC)

Note:
TWSC =Two-Way Stop-Controlled

Figure 3.3 displays the overall project study area.

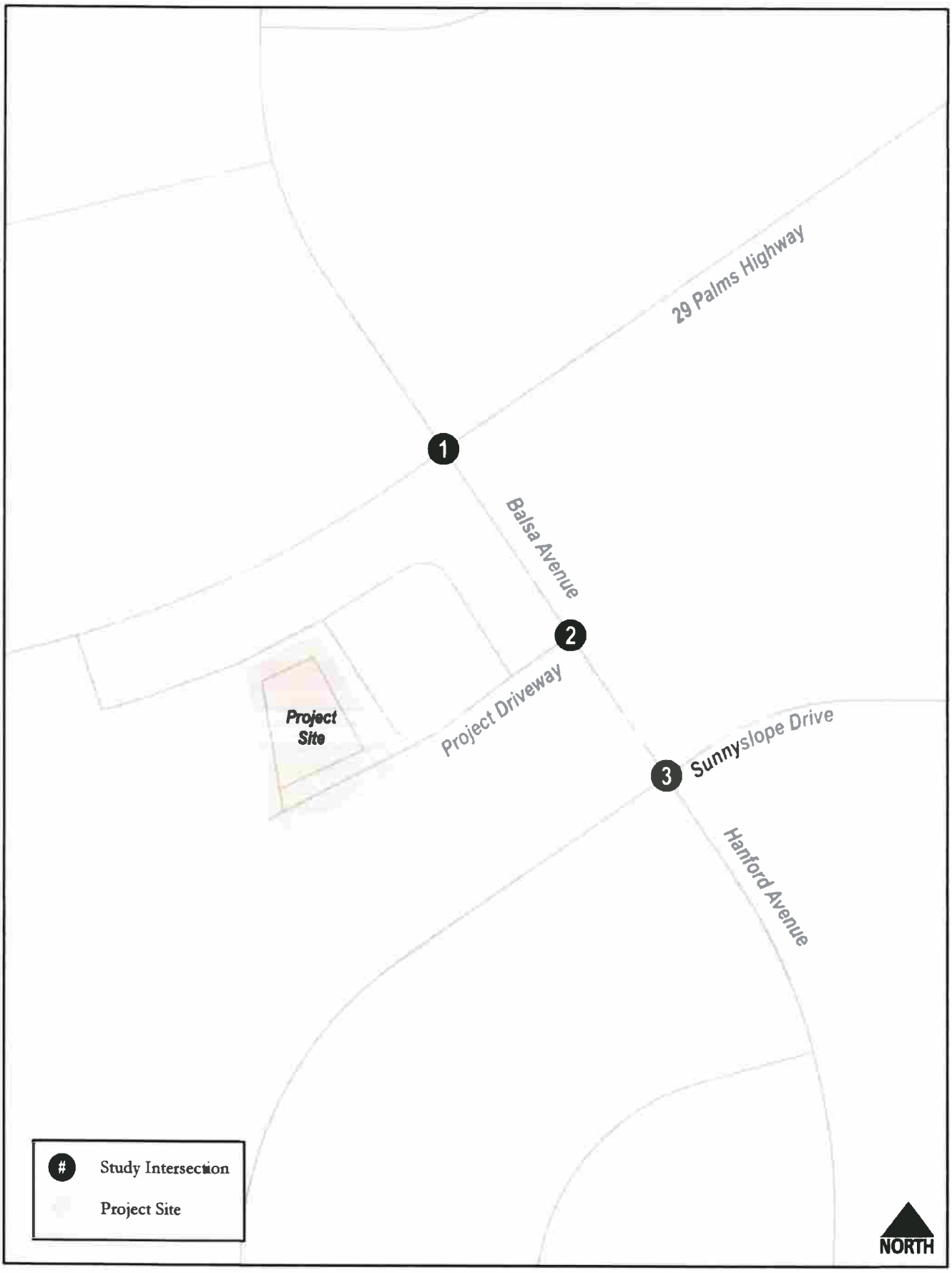

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Figure 3.3
Project Study Area

4.0 Existing Conditions

This chapter provides a qualitative description of the transportation facilities located in the Project study area. A LOS analysis of the existing operations of the local transportation network facilities is also provided for study intersections.

Existing Transportation Network

Access to the Project from the regional transportation network will be provided via an existing full-movement driveway on Balsa Avenue (near Walgreens drug store) and one existing left-out restricted driveway on 29 Palms Highway (near Big 5 Sporting Goods store). These facilities provide a direct connection to the Project, via project driveways. The existing active transportation facilities are displayed in Figure 4.1. Table 4.1 summarizes the existing physical characteristics of roadways within the study area, while Figure 4.2 displays the study intersection geometrics under Existing conditions.

Table 4.1 - Existing Transportation Network Characteristics

29 Palms Highway	West of Balsa Avenue	5	TWLTL	Contiguous on both sides	Class III	Routes: 1, 7A, 7B, 15, and 21	40 mph
29 Palms Highway	East of Balsa Avenue	4	Raised/TWLTL	South side only	Class III	Routes: 1, 7A, 7B, 15 and 21	40 mph
Balsa Avenue	North of 29 Palms Highway	4	Raised	East side only	None	Routes: 7A and 21	35 mph
Balsa Avenue	Between 29 Palms Highway and Sunnyslope Drive	3	Striped	Contiguous on both sides	None	None	35 mph

Source: CR Associates (2026)

Notes:
TWLTL = Two-Way Left-Turn Lane

Pedestrian, Bicycle and Transit

4.2.1 Pedestrian

Sidewalks are proposed within the Project site to provide pedestrian connectivity between the Project and existing off-site sidewalks immediately adjacent to the site. Continental crosswalks are provided throughout the Project site to enhance driver awareness within internal roadways and parking lot areas. Based on the proposed and existing features, pedestrian facilities are considered adequate to accommodate project-related pedestrian activity.

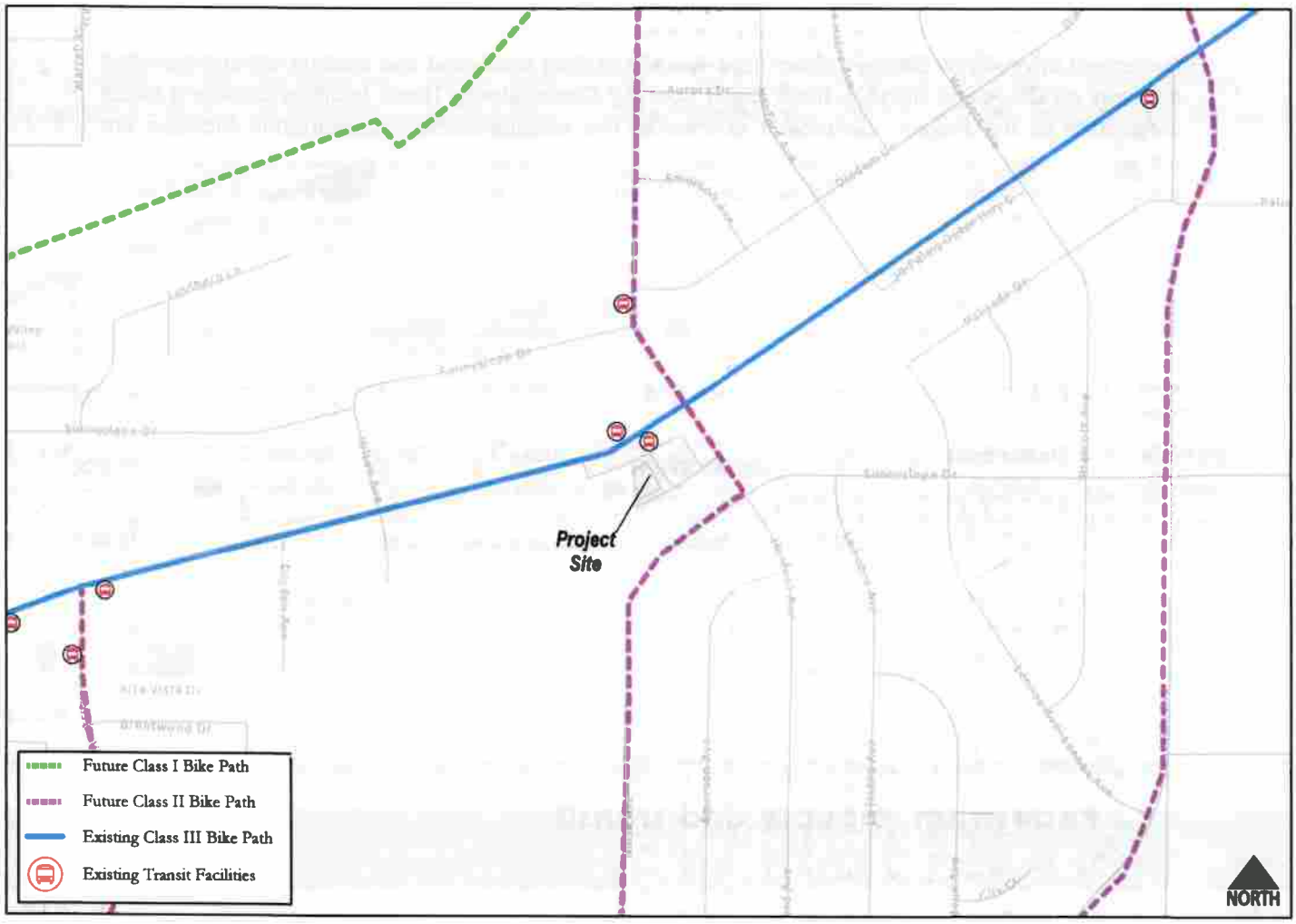

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Figure 4.1
Active Transportation Facilities

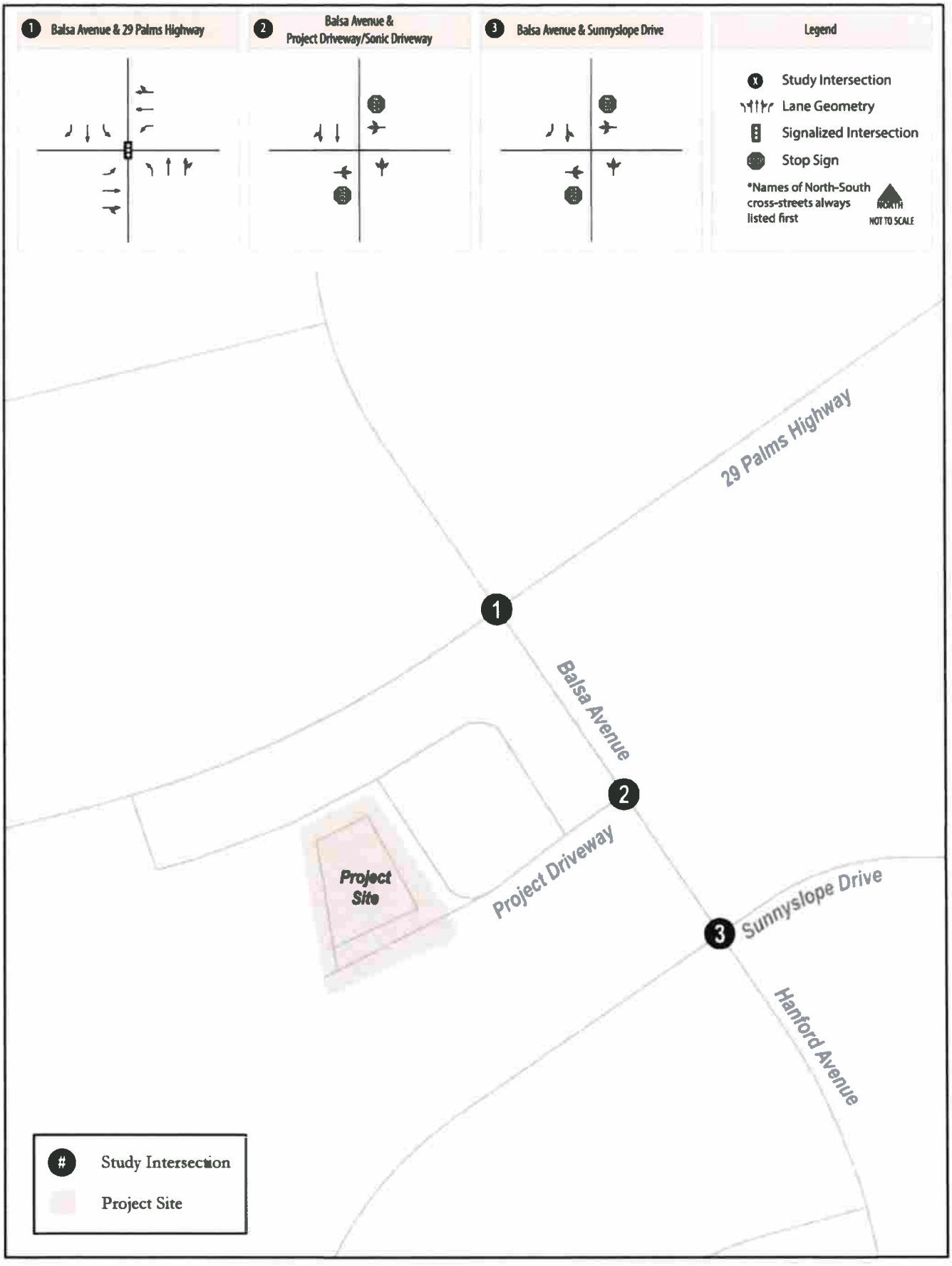

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Figure 4.2
Intersection Geometrics
Existing Conditions

4.2.2 Bicycle

An existing Class III bicycle facility runs east/west along 29 Palms Highway, while no designated bicycle facilities currently exist along Balsa Avenue. The Yucca Valley General Plan Circulation Element identifies a future Class II bicycle lane along Balsa Avenue adjacent to the Project site. The proposed Project site plan would allow bicycle access via adjacent roadways and internal drive aisles.

4.2.3 Transit

The nearest bus stop is located on the south side of 29 Palms Highway, approximately 300 feet walking distance from the project site and provides service for the following Basin Transit bus routes:

Route 1 This bus route is serviced along 29 Palms Highway and connects the Yucca Valley Transit Center, Hi-Desert hospital, Indian Cove, and the 29 Palms Transit Center.

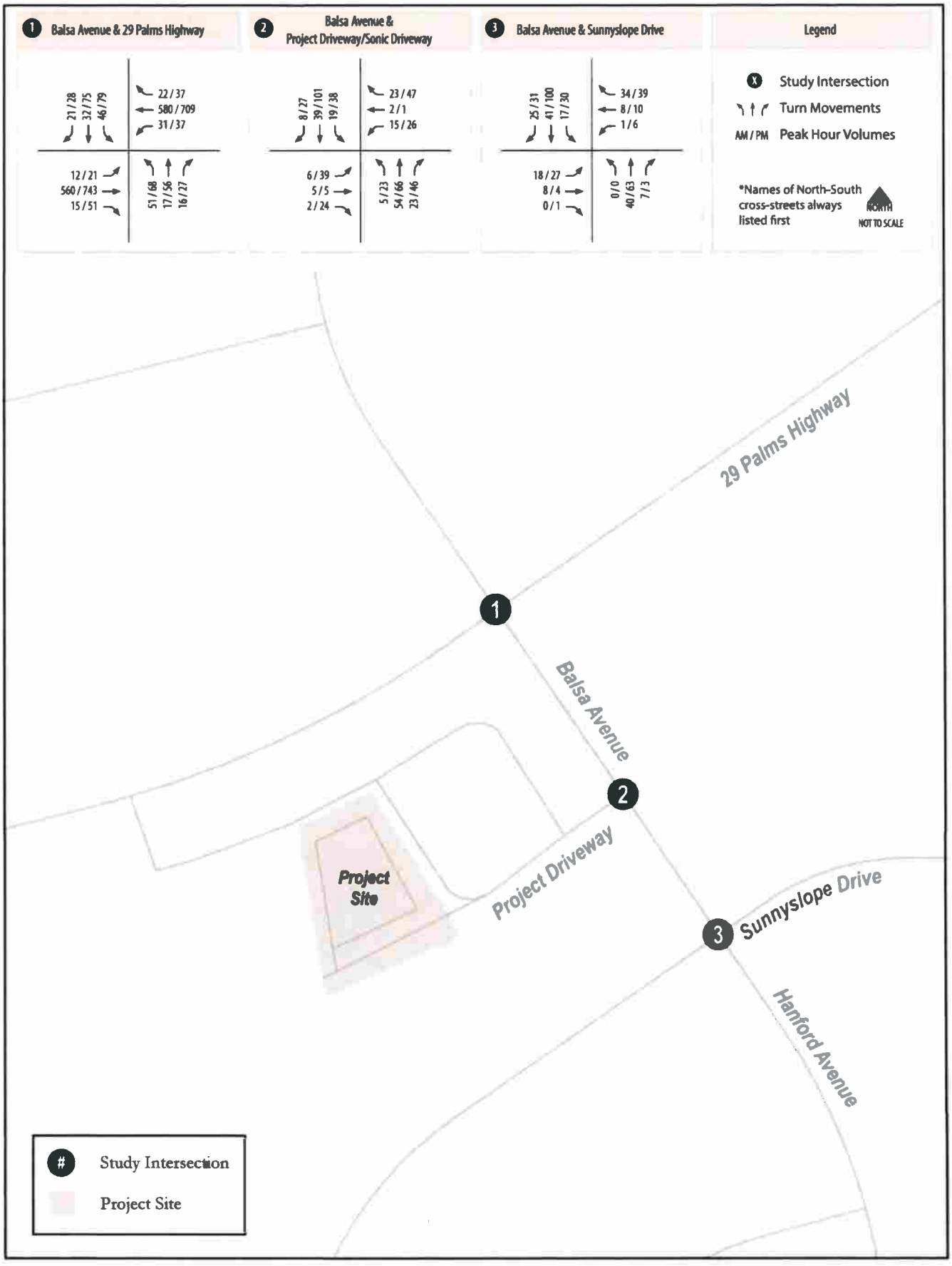
Route 7A This bus route is serviced along 29 Palms Highway and connects the Yucca Valley Transit Center, Walmart Center, and Town Hall.

Route 21 This bus route is serviced along 29 Palms Highway and connects the Yucca

proposed Project would not conflict with existing or planned transit facilities.

Existing Intersection Volumes

Traffic counts for the study intersections were conducted in June 2025 and November 2025, when schools were in session. Traffic count sheets are provided in Appendix D. Existing AM/PM peak hour intersection turning movements for the study intersections are displayed in Figure 4.3.



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Local Transportation Assessment

Figure 4.3
Traffic Volumes
Existing Conditions

Existing Traffic Conditions

LOS analyses under Existing conditions were conducted using the methodologies described in Chapter 2. Intersection LOS analysis results are discussed below.

4.4.1 Intersection Analysis

Table 4.2 displays intersection LOS and average vehicle delay results for the study intersections under Existing conditions. LOS calculation worksheets for Existing conditions are provided in Appendix E.

Table 4.2 - Peak Hour Intersection LOS Results Existing Conditions

			Avg. Delay (Sec.)	LOS	Avg. Delay (Sec.)	LOS
1	Balsa Avenue & 29 Palms Highway	Signal	18.8	B	22.4	C
2	Balsa Avenue & Project Driveway/Sonic Driveway	TWSC	10.0	B	11.7	B
3	Balsa Avenue & Sunnyslope Drive	TWSC	10.1	B	11.5	B

Source: CR Associates (2026)

Note:
TWSC = Two-Way Stop-Controlled. For TWSC, the delay shown is the worst delay experienced by any of the approaches.

As shown in Table 4.2, all study intersections currently operate at an acceptable LOS under Existing conditions.

5.0 Opening Year 2027 Cumulative Conditions

This section provides an analysis of Opening Year 2027 Cumulative conditions, both with and without the proposed Project. The scenarios analyzed in this section include:

Opening Year 2027 Cumulative
Opening Year 2027 Cumulative with Project

Opening Year 2027 Cumulative Roadway Network and Traffic Volumes

Intersection geometrics under Opening Year 2027 Cumulative conditions were assumed to be identical to Existing conditions, as previously shown in Figure 4.2.

The Opening Year Cumulative 2027 conditions traffic volumes were derived by using the formula below. For the Opening Year 2027 Cumulative scenario, an ambient annual growth rate of three (3) percent per year was applied over two (2) years for Opening Year 2027.

where

Future Volume = future year projected traffic volume (veh/hr)
Existing Volume = current year traffic volume counts, typically peak hour (veh/hr)
Rate = average yearly growth factor, expressed as a decimal
# years = number of years projected out in the future

The Opening Year 2027 growth scenario traffic volumes were developed by applying the total ambient growth factor of 6% to existing traffic volumes. Figure 5.1 displays the resulting growth volumes.

Cumulative Project Traffic

Cumulative Projects that are anticipated to contribute traffic within the Project study area, per the Yucca Valley November 2025 Land Development Update Report, were included as part of the analysis. As a conservative approach, no trip credits were applied to these projects, and their full trip generation was included as Cumulative Project traffic.

The Cumulative Projects traffic was assigned to the project study area as identified within their respective traffic study. The trip generation assumptions for Cumulative Projects without completed traffic studies were developed and assigned to the project study area utilizing the same methodology used for the Project described in Chapter 3. Figure 5.2 displays the location of the Cumulative Projects. Table 5.1 displays the projected trip generation for the ten (10) Cumulative Projects identified.

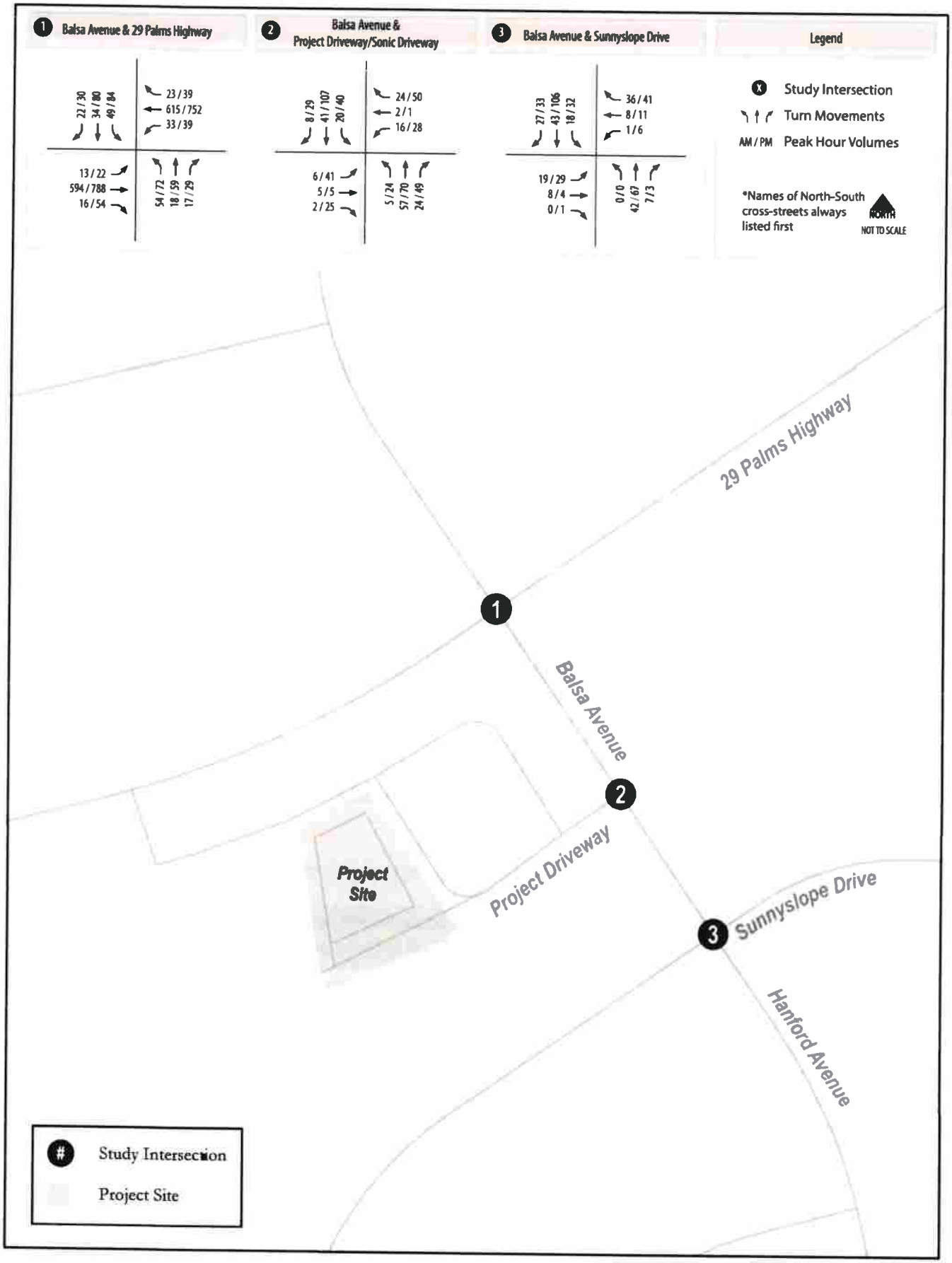

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Figure 5.1
Traffic Volumes
Resulting Ambient Growth

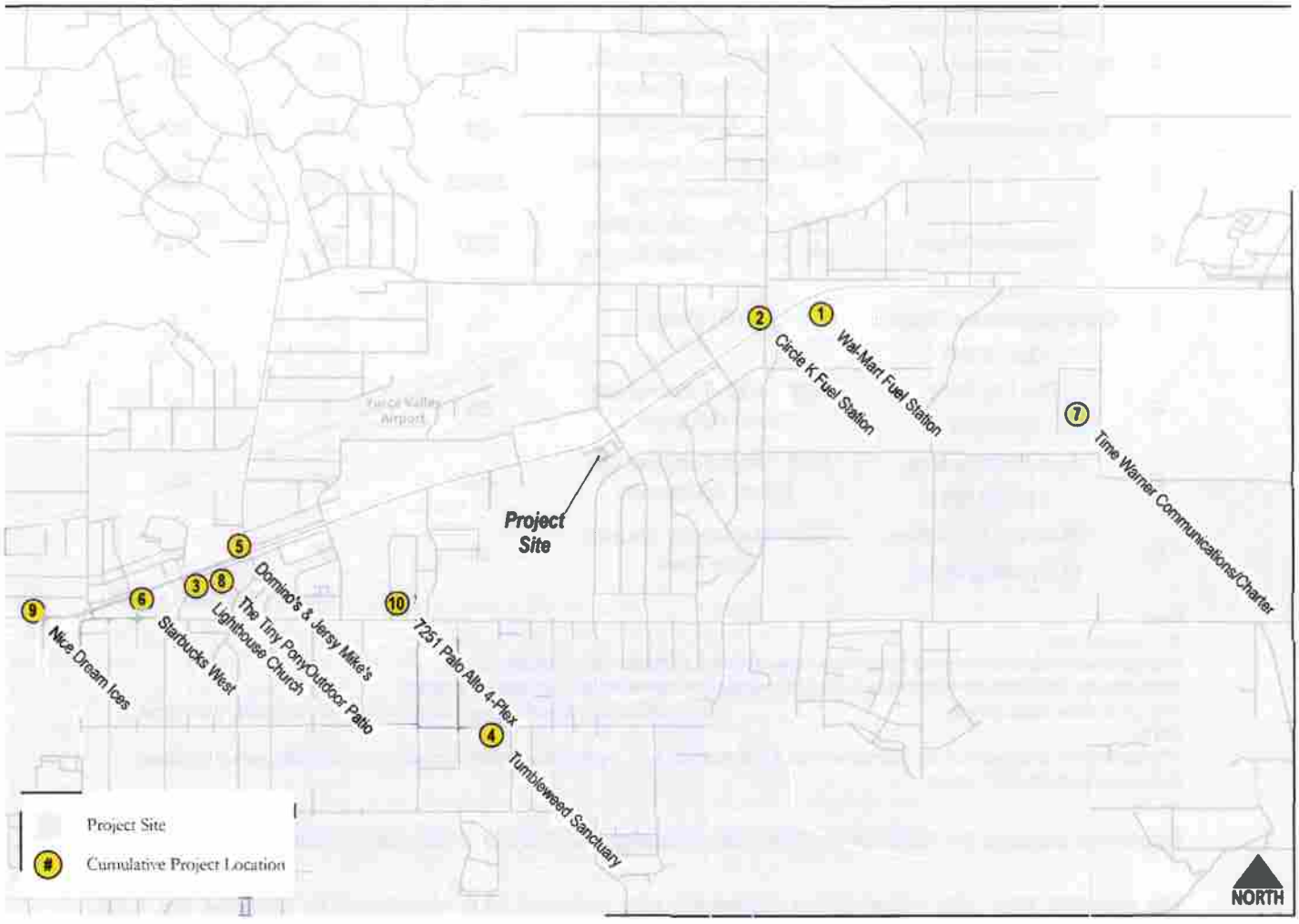

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Figure 5.2
Cumulative Project Locations

Table 5.1 - Cumulative Project Trip Generation Estimates

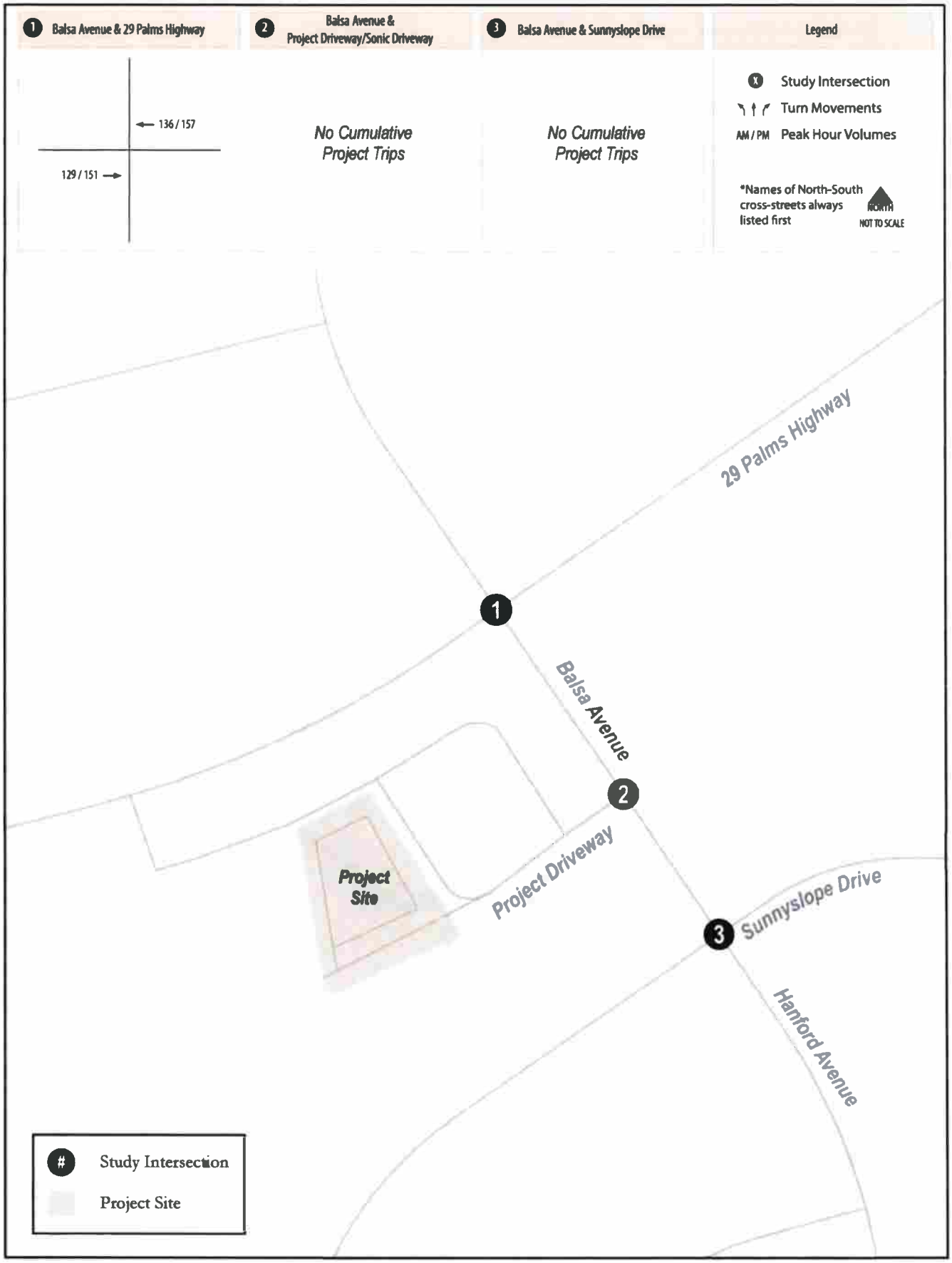
1	Wal-Mart Fuel Station (6 Fueling Dispensers)	944 - Gasoline / Service Station	1,032	71	92
2	Circle K Fuel Station (5,200 SF)	945 - Convenience Store/Gas Station	2,639	202	240
3	Lighthouse Church (9,475 SF Church, 1,470 SF Coffee Shop)	560 Church / 938 Coffee/Donut Shop with Drive-Thru Window	244	51	24
4	Tumbleweed Sanctuary[1]	561 Assembly Hall	99	10	20
5	[2]	934 - Fast-Food Restaurant w/o Drive-through	1,558	113	128
6	Starbucks West[3]	937 - Coffee/Donut Shop with Drive-Through Window	840	90	41
7	Time Warner Communications/Charter (1,678 SF)	170 - Utility	21	4	4
8	The Tiny Pony (533 SF)	932 High-Turnover (Sit-Down) Restaurant	56	7	9
9	Nice Dreams Ices (3,936 SF)	932 High-Turnover (Sit-Down) Restaurant	409	10	61
10	7251 Palo Alto 4-Plex (4 Dwelling Units)	220 - Multifamily Housing (Low-Rise)	25	2	3

Source: CR Associates (2026)

Note:
SF = Square Feet
[1] Trip generation obtained from the Tumbleweed Sanctuary A.P.N. 0588-016-01, 0588-021-28, 0588-021-21, 0588-021-29 Traffic Impact Analysis prepared by Translutions Inc (October 24, 2025).
[2] Trip generation obtained from A.P.N. 0601-402-15 Traffic Impact Analysis prepared by Kimley Horn (June 2, 2020).
[3] Trip generation obtained from the Starbucks West A.P.N 0595-371-21 Traffic Impact Analysis prepared by Linscott Law & Greenspan Engineers (September 27, 2023).

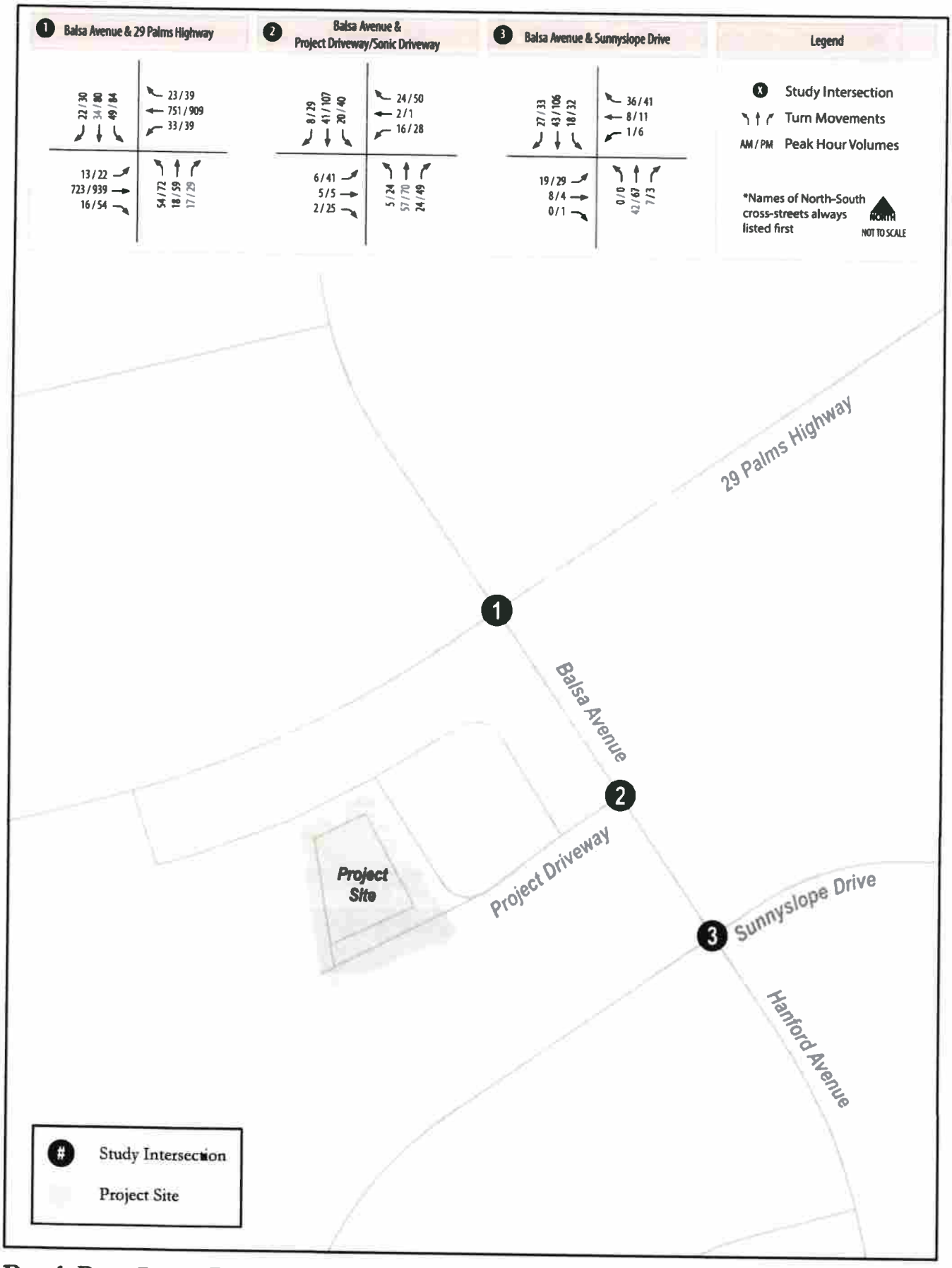
Figure 5.3 displays the Cumulative Projects trip assignment at the study intersections.

The Opening Year 2027 Cumulative scenario traffic volumes were developed by applying the total ambient growth existing traffic volumes (Figure 5.1) and adding the additional vehicular trips generated by the Cumulative Projects (Figure 5.3) listed above. Figure 5.4 displays intersection volumes under Opening Year 2027 Cumulative conditions for both the AM and PM peak hours.



Dutch Bros Coffee Project
Local Transportation Assessment

Figure 5.3
Cumulative Project Trip Assignment



Dutch Bros Coffee Project
Local Transportation Assessment

Figure 5.4
Traffic Volumes
Opening Year 2027 Cumulative Conditions

Opening Year 2027 Cumulative Conditions

LOS analyses under Opening Year 2027 Cumulative conditions were conducted using the methodologies described in Chapter 2. Intersection analysis results are discussed below.

5.3.1 Intersection Analysis

Table 5.2 displays intersection LOS and average vehicle delay results for the study intersections under Opening Year 2027 Cumulative conditions. LOS calculation worksheets for Opening Year 2027 Cumulative conditions are provided in Appendix F.

Table 5.2 - Peak Hour Intersection LOS Results Opening Year 2027 Cumulative Conditions

			Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS
1	Balsa Avenue & 29 Palms Highway	Signal	19.1	B	22.8	C
2	Balsa Avenue & Project Driveway/Sonic Driveway	TWSC	10.1	B	12.1	B
3	Balsa Avenue & Sunnyslope Drive	TWSC	10.2	B	11.8	B

Source: CR Associates (2026)

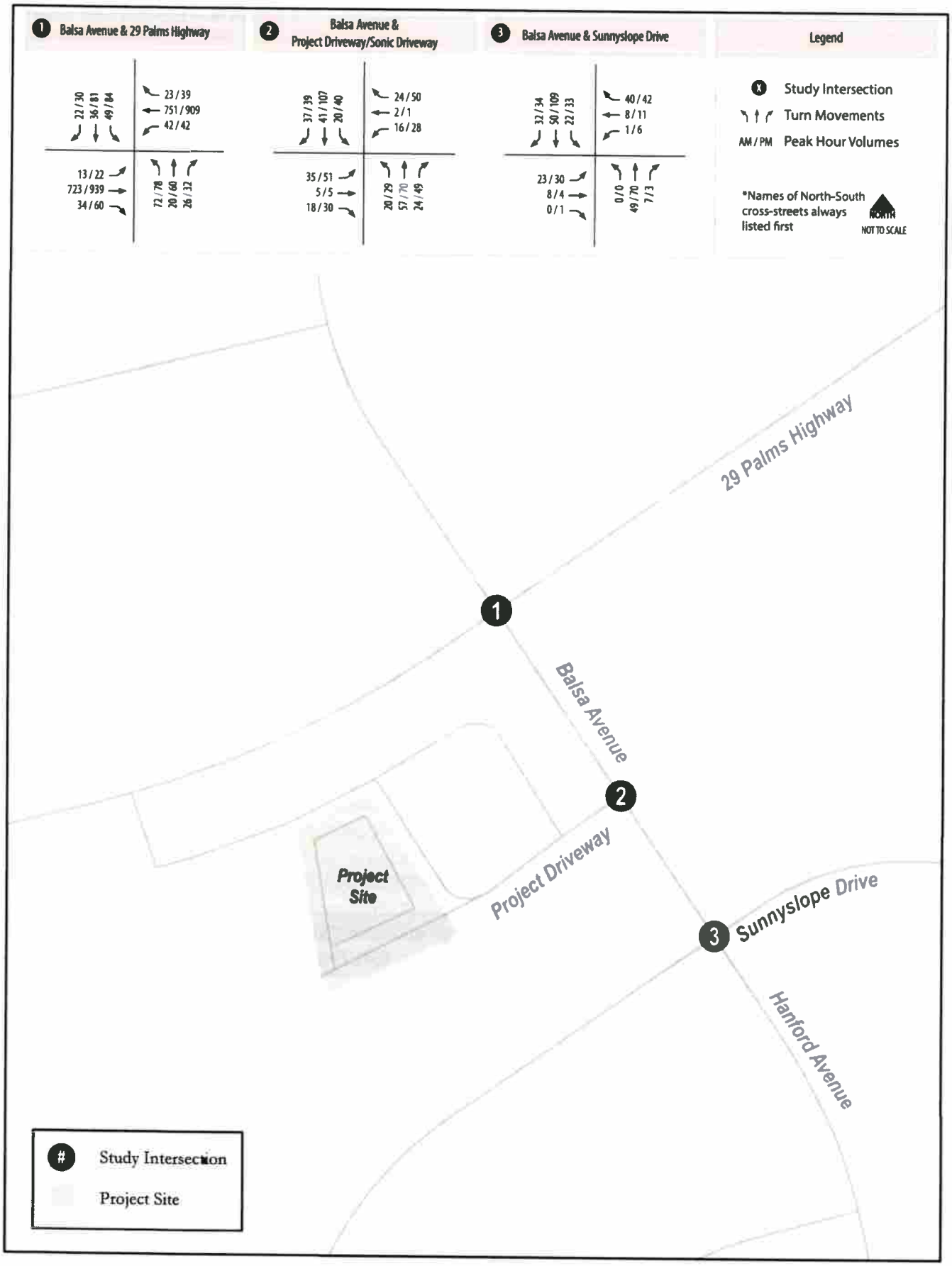
Notes:
TWSC = Two-Way Stop Controlled. For TWSC intersections, the delay shown is the worst delay experienced by any of the movements.

As shown in Table 5.2, all study intersections currently operate at an acceptable LOS under Opening Year 2027 Cumulative conditions.

Opening Year 2027 Cumulative with Project Roadway Network and Traffic Volumes

Intersection geometrics under the Opening Year 2027 Cumulative with Project conditions were assumed to be identical to the Opening Year 2027 Cumulative conditions geometrics.

Peak hour intersection volumes for the Opening Year 2027 Cumulative with Project conditions were derived by combining the Project trips (as previously shown in Figure 3.2) to the Opening Year 2027 Cumulative traffic volumes (as previously shown in Figure 5.4). Peak hour intersection volumes for this scenario are displayed in Figure 5.5.



Dutch Bros Coffee Project
Local Transportation Assessment

Figure 5.5
Traffic Volumes
Opening Year 2027 Cumulative with Project Conditions

Opening Year 2027 Cumulative with Project Traffic Conditions

LOS analyses under Opening Year 2027 Cumulative with Project conditions were conducted using the methodologies described in Chapter 2. Intersection analysis results are discussed below.

5.5.1 Intersection Analysis

Table 5.3 displays intersection LOS and average vehicle delay results for the study intersections under Opening Year 2027 Cumulative with Project conditions. LOS calculation worksheets for Opening Year 2027 Cumulative with Project conditions are provided in Appendix G.

As shown in Table 5.3, all the study intersections would continue to operate at an acceptable LOS during both the AM and PM peak hours under Opening Year 2027 Cumulative with Project conditions.

Determination of the Need for Off-Site Improvements

This section identifies the recommended off-site improvements under Opening Year 2027 Cumulative with Project conditions, consistent with the San Bernardino County TIS Guidelines.

Intersection Improvements

Based on the San Bernardino County TIS Guidelines and the analysis presented in this report, the addition of Project traffic would not trigger improvements at any of the study intersections. Therefore, no intersection improvements are required or recommended.

Table 5.3 - Peak Hour Intersection LOS Results – Opening Year 2027 Cumulative with Project Conditions

#	Intersection	Control Type	AM Peak Hour		PM Peak Hour		Delay w/o Project (AM / PM)	LOS w/o Project (AM / PM)	Δ in Delay (AM / PM)	I?
			Avg. Delay (sec.)	LOS	Avg. Delay (sec.)	LOS				
1	Balsa Avenue & 29 Palms Highway	Signal	20.0	C	23.1	C	19.1 / 22.8	C / C	0.9 / 0.3	N
2	Balsa Avenue & Project Driveway/Sonic Driveway	TWSC	10.8	B	12.6	B	10.1 / 12.1	B / B	0.7 / 0.5	N
3	Balsa Avenue & Sunnyslope Drive	TWSC	10.5	B	12.0	B	10.2 / 11.8	B / B	0.3 / 0.2	N

Source: CR Associates (2026)

Notes:
TWSC = Two-Way Stop Controlled. For TWSC intersections, the delay shown is the worst delay experienced by any of the movements.
I? = Improvement Required?

6.0 Site Access & Circulation

This chapter addresses access to the project site and discusses the functionality of the P internal circulation.

Driveway Access

Project site access will be provided via the existing driveways along 29 Palms Highway and Balsa Avenue. A brief description of each driveway is provided below:

The driveway situated on 29 Palms Highway is located approximately 500 feet west of Balsa Avenue and provides 3/4 access (left-out restricted). This driveway serves as one of the two access points to the retail land uses adjacent to the proposed Project, such as Big 5 Sporting Goods and Walgreens. The intersection analysis focused on access points that provided full access movements to vehicles. Therefore, this intersection was not a part of the analysis; however, the intersection is expected to operate at an acceptable LOS due to the existing left-out restricted access.

The driveway situated on Balsa Avenue is located approximately 225 feet south of 29 Palms Highway and provides full-movement access. This driveway serves as one of the two access points to the retail land uses adjacent to the proposed Project. This driveway was included as part of the intersection analysis and is projected to operate at an acceptable LOS under all analysis scenarios.

Internal Circulation

The Project site allows for two-way traffic circulation, providing connections between the parking areas, the drive-through component of the Project, and the internal roadways that link the site to adjacent land uses.

Access to the drive-through is provided on the south side of the Project site and can be reached via the internal roadways from both the southern and northern portions of the site. The drive-through exit is located on the north side of the Project site and connects to the northern internal roadway.

7.0 Drive-Through Queuing Analysis

This chapter addresses the adequacy of the proposed drive-through lane for the Project.

Proposed Drive-Through Capacity

The Project drive-through operations would include the construction of two entrance drive-through lanes that continue to the dual order boards, and then merges to one lane prior to the pay and pick-up windows. The drive-through queue storage length from the drive-through entrance to the pick-up window is approximately 520 feet. Assuming 22-feet per vehicle, the proposed drive-through lane capacity is approximately 23 vehicles.

Drive-Through Data Collection

Drive-through queuing data collection was conducted at the following three (3) existing Dutch Bros coffee shop locations, which are comparable to the proposed location in that the existing locations have dual-drive-through lanes and have limited to no indoor seating:

44175 Jefferson Street, La Quinta, CA 92253
34051 Date Palm Drive, Cathedral City, CA 92234
81-776 Highway 111, Indio, CA 92201

Data collection occurred on one typical weekday and one typical weekend day at each location. Observations were conducted during the morning (6:00 9:00 AM) and afternoon (2:00 5:00 PM) peak periods, which are representative of the highest customer demand. Queuing data was recorded at 5-minute intervals to capture fluctuations in drive-through demand and to document queue dynamics throughout each period. Table 7.1 notes the peak queue, as well as the average and 85th percentile queue, for the peak 15-minute interval during the AM and PM peak operation conditions for both weekday and weekend. Data collection worksheets are provided in Appendix H.

Table 7.1 - Drive Through Queuing Analysis Results

		TOD	Avg. Queue	85th Percentile	Peak Queue	TOD	Avg. Queue	85th Percentile	Peak Queue
44175 Jefferson Stree, La Quinta, CA	AM	8:15	20	22	23	8:15	15	17	17
	PM	3:15	13	15	15	4:30	13	13	13
34051 Date Palm Dr, Cathedral City, CA	AM	8:30	16	18	18	9:00	3	9	9
	PM	2:00	14	16	16	2:15	18	20	20
81-776 Highway 111, Indio, CA	AM	8:15	15	16	16	7:45	9	10	10
	PM	4:45	9	10	10	4:45	11	12	12

Source: CR Associates (2026)

Notes:
TOD = Time of Day

As shown in Table 7.1, the peak observed queue was 23 vehicles between 8:15-8:30 AM during the AM peak period on a typical weekday at the existing La Quinta location. As noted previously, the proposed drive-through queuing capacity for the Project would be 23 vehicles. Therefore, the proposed drive-through capacity would accommodate the anticipated peak drive-through demand. It should be noted that if the drive-through queue were to spill out of the drive-through lane, the queue would be able to be accommodated by internal drive aisles and is not expected to spill out into the public right-of-way.

Appendix A - Project Traffic Scoping Memorandum

TO: Jared Jerome, Town of Yucca Valley

FROM: Trevor Briggs, PE; CR Associates

DATE: November 21, 2025

RE: Traffic Scoping Memorandum – Dutch Bros Coffee Project – Town of Yucca Valley

The purpose of this Traffic Scoping Memorandum is to document the trip-generating characteristics, analysis assumptions, and vehicle miles traveled (VMT) screening criteria for the proposed Dutch Bros Coffee project (the "Project") in the Town of Yucca Valley, California. The Town of Yucca Valley does not have traffic analysis guidelines; therefore, the traffic analysis assumptions and VMT screening criteria for the Project will be based on the San Bernardino County *Transportation Impact Study Guidelines* (TIA Guidelines; July 9, 2019).

Project Description

The Project (APN 060141605) is located near the southwest corner of the intersection of 29 Palms Highway (SR-62) and Balsa Avenue, in the Town of Yucca Valley, California. The Project seeks approval to construct a 1,025 square foot (SF) Dutch Bros coffee shop building, with dual drive-through lanes and 18 parking spaces, on existing vacant land.

Access to the proposed Project would be provided via one existing full-movement driveway on Balsa Avenue (near Walgreens drug store) and one existing left-out restricted driveway on 29 Palms Highway (near Big 5 Sporting Goods store). Based on discussions with Town staff, the traffic analysis will focus on all Project traffic entering and exiting via the full-movement driveway on Balsa Avenue as a worst-case scenario due to the higher number of turning movement conflicts (left turns out of the driveway) at the Balsa Avenue driveway, compared to the 29 Palms Highway driveway.

Figure 1 displays the Project's regional location. **Figure 2** displays the Project site plan.

Project Trip Generation

The trip generation estimates for the Project were developed using average trip rates and pass-by reduction factors from the Institute of Transportation Engineers (ITE) *Trip Generation Manual* (11th Edition, September 2021; see ***Attachment 1***). **Table 1** displays the Project's trip generation estimates for a typical weekday.

Table 1 - Project Trip Generation

Land Use	Units	Trip Rate	ADT	AM Peak Hour				PM Peak Hour			
				Trips	Split (%)	In	Out	Trips	Split (%)	In	Out
Coffee Shop with Drive-Through Window and No Indoor Seating (938)	2 Drive-Through Lanes	179 / Drive-Through Lane	358	89	50:50	44	45	30	50:50	15	15
Pass-By Reductions		*90%*	*-323*	*-81*	–	*-40*	*-41*	*28*	–	*-14*	*-14*
Total Net			**35**	**8**	–	**4**	**4**	**2**	–	**1**	**1**

Source: ITE Trip Generation Manual 11th Edition, CR Associates (2025).

Yucca Valley Dutch Bros Project
Traffic Scoping Memorandum

Figure 1
Project Regional Location

PRELIMINARY SITE AND UTILITY PLAN

SWQ 29 PALMS HWY & BALSA AVE

YUCCA VALLEY, CA

23690

1 OF 2

As shown in Table 1, the Project is expected to generate approximately 358 daily trips, including 89 (44-in/45-out) AM peak hour trips and 30 (15-in/15-out) PM peak hour trips. It should be noted that after applying a pass-by (existing trips on the main roadway system) reduction factor, the project would generate 35 net new daily trips, with 8 net new trips in the AM peak hour and 2 net new trips in the PM peak hour on the existing adjacent roadway network. As a conservative approach, pass-by reductions were not applied to the traffic analysis

Project Trip Distribution

The project trip distribution was developed based on a review of existing travel patterns within the project vicinity. **Figure 3** displays the project trip distribution and intersection movement trip distribution.

Project Trip Assignment

Based upon AM/PM peak hour project trip generation and the project trip distribution, project trips were assigned to the adjacent roadway network and study area intersections. **Figure 4** displays the daily project trip assignment and intersection peak hour trip assignment.

Study Area

Based on criteria outlined in the County TIA Guidelines, the following study intersections were selected for analysis and are shown on **Figure 5**:

Intersections

1. Balsa Avenue & 29 Palms Highway (Signalized)
2. Balsa Avenue & Project Driveway/Sonic Driveway (SSSC)
3. Balsa Avenue & Sunnyslope Drive (SSSC)

Note:
SSSC = Side-Street Stop-Controlled

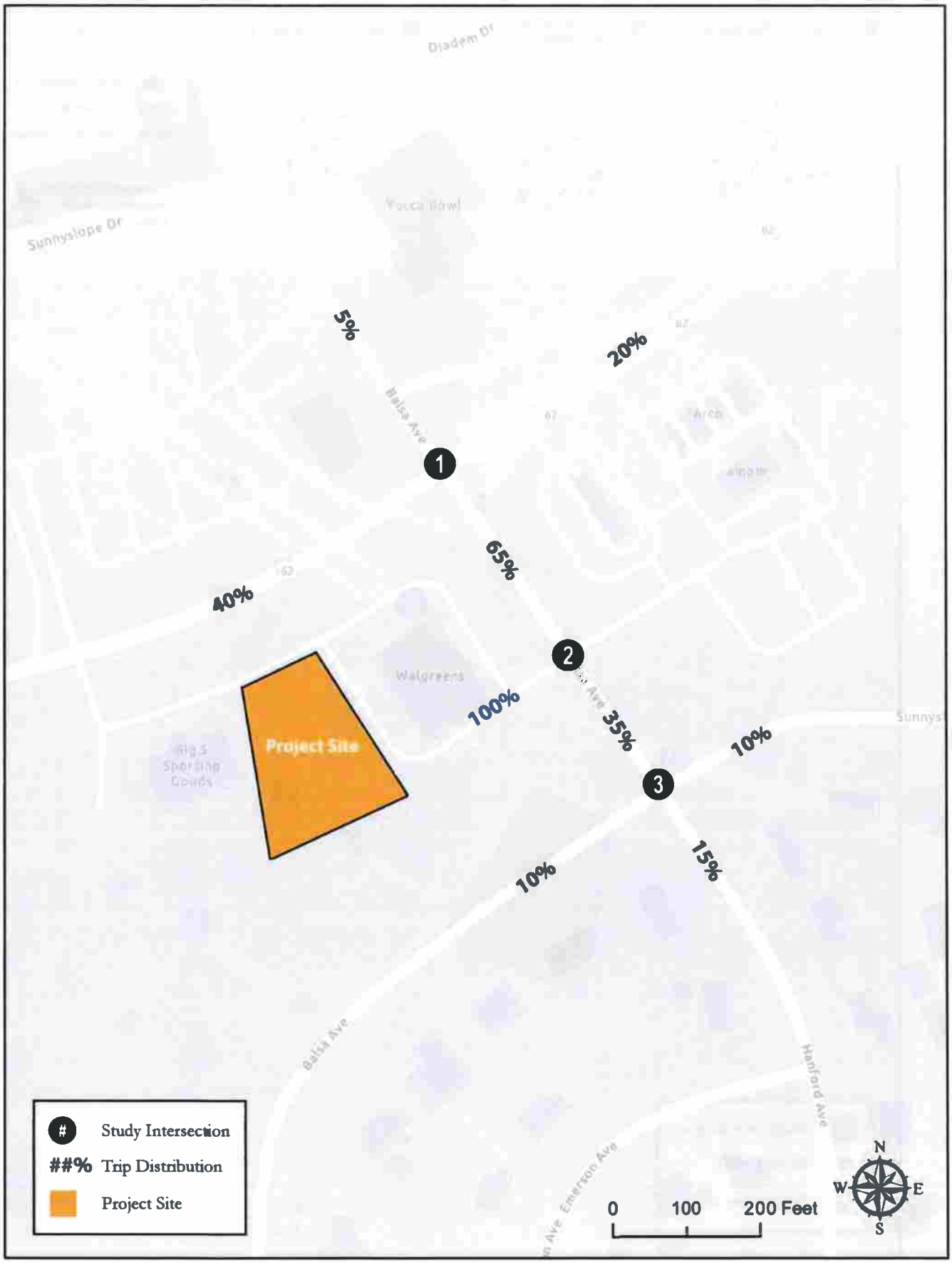
Study Scenarios

The traffic study will provide Level of Service (LOS) analysis for the following scenarios to determine the Project's potential effects on the surrounding transportation network:

- Existing Conditions
- Opening Year Cumulative (Existing + Ambient Growth + Cumulative Projects)
- Opening Year Cumulative Plus Project

Volume Development

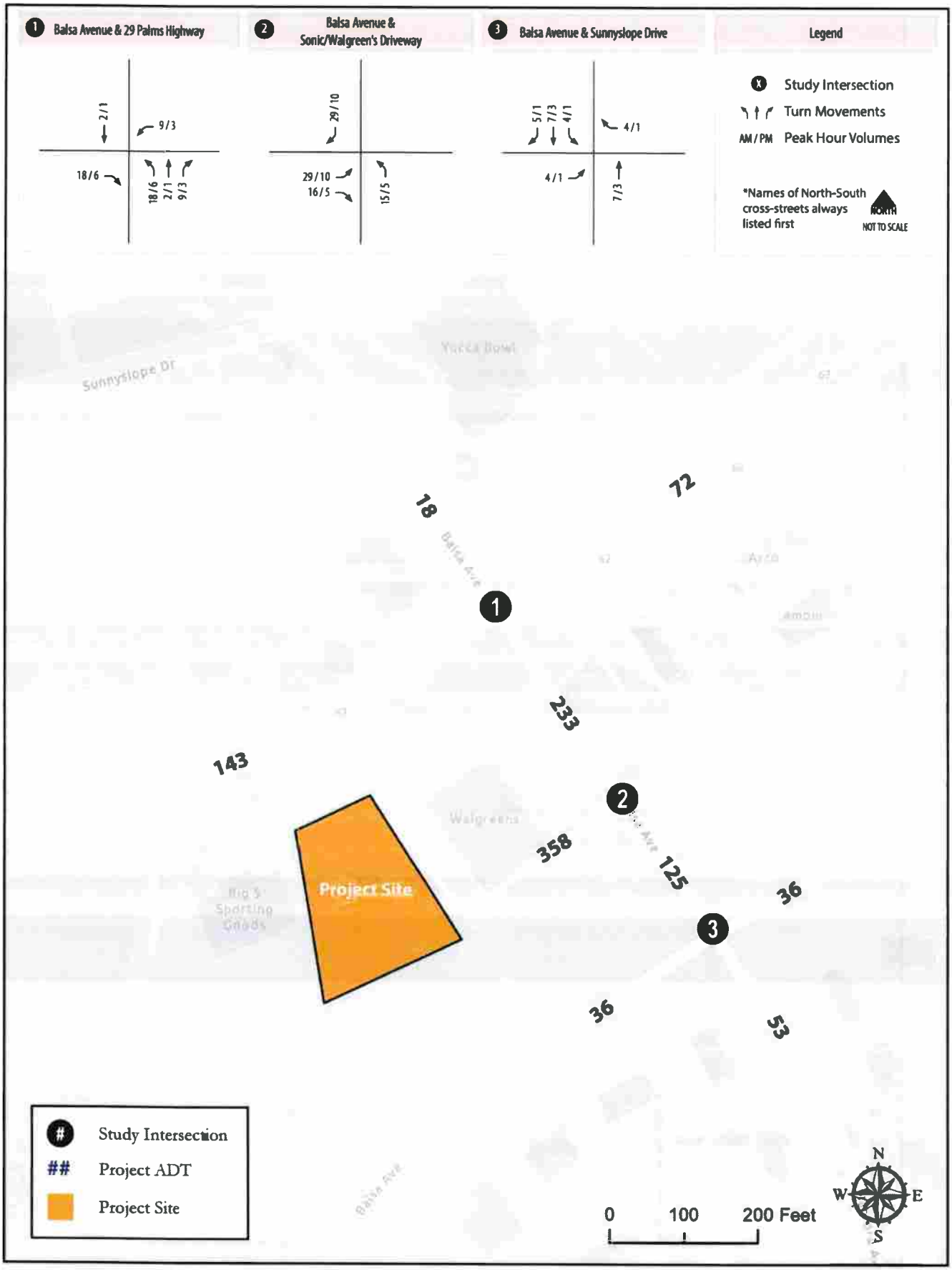
For Opening Year conditions, an annual ambient growth rate of 3% per year will be applied to existing volumes to develop Opening Year Base traffic volumes. Also, traffic volumes from Cumulative Projects will be added to Opening Year Base traffic volumes to develop Opening Year Cumulative traffic volumes. Town staff will provide a list of Cumulative Projects to include in the traffic analysis.



Yucca Valley Dutch Bros Project
Traffic Scoping Memorandum

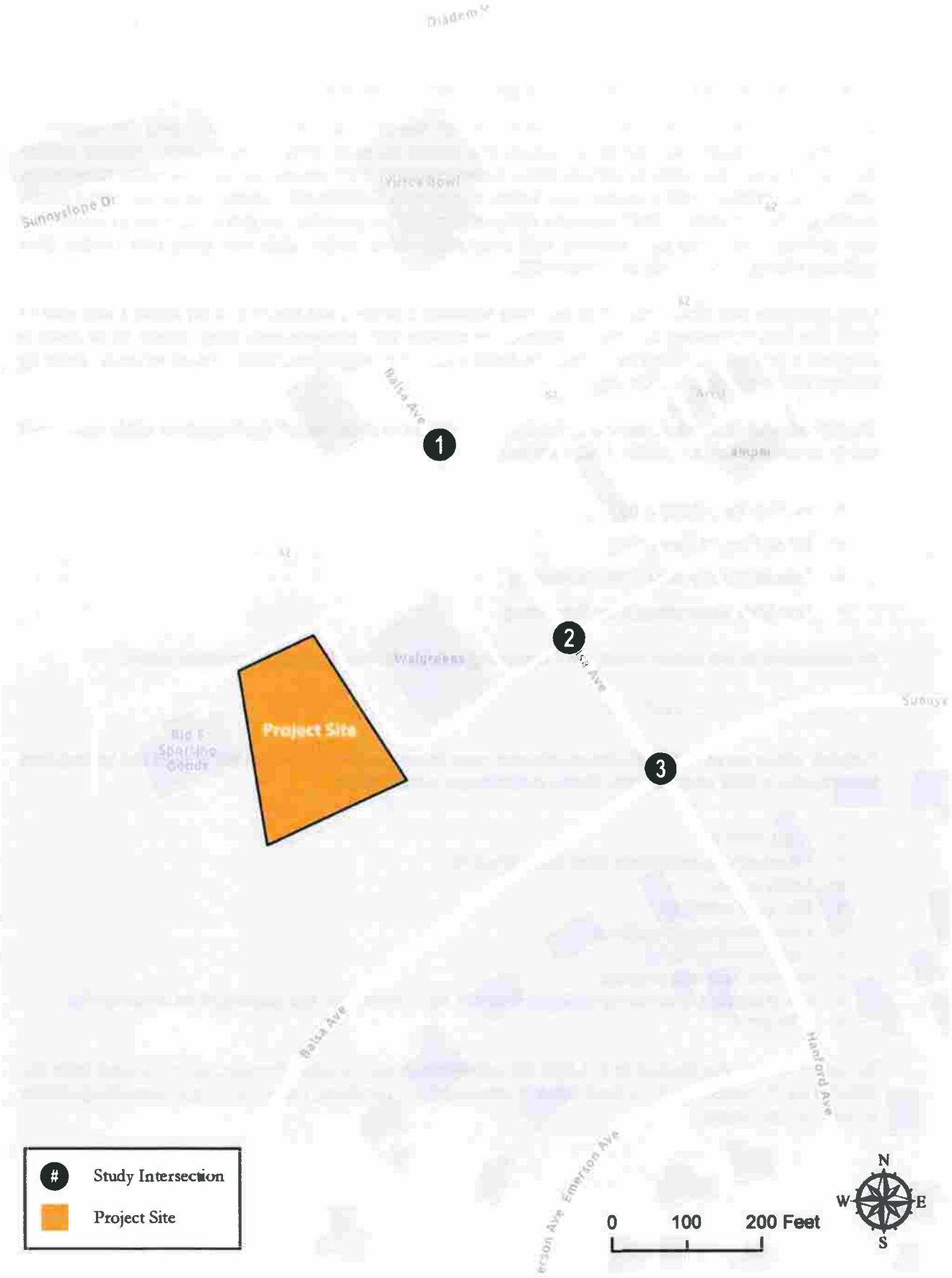
C R

Figure 3
Project Trip Distribution



Yucca Valley Dutch Bros Project
Traffic Scoping Memorandum

Figure 4
Project Trip Assignment



Yucca Valley Dutch Bros Project
Traffic Scoping Memorandum

Figure 5
Project Study Area

Vehicle Miles Traveled (VMT) Screening

As of July 1, 2020, with the implementation of Senate Bill 743 (SB 743) and for California Environmental Quality Act (CEQA) purposes, the metric for evaluating transportation impacts shifted from Level of Service (LOS) to Vehicle Miles Traveled (VMT). VMT measures the total miles traveled by vehicles associated with a project and better aligns with California's climate, air quality, and public health goals. The shift to VMT supports policies that reduce greenhouse gas emissions, provide land use guidance for local jurisdictions, and encourage more sustainable transportation modes (like walking, biking, and transit) to reduce VMT.

Lead agencies are now required to evaluate whether a project will result in a significant increase in VMT. The San Bernadino County TIA Guidelines provide VMT analysis screening criteria to determine whether a project would be presumed to have a less-than-significant VMT impact without requiring further VMT analysis or modeling.

The following applicable screening criteria were analyzed to determine if the Project would be screened out from conducting a detailed VMT analysis:

- Project Type Screening
- Small Project Screening
- Transit Priority Area (TPA) Screening
- Low VMT Generating Area Screening

An evaluation of the above noted VMT screening criteria for the Project is provided below.

Project Type Screening

Projects which serve the local community and have the potential to reduce VMT should not be required to complete a VMT assessment. These projects are noted below:

- K-12 schools
- Local-serving retail less than 50,000 sq. ft.
- Local parks
- Day care centers
- Local serving gas stations
- Local serving banks
- Student housing projects
- Local serving community colleges that are consistent with the assumptions noted in the
- RTP/SCS

As noted above, the Project is a 1,025 SF coffee shop with a drive-through, which is less than the 50,000 sq. ft. threshold for a local serving retail space. Therefore, the Project Type screening criteria is met for the Project.

Small Project Screening

Based on the County TIA Guidelines, projects that generate less than 110 daily vehicle trips can be presumed to cause a less-than-significant impact and would not require a detailed VMT analysis. As noted previously on Table 1, the proposed Project is expected to generate more than 110 daily vehicle trips. Therefore, the Small Project screening criteria is not met for this Project.

Transit Priority Area Screening

Projects located within a Transit Priority Area (TPA) as determined by the most recent SCAG RTP/SCS can be presumed to cause a less-than-significant impact and would not require a detailed VMT analysis. Based on the SBCTA VMT Screening Tool (see **Attachment B**), the proposed Project is not located within a TPA. Therefore, the Transit Priority Area screening criteria is not met for this Project.

Low VMT Generating Area Screening

Based on the County TIA Guidelines, projects that are located in a low VMT generating area (4% below the County average VMT) can be presumed to have a less-than-significant impact and would not require further VMT analysis. Based on the SBCTA VMT Screening Tool (see Attachment B), the County average VMT per worker is 16.9. The VMT per worker in the Project's TAZ is 12.3, which is 27.2% lower than the County's average. Therefore, the Low VMT Generating Area screening criteria is met for this Project.

VMT Screening Findings and Conclusions

Based on review of the VMT screening criteria noted above, the Project meets the Project Type and Low VMT Generating Area screening criteria. Therefore, the Project would be presumed to have a less-than-significant VMT impact and no further VMT analysis is required for the Project.

Drive-Through Queuing Analysis Methodology

Drive-through queuing data collection will be collected at the following three existing Dutch Bros Coffee locations, which are comparable to the proposed location in that the existing locations have dual-drive-through lanes and have limited to no indoor seating:

- 44175 Jefferson Street, La Quinta, CA 92253
- 34051 Date Palm Drive, Cathedral City, CA 92234
- 81-776 Highway 111, Indio, CA 92201

Data collection will occur on one typical weekday and one typical weekend day at each location. Observations will be conducted during the morning (6:00–9:00 AM) and afternoon (2:00–5:00 PM) peak periods, which are representative of the highest customer demand. Queuing data will be recorded at 5-minute intervals to capture fluctuations in drive-through demand and to document queue dynamics throughout each period. Observers will record the maximum queue lengths observed during each interval.

The collected data will be used to determine the average, 85th-percentile, and maximum queue length for each location and each period to determine whether the proposed on-site queue storage is sufficient to accommodate observed peak demand. Findings will be summarized for each location, with supporting recommendations for operational or geometric improvements, if needed, to mitigate queuing or circulation issues.

Summary of Findings

The proposed Dutch Bros Coffee project is expected to generate approximately 358 daily trips, including 89 (44-in/45-out) AM peak hour trips and 30 (15-in/15-out) PM peak hour trips. As requested by Town staff, an intersection Level of Service (LOS) analysis will be conducted for the proposed Project.

Based on review of the VMT screening criteria in the County TIA Guidelines, the Project meets the Project Type and Low VMT Generating Area screening criteria. Therefore, the Project would be presumed to have a less-than-significant VMT impact and no further VMT analysis is required for the Project.

A drive-through queuing analysis will be conducted for the Project to determine whether the proposed on-site queue storage is sufficient to accommodate observed peak demand. Drive-through queuing data collection will conducted at three existing Dutch Bros Coffee locations.

Attachment A - Trip Rates and Pass-By Reduction Factors from the ITE Trip Generation Manual (11th Edition)

This land use includes any coffee and donut restaurant that has only drive-through window service. A patron cannot walk into the shop and purchase items. The restaurant sells freshly brewed coffee (along with coffee-related accessories) and a variety of food/drink products such as donuts, bagels, breads, muffins, cakes, sandwiches, wraps, salads, and other hot and cold beverages. The restaurant marketing and sales may emphasize coffee beverages over food (or vice versa).

The coffee/donut shops contained in this land use typically hold long store hours (more than 15 hours) with an early morning opening.

Coffee/donut shop without drive-through window (Land Use 936) and coffee/donut shop with drive-through window (Land Use 937) are related uses.

The sites were surveyed in the 1990s, the 2000s, and the 2010s in Arizona, New Hampshire, Oregon, and Washington.

514, 644, 755, 981, 1028

Coffee/Donut Shop with Drive-Through Window and No Indoor Seating (938)

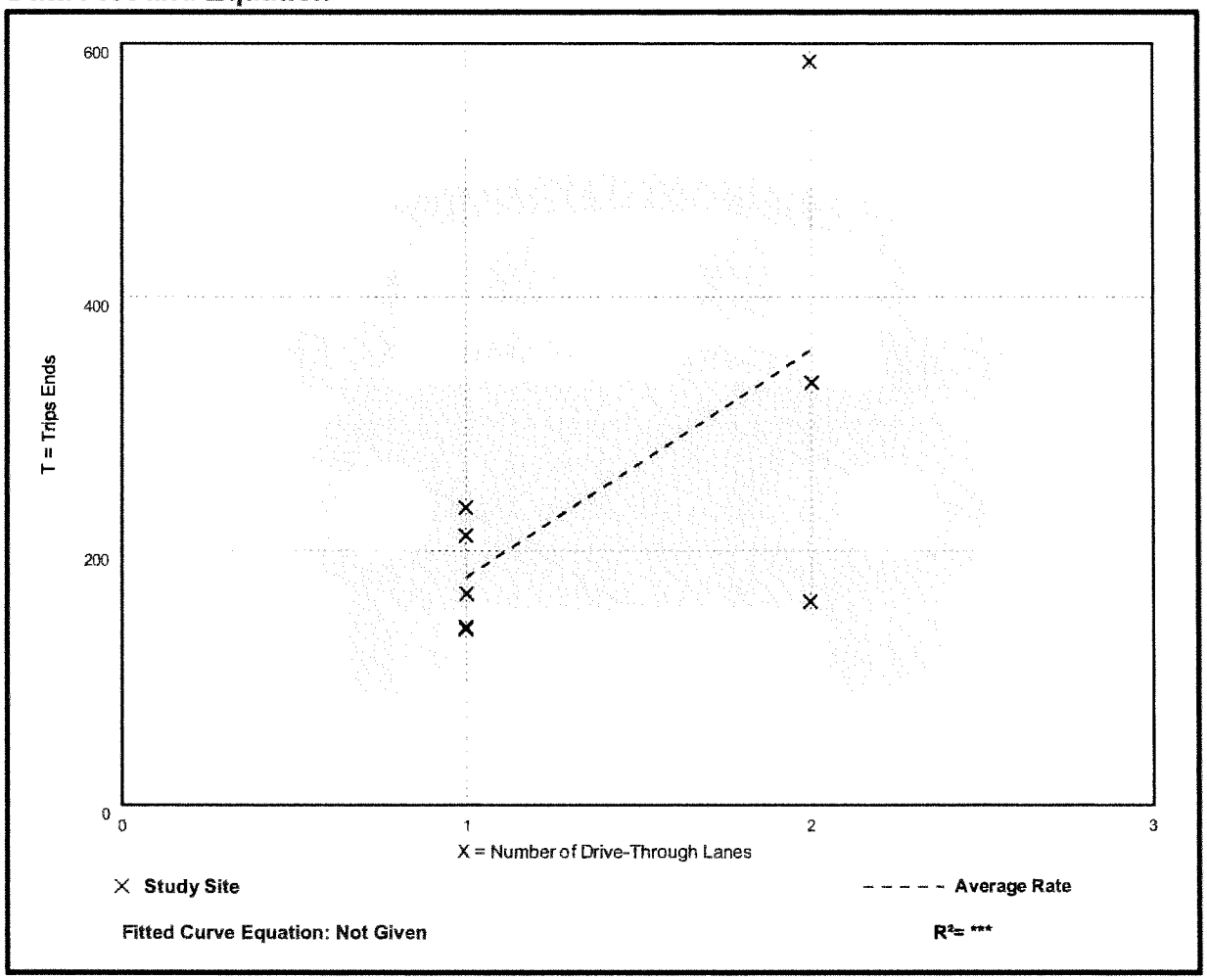
Vehicle Trip Ends vs: Drive-Through Lanes
On a: Weekday

Setting/Location: General Urban/Suburban
Number of Studies: 8
Avg. Num. of Drive-Through Lanes: 1
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Drive-Through Lane

Average Rate	Range of Rates	Standard Deviation
179.00	80.00 - 293.00	74.48

Data Plot and Equation



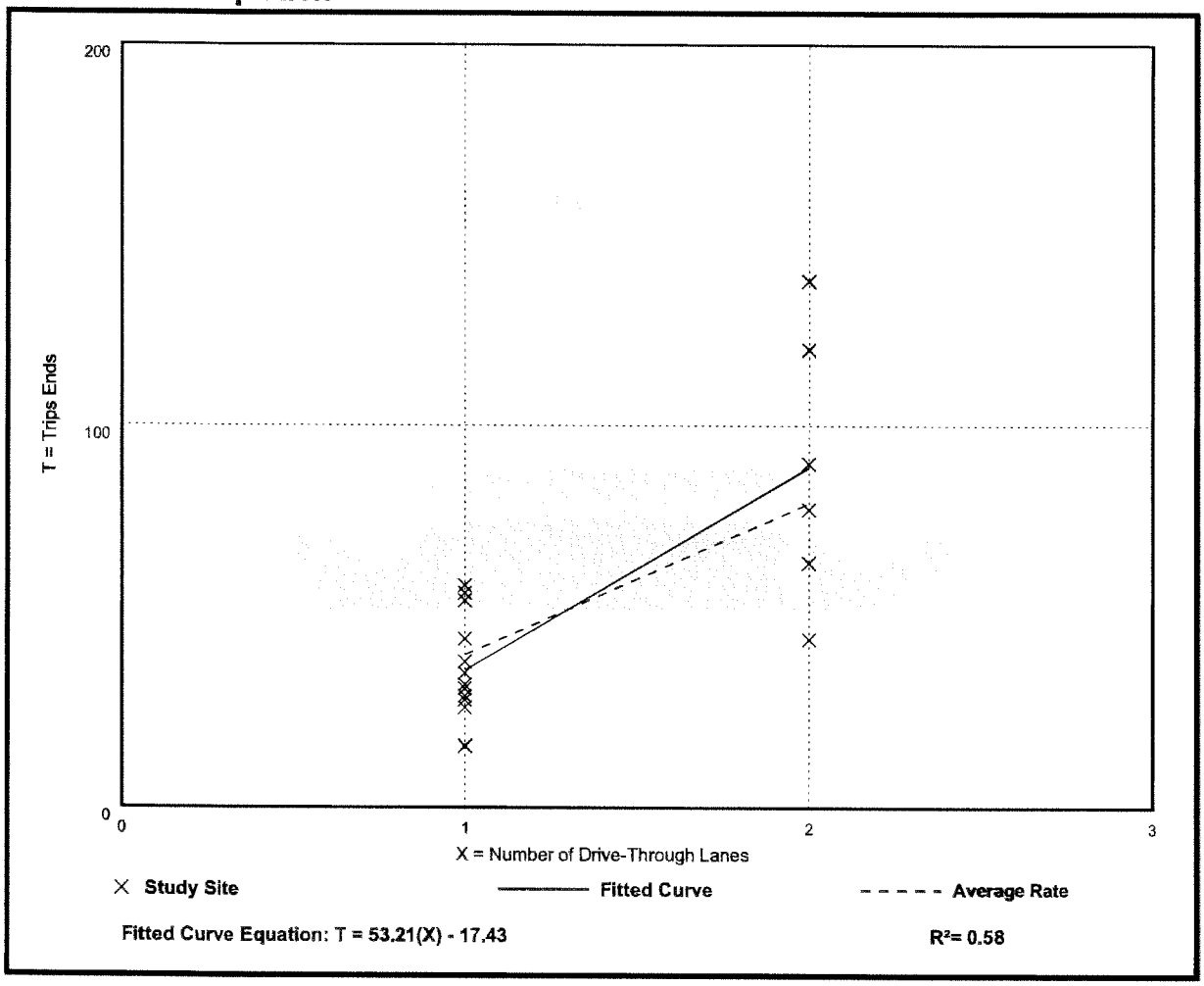
Coffee/Donut Shop with Drive-Through Window and No Indoor Seating (938)

Vehicle Trip Ends vs: Drive-Through Lanes
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: General Urban/Suburban
Number of Studies: 20
Avg. Num. of Drive-Through Lanes: 1
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Drive-Through Lane

Average Rate	Range of Rates	Standard Deviation
39.81	16.00 - 69.00	15.44

Data Plot and Equation



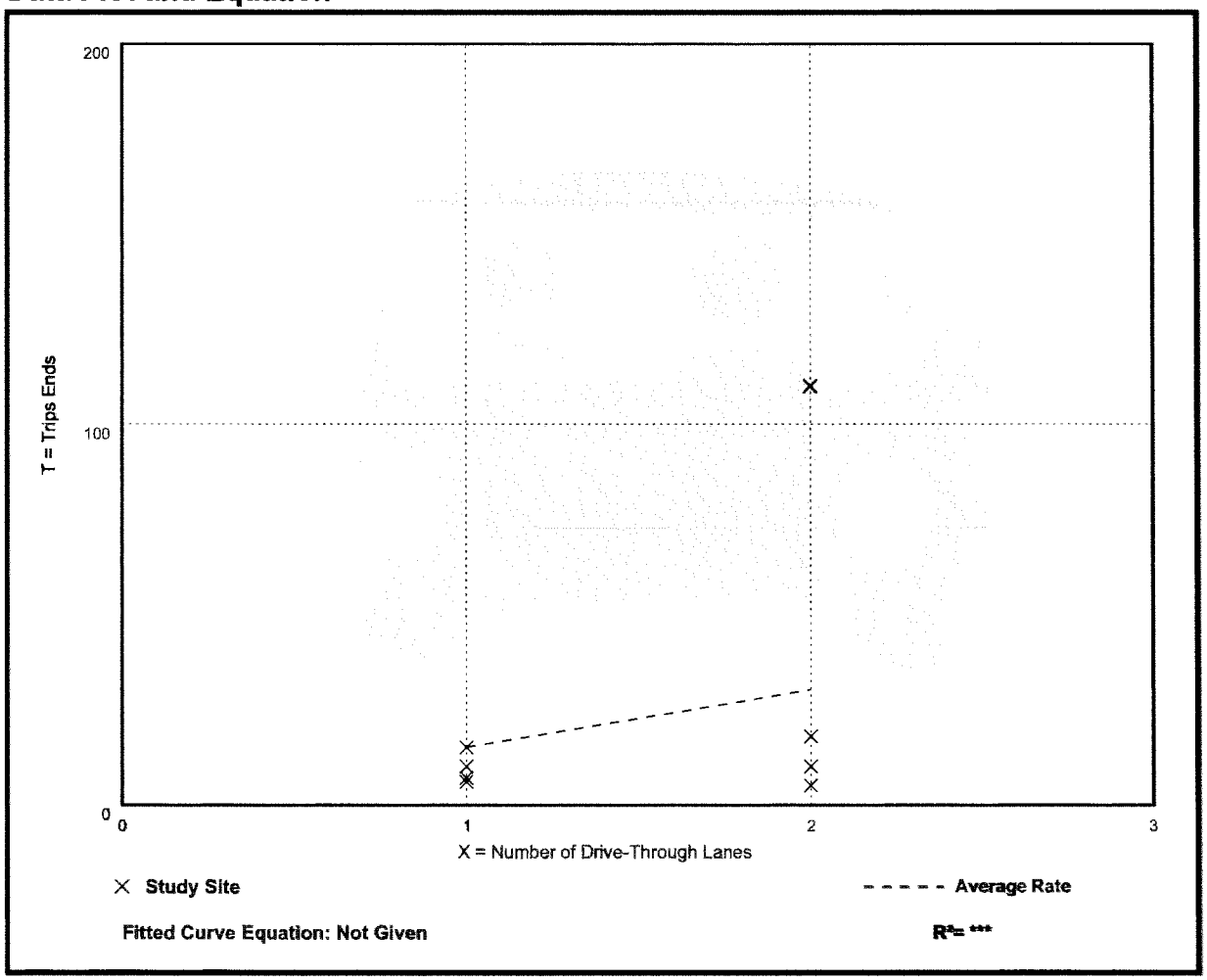
Coffee/Donut Shop with Drive-Through Window and No Indoor Seating (938)

Vehicle Trip Ends vs: Drive-Through Lanes
On a: Weekday,
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: General Urban/Suburban
Number of Studies: 8
Avg. Num. of Drive-Through Lanes: 2
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Drive-Through Lane

Average Rate	Range of Rates	Standard Deviation
15.08	2.50 - 55.00	19.41

Data Plot and Equation



Vehicle Pass-By Rates by Land Use

Source: ITE *Trip Generation Manual*, 11th Edition

Land Use Code	938
Land Use	Coffee/Donut Shop with Drive-Through Window and No Indoor Seating
Setting	General Urban/Suburban
Time Period	Weekday AM Peak Period
# Data Sites	3
Average Pass-By Rate	90%

Pass-By Characteristics for Individual Sites

Drive-Through Lanes	State or Province	Survey Year	# Interviews	Pass-By Trip (%)	Non-Pass-By Trips			Adj Street Peak Hour Volume	Source
					Primary (%)	Diverted (%)	Total (%)		
1	Washington	1997	—	83	—	—	17	—	18
1	Oregon	1998	—	95	—	—	5	—	18
1	Washington	1998	—	92	—	—	8	—	18

Vehicle Pass-By Rates by Land Use

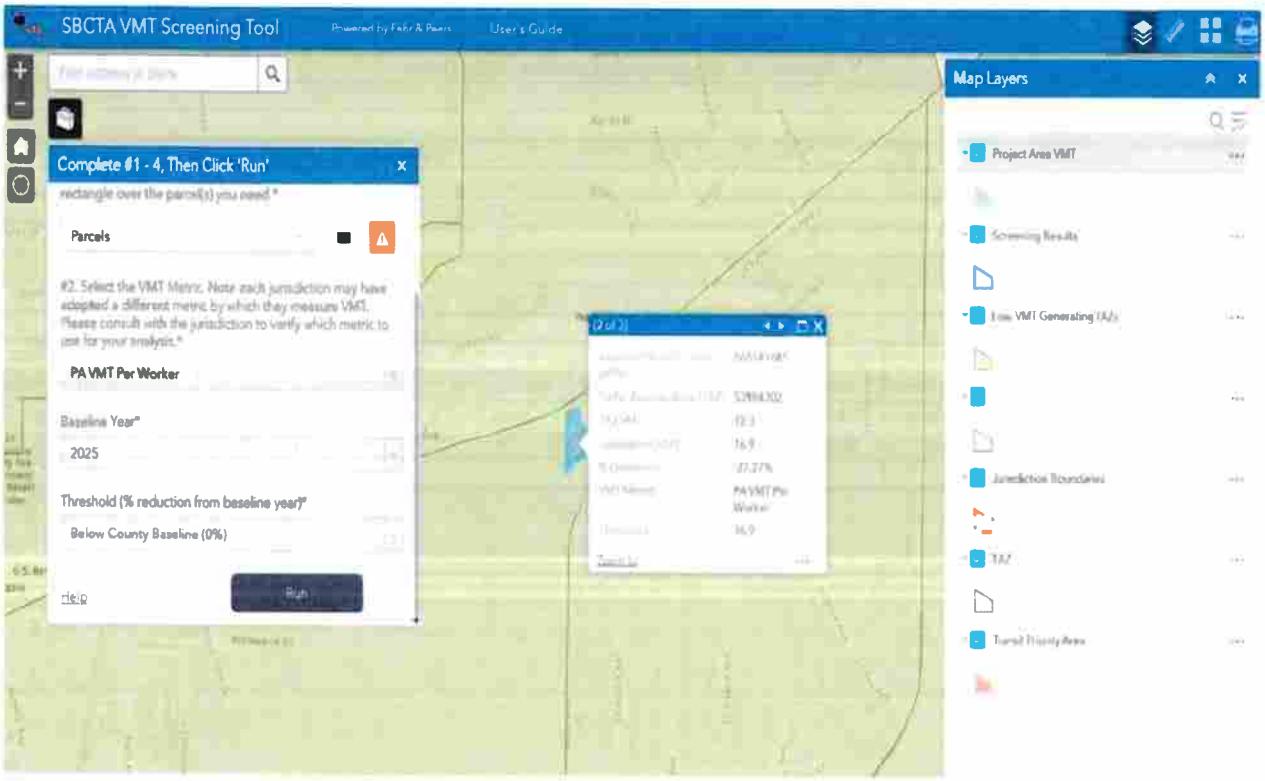
Source: ITE *Trip Generation Manual*, 11th Edition

Land Use Code	938
Land Use	Coffee/Donut Shop with Drive-Through Window and No Indoor Seating
Setting	General Urban/Suburban
Time Period	Weekday PM Peak Period
# Data Sites	2
Average Pass-By Rate	98%

Pass-By Characteristics for Individual Sites

Drive-Through Lanes	State or Province	Survey Year	# Interviews	Pass-By Trip (%)	Non-Pass-By Trips			Adj Street Peak Hour Volume	Source
					Primary (%)	Diverted (%)	Total (%)		
1	Washington	1997	—	100	—	—	0	—	18
1	Oregon	1998	—	95	—	—	5	—	18

Attachment B - SBCTA VMT Screening Tool



Appendix B - Signal Timing Sheets

Location: SR62 @ Balsa Ave
System:
Master At:
District: 08
I/C:
Designed By:
Installed By: Safwan Sayed
Service Info:

Timing Change:	Date Start:	Date End:	Designed:	Installed:
12/22/2022	11/24/1992			11/24/1992

		FLASH
PHASE	1) SR62 WB Left to Balsa SB	[R]
	2) SR62 EB	[R]
	3)	[ ]
	4) Balsa SB	[R]
	5) SR62 EB Left to Balsa NB	[R]
	6) SR62 WB	[R]
	7)	[ ]
	8) Balsa NB	[R]
OVERLAP	A)	[ ]
	B)	[ ]
	C)	[ ]
	D)	[ ]
	E)	[ ]
	F)	[ ]

Intersection Layout

Comments and Notes:
Build 002
Implement the LPI for the PED Phases
Add Dummy PED Phase 8 for LPI Purposes

RAM Checksum

Page 2: 1B0E	Page 8: 9D96
Page 3: EC04	Page 9: D2FD
Page 4: 2675	Page 10: E0F4
Page 5: 191A	Page 11: E559
Page 6: 191A	Page 12: D68F
Page 7: 4A14	Page 13: 86F7

Post Mile: Sbd-062-013.548-Balsa Ave

Printed: 6/9/2025

CONFIGURATION PHASE FLAGS

Cabinet
332
Configuration
CALTRANS

Phases (2-1-1-1)	
Permitted	1 2 . 4 5 6 . 8
Restricted	. . . . .

Phase Recalls (2-1-1-2)	
Vehicle Min	. 2 . . . 6 . .
Vehicle Max	. . . . .
Pedestrian	. . . . .
Bicycle	. . . . .

Phase Locks (2-1-1-3)	
Red	. . . . .
Yellow	. . . . .
Force/Max	. . . . .

Phase Features (2-1-1-4)	
Double Entry	. . . 4 . . . 8
Rest In Walk	. . . . .
Rest In Red	. . . . .
Walk 2	. . . . .
Max Green 2	. . . . .
Max Green 3	. . . . .

Startup (2-1-1-5)	
First Green Phases	. 2 . . . 6 . .
Yellow Start Phases	. . . . .
Vehicle Calls	1 2 . 4 5 6 . 8
Pedestrian Calls	. 2 . 4 . 6 . 8
Yellow Start Overlaps	. . . . .
Startup All-Red	6.0

Call To Phase (2-1-2-1)		Omit On Green	
1	. . . . .	1	. . . . .
2	. . . . .	2	. . . . .
3	. . . . .	3	. . . . .
4	. . . . .	4	. . . . .
5	. . . . .	5	. . . . .
6	. . . . .	6	. . . . .
7	. . . . .	7	. . . . .
8	. . . . .	8	. . . . .

Flashing Colors (2-1-2-2)	
Yellow Flash Phases	. . . . .
Yellow Flash Overlap	. . . . .
Flash In Red Phases	. . . . .
Flash In Red Overlaps	. . . . .

Special Operation (2-1-2-3)	
Single Exit Phase	. . . . .
Driveway Signal Phases	. . . . .
Driveway Signal Overlaps	. . . . .
Leading Ped Phases	. 2 . 4 . 6 . 8

Protected Permissive (2-1-2-4)	
Protected Permissive	. . . . .

Pedestrian (2-1-3)	
P1	. . . . .
P2	. 2 . . . . .
P3	. . . . .
P4	. . . 4 . . . .
P5	. . . . .
P6	. . . . . 6 . .
P7	. . . . .
P8	 8

Overlap (2-1-4)				
Overlap	Parent	Omit	No Start	Not
A	. . . . .	. . . . .	. . . . .	. . . . .
B	. . . . .	. . . . .	. . . . .	. . . . .
C	. . . . .	. . . . .	. . . . .	. . . . .
D	. . . . .	. . . . .	. . . . .	. . . . .
E	. . . . .	. . . . .	. . . . .	. . . . .
F	. . . . .	. . . . .	. . . . .	. . . . .

PHASE TIMING

Phase (2-2)	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-
--- Walk 1 ---	0	4	0	4	0	4	0	0
Flash Don't Walk	0	14	0	23	0	21	0	0
Minimum Green	10	10	0	10	10	10	0	10
Det Limit	0	0	0	0	0	0	0	0
Max Initial	0	0	0	0	0	0	0	0
Max Green 1	20	40	0	25	20	40	0	25
Max Green 2	0	0	0	0	0	0	0	0
Max Green 3	0	0	0	0	0	0	0	0
Extension	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0
Maximum Gap	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0
Minimum Gap	2.0	2.0	0.0	2.0	2.0	2.0	0.0	2.0
Add Per Vehicle	0.0	0.0	0.0	0.0	2.0	0.0	0.0	0.0
Reduce Gap By	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Reduce Every	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Yellow	3.7	5.0	3.0	4.1	3.7	5.0	3.0	4.1
All-Red	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Ped/Bike (2-3)	**-1-**	**-2-**	**-3-**	**-4-**	**-5-**	**-6-**	**-7-**	**-8-**
--- Walk 2 ---	0	0	0	0	0	0	0	0
Delay/Early Walk	0	3	0	3	0	3	0	3
Solid Don't Walk	0	0	0	0	0	0	0	0
Bike Green	0	0	0	0	0	0	0	0
Bike All-Red	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

OVERLAP TIMING

Overlap (2-4)	A	B	C	D	E	F
Green	0.0	0.0	0.0	0.0	0.0	0.0
Yellow	5.0	5.0	5.0	5.0	5.0	5.0
Red	0.0	0.0	0.0	0.0	0.0	0.0

Red Revert

Red Revert (2-5)	
Time	5.0
All-Red Sec/Min (2-6)	
All-Red Sec/Min:	OFF

Max 2 Extension

Max/Gap Out (2-7)	
Max Cnt	0
Gap Cnt	0

Local Plan 1...9 (7-1) TIMING DATA

COORDINATION

[Offsets] Green Factors or Press [F] to Select Force-Off

		Cycle	Multi	Lag Gap	A	B	C	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-
Plan 1	Green Factor	100		.....	82			10	43		30	10	43		30
Plan 2	Green Factor	110		1....6..	67			11	50		30	11	52		30
Plan 3	Green Factor	120		.....	4			13	60		30	13	60		30
Plan 4	Green Factor	120		.....	76			13	60		30	13	60		30
Plan 5	Green Factor			.....											
Plan 6	Green Factor			.....											
Plan 7	Green Factor			.....											
Plan 8	Green Factor			.....											
Plan 9	Green Factor	120		1....6..	33			13	58		30	13	60		30

Local Plan 1...9 (7-1) PHASE FLAGS

	Lag	Sync	Hold	Omit	Veh Min	Veh Max	Ped	Bike
Plan 1	.2.4.6.8	.2...6..	.....	.....	.....	.....	.....	.....
Plan 2	1..4.6.8	.2...6..	.....	.....	.....	.....	.....	.....
Plan 3	.2.4.6.8	.2...6..	.....	.....	.....	.....	.....	.....
Plan 4	.2.4.6.8	.2...6..	.....	.....	.....	.....	.....	.....
Plan 5	.....	.....	.....	.....	.....	.....	.....	.....
Plan 6	.....	.....	.....	.....	.....	.....	.....	.....
Plan 7	.....	.....	.....	.....	.....	.....	.....	.....
Plan 8	.....	.....	.....	.....	.....	.....	.....	.....
Plan 9	1..4.6.8	.2...6..	.....	.....	.....	.....	.....	.....

Master Timer Sync (7-A)	
Enable in Plans	
1-9	.....
11-19	.....
21-29	.....

Master Sub Master	
Input	
Output	

FREE PLAN PHASE FLAGS

(7-E) Free	
Lag	Omit
.2.4.6.8	.....
Veh Min	Veh Max
.2...6..	.....
Ped	Bike
.....	.....
Cond	Cond Grn
.....	10

MANUAL COMMANDS

Manual Plan (4-1)	
Plan	OffSet
	A

Plan: 1-9
15 or 254 = Flash
14 or 255 = Free
Offset A, B, or C

Special Function Override (4-2)			
#	Control	#	Control
1	NORMAL	3	NORMAL
2	NORMAL	4	NORMAL

Detector Reset	(4-3)
Local Manual (4-4)	OFF

Local Plan 11...19 (7-2) TIMING DATA COORDINATION

[Offsets] Green Factors or Press [F] to Select Force-Off

		Cycle	Multi	Lag Gap	A	B	C	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-
Plan 11	Green Factor			.....											
Plan 12	Green Factor			.....											
Plan 13	Green Factor			.....											
Plan 14	Green Factor			.....											
Plan 15	Green Factor			.....											
Plan 16	Green Factor			.....											
Plan 17	Green Factor			.....											
Plan 18	Green Factor			.....											
Plan 19	Green Factor			.....											

Local Plan 11...19 (7-2) PHASE FLAGS

	Lag	Sync	Hold	Omit	Veh Min	Veh Max	Ped	Bike
Plan 11	.....	.....	.....	.....	.....	.....	.....	.....
Plan 12	.....	.....	.....	.....	.....	.....	.....	.....
Plan 13	.....	.....	.....	.....	.....	.....	.....	.....
Plan 14	.....	.....	.....	.....	.....	.....	.....	.....
Plan 15	.....	.....	.....	.....	.....	.....	.....	.....
Plan 16	.....	.....	.....	.....	.....	.....	.....	.....
Plan 17	.....	.....	.....	.....	.....	.....	.....	.....
Plan 18	.....	.....	.....	.....	.....	.....	.....	.....
Plan 19	.....	.....	.....	.....	.....	.....	.....	.....

Local Plan 21...29 (7-3) TIMING DATA

COORDINATION

[Offsets] Green Factors or Press [F] to Select Force-Off

		Cycle	Multi	Lag Gap	A	B	C	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-
Plan 21	Green Factor			.....											
Plan 22	Green Factor			.....											
Plan 23	Green Factor			.....											
Plan 24	Green Factor			.....											
Plan 25	Green Factor			.....											
Plan 26	Green Factor			.....											
Plan 27	Green Factor			.....											
Plan 28	Green Factor			.....											
Plan 29	Green Factor			.....											

Local Plan 21...29 (7-3) PHASE FLAGS

	Lag	Sync	Hold	Omit	Veh Min	Veh Max	Ped	Bike
Plan 21	.....	.....	.....	.....	.....	.....	.....	.....
Plan 22	.....	.....	.....	.....	.....	.....	.....	.....
Plan 23	.....	.....	.....	.....	.....	.....	.....	.....
Plan 24	.....	.....	.....	.....	.....	.....	.....	.....
Plan 25	.....	.....	.....	.....	.....	.....	.....	.....
Plan 26	.....	.....	.....	.....	.....	.....	.....	.....
Plan 27	.....	.....	.....	.....	.....	.....	.....	.....
Plan 28	.....	.....	.....	.....	.....	.....	.....	.....
Plan 29	.....	.....	.....	.....	.....	.....	.....	.....

DETECTORS

Detector Attributes (5-1)				Slot	Detector Configuration (5-2)				
Det	Type	Phases	Lock		Det	Delay	Extend	Recall	Port
1	COUNT+CALL+EXTEND	1.....	NO	I1U	1			10	3.2
2	COUNT+CALL+EXTEND	1.....	NO	I1L	2			10	7.2
3	COUNT+CALL+EXTEND	.2.....	NO	I2U	3			10	1.1
4	COUNT+CALL+EXTEND	.2.....	NO	I2L	4			10	1.5
5	COUNT+CALL+EXTEND	.2.....	NO	I3U	5			10	4.5
6	CALL+EXTEND	.2.....	NO	I3L	6			10	6.2
7	COUNT+CALL+EXTEND	.2.....	NO	I4U	7			10	2.1
8	COUNT+CALL+EXTEND	.2.....	NO	I4L	8			10	7.4
9	COUNT+CALL+EXTEND	..3....	NO	I5U	9			10	3.4
10	COUNT+CALL+EXTEND	..3....	NO	I5L	10			10	7.6
11	COUNT+CALL+EXTEND	...4...	NO	I6U	11			10	1.3
12	COUNT+CALL+EXTEND	...4...	NO	I6L	12			10	1.7
13	COUNT+CALL+EXTEND	...4...	NO	I7U	13			10	4.7
14	CALL+EXTEND	...4...	NO	I7L	14			10	6.4
15	COUNT+CALL+EXTEND	...4...	NO	I8U	15			10	2.3
16	COUNT+CALL+EXTEND	...4...	NO	I8L	16			10	7.8
17	COUNT+CALL+EXTEND	1.....	NO	I9U	17			10	3.6
18	COUNT+CALL+EXTEND	8	NO	I9L	18			10	3.8
19	COUNT+CALL+EXTEND	.2.....	NO	I10U	19			10	4.1
20	COUNT+CALL+EXTEND	...4...	NO	I10L	20			10	4.2
21	COUNT+CALL+EXTEND	....5..	NO	J1U	21			10	3.1
22	COUNT+CALL+EXTEND	....5..	NO	J1L	22			10	7.1
23	COUNT+CALL+EXTEND	.....6.	NO	J2U	23			10	1.2
24	COUNT+CALL+EXTEND	.....6.	NO	J2L	24			10	1.6
25	COUNT+CALL+EXTEND	.....6.	NO	J3U	25			10	4.6
26	CALL+EXTEND	.....6.	NO	J3L	26			10	6.3
27	COUNT+CALL+EXTEND	.....6.	NO	J4U	27			10	2.2
28	COUNT+CALL+EXTEND	.....6.	NO	J4L	28			10	7.3
29	COUNT+CALL+EXTEND	......7.	NO	J5U	29			10	3.3
30	COUNT+CALL+EXTEND	......7.	NO	J5L	30			10	7.5
31	COUNT+CALL+EXTEND	8	NO	J6U	31			10	1.4
32	COUNT+CALL+EXTEND	8	NO	J6L	32			10	1.8
33	COUNT+CALL+EXTEND	8	NO	J7U	33			10	4.8
34	CALL+EXTEND	8	NO	J7L	34			10	6.5
35	COUNT+CALL+EXTEND	8	NO	J8U	35			10	2.4
36	COUNT+CALL+EXTEND	8	NO	J8L	36			10	7.7
37	COUNT+CALL+EXTEND	....5...	NO	J9U	37			10	3.5
38	COUNT+CALL+EXTEND	...4....	NO	J9L	38			10	3.7
39	COUNT+CALL+EXTEND	.....6..	NO	J10U	39			10	4.3
40	COUNT+CALL+EXTEND	8	NO	J10L	40			10	4.4
41	PEDESTRIAN	.2.....	NO	I12U	41			10	5.1
42	PEDESTRIAN	...4...8	NO	I12L	42			10	5.3
43	PEDESTRIAN	.....6..	NO	I13U	43			10	5.2
44	PEDESTRIAN	...4...8	NO	I13L	44			10	5.4

Failure Times(5-3)	Minutes
Maximum On Time	
Fail Reset Time	

Failure Override (5-4)	
Detectors 1-8	.....
Detectors 9-16	.....
Detectors17-24	.....
Detectors 25-32	.....
Detectors 33-40	.....
Detectors 41-44	.....

System Detector Assignment (5-5)

Sys Det	1	2	3	4	5	6	7	8
Det Num								
Sys Det	9	10	11	12	13	14	15	16
Det Num								

CIC Operation (5-6-1)	
Enable in Plans	.....

CIC Values (5-6-2)	Volume	Occupancy	Demand
Smoothing	0.66	0.66	0.66
Multiplier	4.0	0.33	
Exponent	0.50	1.00	

Detector-to-Phase Assignment (5-6-3)

Sys Det	1	2	3	4	5	6	7	8
Phase								
Sys Det	9	10	11	12	13	14	15	16
Phase								

Input File Port-Bit Assignments

332 Cabinet - For Reference Only

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
I-	3.2	1.1	4.5	2.1	3.4	1.3	4.7	2.3	3.6	4.1	6.6	5.1	5.2	6.7
	7.2	1.5	6.2	7.4	7.6	1.7	6.4	7.8	3.8	4.2	2.7	5.3	5.4	6.8
J-	3.1	1.2	4.6	2.2	3.3	1.4	4.8	2.4	3.5	4.3	2.8	5.5	5.6	2.5
	7.1	1.6	6.3	7.3	7.5	1.8	6.5	7.7	3.7	4.4	6.1	5.7	5.8	2.6

TOD SCHEDULE

Table 1 (8-2-1)		
Time	Plan	OS
0530	1	A
0800	2	A
1100	3	A
1600	4	A
1830	2	A
2000	255	A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A

Table 2 (8-2-2)		
Time	Plan	OS
0900	1	A
1830	255	A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A

Table 3 (8-2-3)		
Time	Plan	OS
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A

Table 4 (8-2-4)		
Time	Plan	OS
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A

Table 5 (8-2-5)		
Time	Plan	OS
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A

Table 6 (8-2-6)		
Time	Plan	OS
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A
		A

WEEKDAY ASSIGNMENT

Weekday Table Assignments (8-2-7)						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	1	1	1	1	2	2

HOLIDAY TABLES

Floating Holiday Table (8-2-8)

#	Mnth	Week	DOW	Table
1			.....	
2			.....	
3			.....	
4			.....	
5			.....	
6			.....	
7			.....	
8			.....	
9			.....	
10			.....	
11			.....	
12			.....	
13			.....	
14			.....	
15			.....	
16			.....	

Fixed Holiday Table (8-2-9)

#	Mnth	Day	DOW	Table
1			.....	
2			.....	
3			.....	
4			.....	
5			.....	
6			.....	
7			.....	
8			.....	
9			.....	
10			.....	
11			.....	
12			.....	
13			.....	
14			.....	
15			.....	
16			.....	

Solar Clock Data (8-4)

North Latitude	34
West Longitude	118
Local Time Zone	8

Sabbatical Clock (8-5)

Hebrew	Ped Recall
Sabbath	.....
Holiday	.....

Daylight Saving (8-6)

Enabled	YES

TOD FUNCTIONS

TOD Functions (8-3)

#	Start	End	DOW	Action	Phases
1			.....		.....
2			.....		.....
3			.....		.....
4			.....		.....
5			.....		.....
6			.....		.....
7			.....		.....
8			.....		.....
9			.....		.....
10			.....		.....
11			.....		.....
12			.....		.....
13			.....		.....
14			.....		.....
15			.....		.....
16			.....		.....

Action Codes:
0. None
1. Permitted
2. Restricted
4. Veh Min Recall
5. Veh Max Recall
6. Ped Recall
7. Bike Recall
8. Red Lock
9. Yellow Lock
10. Force/Max Lock
11.Double Entry
12. Y-Coord C
13. Y-Coord D
14. Free
15. Flashing
16. Walk 2
17. Max Green 2
18. Max Green 3
19. Rest in Walk
20. Rest in Red
21. Free Lag Phases
22. Special Functions
23. Truck Preempt
24. Conditional Service
25. Conditional Service
26. Leading Ped
27. Traffic Actuated Max 2
41. Protected Permissive
42. Protected Permissive

Action Code = Phases added to normal setting
100+Action Code = Phases removed
200+Action Code = Phases replaced

COMMUNICATIONS

C2 (6-1-1)	
Address	7
Protocol	AB3418
Access Level	0
Baud	1200
Parity	NONE
Data Bits	8
Stop Bits	1
RTS On Time	20
RTS Off Time	20
Handshaking	NORMAL

C20 (6-1-2)	
Address	
Protocol	AB3418
Access Level	0
Baud	1200
Parity	NONE
Data Bits	8
Stop Bits	1
RTS On Time	20
RTS Off Time	20
Handshaking	NORMAL

C21 (6-1-3)	
Address	
Protocol	AB3418
Access Level	0
Baud	1200
Parity	NONE
Data Bits	8
Stop Bits	1
RTS On Time	20
RTS Off Time	20
Handshaking	NORMAL

Access Levels:

0-Full Access
1-Status Only
2-Status, Set Pattern, Time
3-Status, Set Pattern, Time, Manual Plan
4-Reserved
5-Full Access with No Set Pattern
6-Full Access with No Set Time
7-Full Access with No Set Pattern, Manual Plan
8-Full Access with No Set Time, Pattern, Manual Plan

SOFT LOGIC

Soft Logic (6-2)

#	Data	OP	Data	OP	Data	OP	Data
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							

*Refer to User's Manual for Data and OP Codes

CALLBACK NUMBERS

Callback Numbers (6-3...3)	
Line Out	
Local Toll	
Long Distance	
Delay	10
Area Code	
Phone Number	

Line Out	
Local Toll	
Long Distance	
Delay	10
Area Code	
Phone Number	

Line Out	
Local Toll	
Long Distance	
Delay	10
Area Code	
Phone Number	

NETWORK

Network (6-4)	
Address	1
Protocol	AB3418
Port	27013
Type	STATIC
Central Access	6
Field Access	7

IP Address	192	.	168	.	0	.	113
Netmask	255	.	255	.	255	.	0
Broadcast	192	.	168	.	0	.	255
Gateway	192	.	168	.	0	.	1

RAILROAD PREEMPTION

RR 1

(3-1-1)	Timing	Phase Flags (3-1-2)			Pedestrian Flags (3-1-3)			Overlap Flags (3-1-4)		
Delay		Grn Hold	Yel Flash	Red Flash	Walk	Flash DW	Solid DW	Grn Hold	Yel Flash	Red Flash
Clear 1	10	. 2 . . 5 . . .	. . . . .	. . . . .	. . . . .	. . . . .	. 2 . 4 . 6 . 8	. . . . .	. . . . .	. . . . .
Clear 2		. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Clear 3		. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Hold		. . . . .	. . . . .	1 2 3 4 5 6 7 8	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	A B C D E F
Exit										
Min Grn										
Ped Clr										

Exit Parameters (3-1-5)			
Phase Green	Overlap Green	Vehicle Call	Ped Call
. . . . .	. . . . .	1 2 3 4 5 6 7 8	. 2 . 4 . 6 . 8

Configuration (3-1-6)			
Primary Port	Secondary Port	Latching	Power-Up
2.5	0.0	YES	FLASHING

RR 2

(3-2-1)	Timing	Phase Flags (3-2-2)			Pedestrian Flags (3-2-3)			Overlap Flags (3-2-4)		
Delay		Grn Hold	Yel Flash	Red Flash	Walk	Flash DW	Solid DW	Grn Hold	Yel Flash	Red Flash
Clear 1	10	. . . 4 . . 7 .	. . . . .	. . . . .	. . . . .	. . . . .	. 2 . 4 . 6 . 8	. . . . .	. . . . .	. . . . .
Clear 2		. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Clear 3		. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .	. . . . .
Hold		1 2 3 . . 6 . .	. . . . .	. . . . .	. 2 . . . 6 . .	. . . . .	. . . 4 . . . 8	. . . . .	. . . . .	. . . . .
Exit										
Min Grn										
Ped Clr										

Exit Parameters (3-2-5)			
Phase Green	Overlap Green	Vehicle Call	Ped Call
. . . . .	. . . . .	. . . 4 . . 7 .	. . . . .

Configuration (3-2-6)			
Primary Port	Secondary Port	Latching	Power-up
2.6	0.0	YES	DARK

EMERGENCY VEHICLE PREEMPTION

EVA (3-A)

Preempt Timers			Phase Green	Overlap Green
Delay	Clear	Max		
	10	45	. 2 . . 5 . . .	. . . . .

Port	Latching	Phase Termination
5.5	NO	ADVANCE

EVB (3-B)

Preempt Timers			Phase Green	Overlap Green
Delay	Clear	Max		
	10	45	. . . 4 . . 7 .	. . . . .

Port	Latching	Phase Termination
5.6	NO	ADVANCE

EVC (3-C)

Preempt Timers			Phase Green	Overlap Green
Delay	Clear	Max		
	10	45	1 . . . . 6 . .	. . . . .

Port	Latching	Phase Termination
5.7	NO	ADVANCE

EVD (3-D)

Preempt Timers			Phase Green	Overlap Green
Delay	Clear	Max		
	10	45	. . 3 8	. . . . .

Port	Latching	Phase Termination
5.8	NO	ADVANCE

INPUTS

		7 Wire I/C (2-1-5-1)			
		Input	Port	Input	Port
Enable	NO	R1	3.8	Free	3.6
Max ON		R2	3.5	D2	2.8
Max OFF		R3	3.7	D3	6.1

Manual Control (2-1-5-2)	
Input	Port
Manual Advance	
Advance Enable	

Battery Backup (2-1-5-5)	
Port	Operation
2.7	FLASHING

Cabinet Status (2-1-5-3)	
Input	Port
Flash Bus	
Door Ajar	
Flash Sense	6.7
Stop Time	6.8

Special Function (2-1-5-4)	
Input	Port
1	
2	
3	
4	

Y-Coordination (2-1-5-6)	
Port C	Port D
6.1	2.8

OUTPUTS

Loadswitch Assignments (2-1-6)							+
A	1	2	22	3	4	24	9
B	5	6	26	7	8	28	10
X	13	14	0	11	12	0	0

Loadswitch Codes:

0 Unused (no output)
1-8 Vehicle 1-8
9-14 Overlap A-F
21-28 Ped 1-8
41-47 Special Functions
41 Protected Permissive Flashing Phase 1
43 Protected Permissive Flashing Phase 3
45 Protected Permissive Flashing Phase 5
47 Protected Permissive Flashing Phase 7
51-57 Special Functions
71-72 Seven Wire I/C

\+ middle output of loadswitches 3 and 6 Channel 9 and 10

TRANSIT PRIORITY

Local Plans (3-E) 1...9 11...19		Early Green	Green Extend	Inhibit Cycles	Phase 1 Minimum	Phase 2 Minimum	Phase 3 Minimum	Phase 4 Minimum	Phase 5 Minimum	Phase 6 Minimum	Phase 7 Minimum	Phase 8 Minimum
Plan 1	Green Factor											
Plan 2	Green Factor											
Plan 3	Green Factor											
Plan 4	Green Factor											
Plan 5	Green Factor											
Plan 6	Green Factor											
Plan 7	Green Factor											
Plan 8	Green Factor											
Plan 9	Green Factor											
Plan 11	Green Factor											
Plan 12	Green Factor											
Plan 13	Green Factor											
Plan 14	Green Factor											
Plan 15	Green Factor											
Plan 16	Green Factor											
Plan 17	Green Factor											
Plan 18	Green Factor											
Plan 19	Green Factor											

Transit Priority Configuration (3-E-A)				Indicator Output	
Enable in Plans		Input	Type	Stop	Go
Plan 1-9	.....	0.0	OPT	0	0
Plan 11-19	.....	0.0	OPT	0	0

Queue Jump (3-E-B)	
Grn Hold	Hold Phase
	.....
	.....

Free Plans (3-E-E)	
Max Grn Hold	Hold Phase
	.....

Access Utilities (9-5)	
Password	***
Timeout	30

YELLOW YIELD COORDINATION

					Force-Offs											
Y-Coord Plans (7-C,D)	Long Grn	No Grn	Offset	Perm	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	Coord	Lag	Min Recall	Restricted
Plan C													.2...6..	.2.4.6.8	.....	.....
Plan D													.2...6..	.2.4.6.8	.....	.....

TRUCK PRIORITY

Truck Priority (3-F)	Passage	CarryOver	Clearance	Next Priority	Phase Green	Det 2 Port	Det 3 Port	Det 4 Port	Sign Output	Slave Input	Slave Output
					.....	0.0	0.0	0.0	0	0.0	0

Appendix C - ITE Trip Generation Rates and Reduction Excerpts

Coffee/Donut Shop with Drive-Through Window and No Indoor Seating (938)

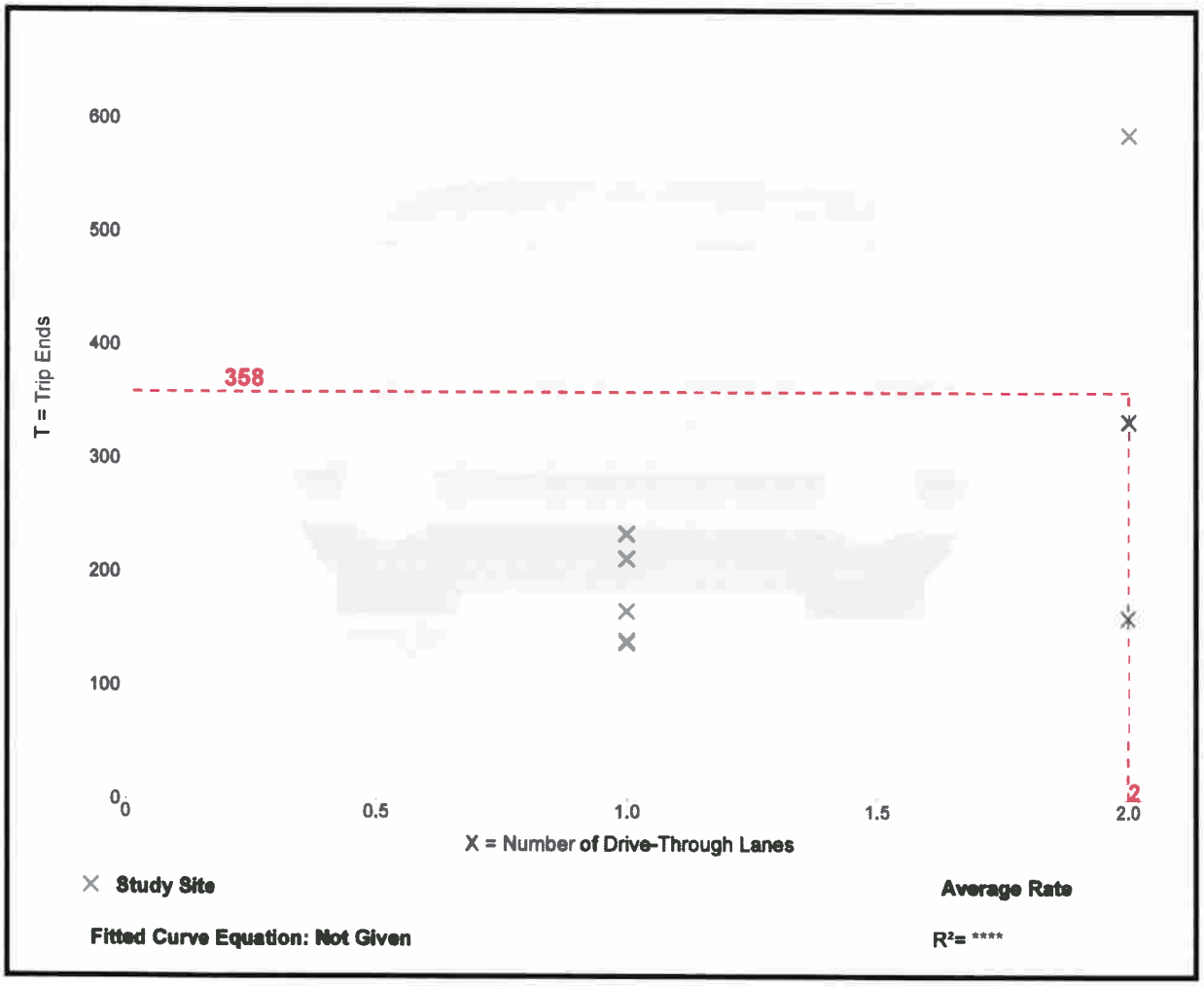
Vehicle Trip Ends vs: **Drive-Through Lanes**
On a: **Weekday**

Setting/Location: **General Urban/Suburban**
Number of Studies: 8
Avg. Num. of Drive-Through Lanes: 1
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Drive-Through Lane

Average Rate	Range of Rates	Standard Deviation
179.00	80.00 - 293.00	74.48

Data Plot and Equation



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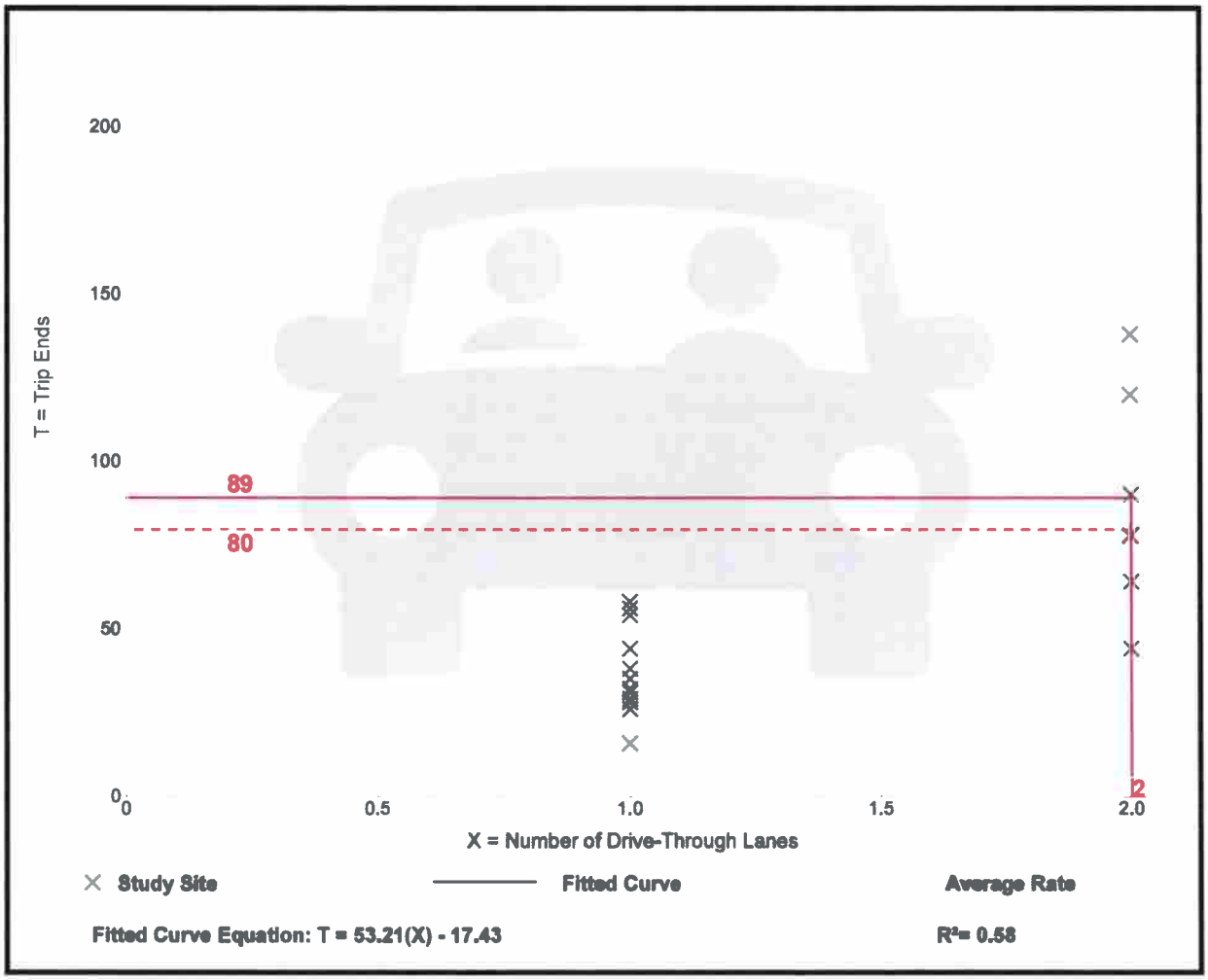
Coffee/Donut Shop with Drive-Through Window and No Indoor Seating (938)

Vehicle Trip Ends vs: **Drive-Through Lanes**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 7 and 9 a.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 20
Avg. Num. of Drive-Through Lanes: 1
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Drive-Through Lane

Average Rate	Range of Rates	Standard Deviation
39.81	16.00 - 69.00	15.44

Data Plot and Equation



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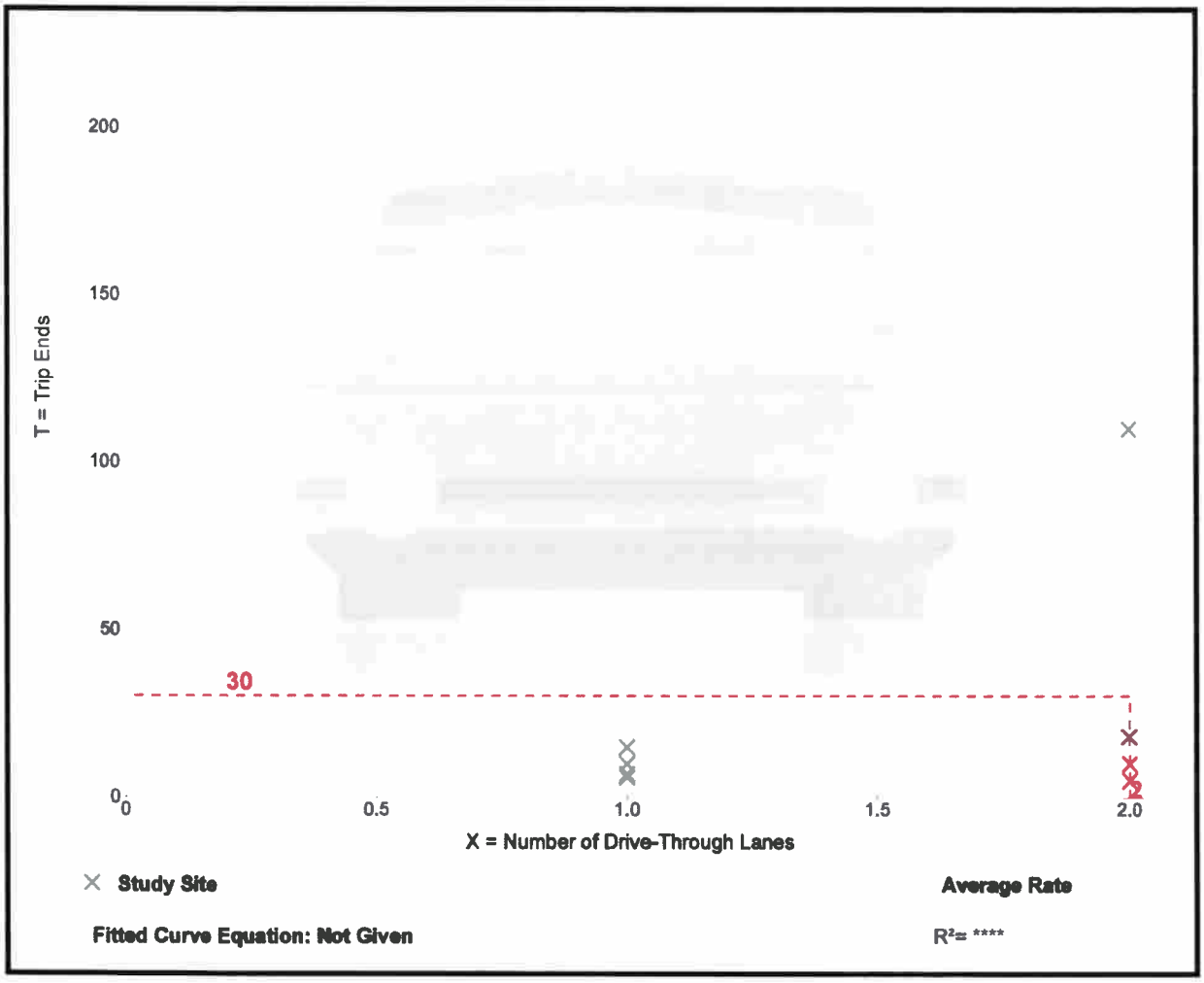
Coffee/Donut Shop with Drive-Through Window and No Indoor Seating (938)

Vehicle Trip Ends vs: **Drive-Through Lanes**
On a: **Weekday,**
Peak Hour of Adjacent Street Traffic,
One Hour Between 4 and 6 p.m.
Setting/Location: **General Urban/Suburban**
Number of Studies: 8
Avg. Num. of Drive-Through Lanes: 2
Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Drive-Through Lane

Average Rate	Range of Rates	Standard Deviation
15.08	2.50 - 55.00	19.41

Data Plot and Equation



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Vehicle Pass-By Rates by Land Use

Source: ITE *Trip Generation Manual*, 11th Edition

Land Use Code	938
Land Use	Coffee/Donut Shop with Drive-Through Window and No Indoor Seating
Setting	General Urban/Suburban
Time Period	Weekday AM Peak Period
# Data Sites	3
Average Pass-By Rate	90%

Pass-By Characteristics for Individual Sites

Drive-Through Lanes	State or Province	Survey Year	# Interviews	Pass-By Trip (%)	Non-Pass-By Trips			Adj Street Peak Hour Volume	Source
					Primary (%)	Diverted (%)	Total (%)		
1	Washington	1997	—	83	—	—	17	—	18
1	Oregon	1998	—	95	—	—	5	—	18
1	Washington	1998	—	92	—	—	8	—	18

Vehicle Pass-By Rates by Land Use

Source: ITE *Trip Generation Manual*, 11th Edition

Land Use Code	938
Land Use	Coffee/Donut Shop with Drive-Through Window and No Indoor Seating
Setting	General Urban/Suburban
Time Period	Weekday PM Peak Period
# Data Sites	2
Average Pass-By Rate	98%

Pass-By Characteristics for Individual Sites

Drive-Through Lanes	State or Province	Survey Year	# Interviews	Pass-By Trip (%)	Non-Pass-By Trips			Adj Street Peak Hour Volume	Source
					Primary (%)	Diverted (%)	Total (%)		
1	Washington	1997	—	100	—	—	0	—	18
1	Oregon	1998	—	95	—	—	5	—	18

Appendix D - Existing Counts

National Data & Surveying Services

Intersection Turning Movement Count

Location: Balsa Ave & 29 Palms Hwy/SR 62
City: Yucca Valley
Control: Signalized

Project ID: 25-030031-001
Date: 6/10/2025

Data - Total

NS/EW Streets:	Balsa Ave				Balsa Ave				29 Palms Hwy/SR 62				29 Palms Hwy/SR 62				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	1	1	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	16	0	1	0	4	8	7	0	1	92	2	0	0	116	1	2	250
7:15 AM	7	4	0	0	7	2	4	0	0	140	0	0	3	99	3	1	270
7:30 AM	9	2	2	0	5	5	1	0	0	135	1	0	3	130	0	3	296
7:45 AM	16	10	4	0	5	7	5	0	2	143	6	0	7	146	6	3	360
8:00 AM	11	3	4	0	11	12	4	0	3	160	4	0	4	161	5	2	384
8:15 AM	11	4	3	0	13	6	4	0	2	116	4	0	6	126	4	4	303
8:30 AM	16	4	5	0	10	6	3	0	3	139	0	0	3	157	3	3	352
8:45 AM	13	6	4	0	12	8	10	0	4	145	7	0	5	136	10	4	364
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	99	33	23	0	67	54	38	0	15	1070	24	0	31	1071	32	22	2579
APPROACH %'s :	63.87%	21.29%	14.84%	0.00%	42.14%	33.96%	23.90%	0.00%	1.35%	96.48%	2.16%	0.00%	2.68%	92.65%	2.77%	1.90%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	51	17	16	0	46	32	21	0	12	560	15	0	18	580	22	13	1403
PEAK HR FACTOR :	0.797	0.708	0.800	0.000	0.885	0.667	0.525	0.000	0.750	0.875	0.536	0.000	0.750	0.901	0.550	0.813	0.913
	0.840				0.825				0.879				0.920				

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	1	2	0	0	1	1	1	0	1	2	0	0	1	2	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	22	7	8	0	22	21	6	0	10	142	11	0	6	194	17	4	470
4:15 PM	11	16	10	0	11	20	15	0	4	159	18	0	11	170	13	4	462
4:30 PM	25	14	6	0	25	24	6	0	5	176	10	0	9	186	6	0	492
4:45 PM	13	10	6	0	23	16	6	0	4	189	19	0	6	183	13	2	490
5:00 PM	18	16	6	0	13	15	7	0	8	177	12	0	6	174	9	5	466
5:15 PM	12	16	9	0	18	20	9	0	4	201	10	0	6	166	9	3	483
5:30 PM	18	15	5	0	23	20	8	0	3	179	11	0	6	142	9	3	442
5:45 PM	20	17	4	0	11	16	2	0	3	155	11	0	10	162	10	1	422
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	139	111	54	0	146	152	59	0	41	1378	102	0	60	1377	86	22	3727
APPROACH %'s :	45.72%	36.51%	17.76%	0.00%	40.90%	42.58%	16.53%	0.00%	2.70%	90.60%	6.71%	0.00%	3.88%	89.13%	5.57%	1.42%	
PEAK HR :	04:30 PM - 05:30 PM																TOTAL
PEAK HR VOL :	68	56	27	0	79	75	28	0	21	743	51	0	27	709	37	10	1931
PEAK HR FACTOR :	0.680	0.875	0.750	0.000	0.790	0.781	0.778	0.000	0.656	0.924	0.671	0.000	0.750	0.953	0.712	0.500	0.981
	0.839				0.827				0.948				0.960				

National Data & Surveying Services

Intersection Turning Movement Count

Location: Balsa Ave & Walgreens/Sonic Drive-In Dwy
City: Yucca Valley
Control: 1-Way Stop(WB)

Project ID: 25-030031-002
Date: 6/10/2025

Data - Total

NS/EW Streets:	Balsa Ave				Balsa Ave				Walgreens/Sonic Drive-In Dwy				Walgreens/Sonic Drive-In Dwy				
AM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
7:00 AM	1	9	6	0	1	9	0	0	0	1	0	0	4	0	7	0	38
7:15 AM	0	8	10	0	1	2	1	0	0	0	1	0	2	0	4	0	29
7:30 AM	1	8	13	0	5	5	0	0	0	0	0	0	5	0	6	0	43
7:45 AM	0	14	4	0	6	11	2	0	0	0	0	0	2	0	15	0	54
8:00 AM	1	10	9	0	6	13	1	0	1	2	0	0	1	1	6	0	51
8:15 AM	1	14	1	0	3	11	1	0	0	1	1	0	4	1	6	0	44
8:30 AM	1	16	8	0	2	5	3	0	3	2	1	0	6	0	5	0	52
8:45 AM	2	14	5	0	8	10	3	0	2	0	0	0	4	0	6	0	54
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	7	93	56	0	32	66	11	0	6	6	3	0	28	2	55	0	365
APPROACH %'s :	4.49%	59.62%	35.90%	0.00%	29.36%	60.55%	10.09%	0.00%	40.00%	40.00%	20.00%	0.00%	32.94%	2.35%	64.71%	0.00%	
PEAK HR :	08:00 AM - 09:00 AM																TOTAL
PEAK HR VOL :	5	54	23	0	19	39	8	0	6	5	2	0	15	2	23	0	201
PEAK HR FACTOR :	0.625	0.844	0.639	0.000	0.594	0.750	0.667	0.000	0.500	0.625	0.500	0.000	0.625	0.500	0.958	0.000	0.931
			0.820				0.786				0.542				0.909		

PM	NORTHBOUND				SOUTHBOUND				EASTBOUND				WESTBOUND				
	0	1	0	0	0	2	0	0	0	1	0	0	0	1	0	0	
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
4:00 PM	3	14	1	0	12	18	8	0	8	0	6	0	8	1	13	0	92
4:15 PM	7	17	8	0	11	25	12	0	10	1	3	0	2	0	15	0	111
4:30 PM	6	20	13	0	11	27	6	0	13	2	7	0	8	0	8	1	122
4:45 PM	7	12	10	0	9	25	6	0	10	2	10	0	8	1	6	0	106
5:00 PM	3	17	15	0	7	24	3	0	6	0	4	0	7	0	18	0	104
5:15 PM	6	16	10	0	5	23	8	0	8	2	6	0	9	1	16	0	110
5:30 PM	5	16	8	0	9	25	3	0	13	0	5	0	5	0	7	0	96
5:45 PM	2	17	7	0	8	19	7	0	9	0	4	0	4	0	13	0	90
	NL	NT	NR	NU	SL	ST	SR	SU	EL	ET	ER	EU	WL	WT	WR	WU	TOTAL
TOTAL VOLUMES :	39	129	72	0	72	186	53	0	77	7	45	0	51	3	96	1	831
APPROACH %'s :	16.25%	53.75%	30.00%	0.00%	23.15%	59.81%	17.04%	0.00%	59.69%	5.43%	34.88%	0.00%	33.77%	1.99%	63.58%	0.66%	
PEAK HR :	04:15 PM - 05:15 PM																TOTAL
PEAK HR VOL :	23	66	46	0	38	101	27	0	39	5	24	0	25	1	47	1	443
PEAK HR FACTOR :	0.821	0.825	0.767	0.000	0.864	0.935	0.563	0.000	0.750	0.625	0.600	0.000	0.781	0.250	0.653	0.250	0.908
			0.865				0.865				0.773				0.740		

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Yucca Valley
N/S: Balsa Avenue/Hanford Avenue
E/W: Balsa Avenue/Sunnyslope Drive
Weather: Clear

File Name : YCV_Bal_Han AM
Site Code : 251098
Start Date : 11/13/2025
Page No : 1

Groups Printed- Total Volume

	Balsa Avenue Southbound				Sunnyslope Drive Westbound				Hanford Avenue Northbound				Balsa Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	3	5	2	10	1	1	10	12	0	8	1	9	4	0	0	4	35
07:15 AM	4	8	2	14	1	3	6	10	0	11	0	11	1	1	0	2	37
07:30 AM	1	13	1	15	0	1	4	5	1	11	0	12	4	1	0	5	37
07:45 AM	3	11	3	17	1	2	5	8	0	12	2	14	2	1	1	4	43
Total	11	37	8	56	3	7	25	35	1	42	3	46	11	3	1	15	152
08:00 AM	2	11	3	16	0	0	4	4	0	7	1	8	6	2	0	8	36
08:15 AM	5	10	10	25	0	3	10	13	0	6	1	7	2	1	0	3	48
08:30 AM	4	9	8	21	0	2	9	11	0	13	2	15	8	2	0	10	57
08:45 AM	6	11	4	21	1	3	11	15	0	14	3	17	2	3	0	5	58
Total	17	41	25	83	1	8	34	43	0	40	7	47	18	8	0	26	199
Grand Total	28	78	33	139	4	15	59	78	1	82	10	93	29	11	1	41	351
Apprch %	20.1	56.1	23.7		5.1	19.2	75.6		1.1	88.2	10.8		70.7	26.8	2.4		
Total %	8	22.2	9.4	39.6	1.1	4.3	16.8	22.2	0.3	23.4	2.8	26.5	8.3	3.1	0.3	11.7	

	Balsa Avenue Southbound				Sunnyslope Drive Westbound				Hanford Avenue Northbound				Balsa Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	2	**11**	3	16	0	0	4	4	0	7	1	8	6	2	0	8	36
08:15 AM	5	10	**10**	**25**	0	**3**	10	13	0	6	1	7	2	1	0	3	48
08:30 AM	4	9	8	21	0	2	9	11	0	13	2	15	**8**	2	0	**10**	57
08:45 AM	**6**	11	4	21	**1**	3	**11**	**15**	0	**14**	**3**	**17**	2	**3**	0	5	**58**
Total Volume	17	41	25	83	1	8	34	43	0	40	7	47	18	8	0	26	199
% App. Total	20.5	49.4	30.1		2.3	18.6	79.1		0	85.1	14.9		69.2	30.8	0		
PHF	.708	.932	.625	.830	.250	.667	.773	.717	.000	.714	.583	.691	.563	.667	.000	.650	.858

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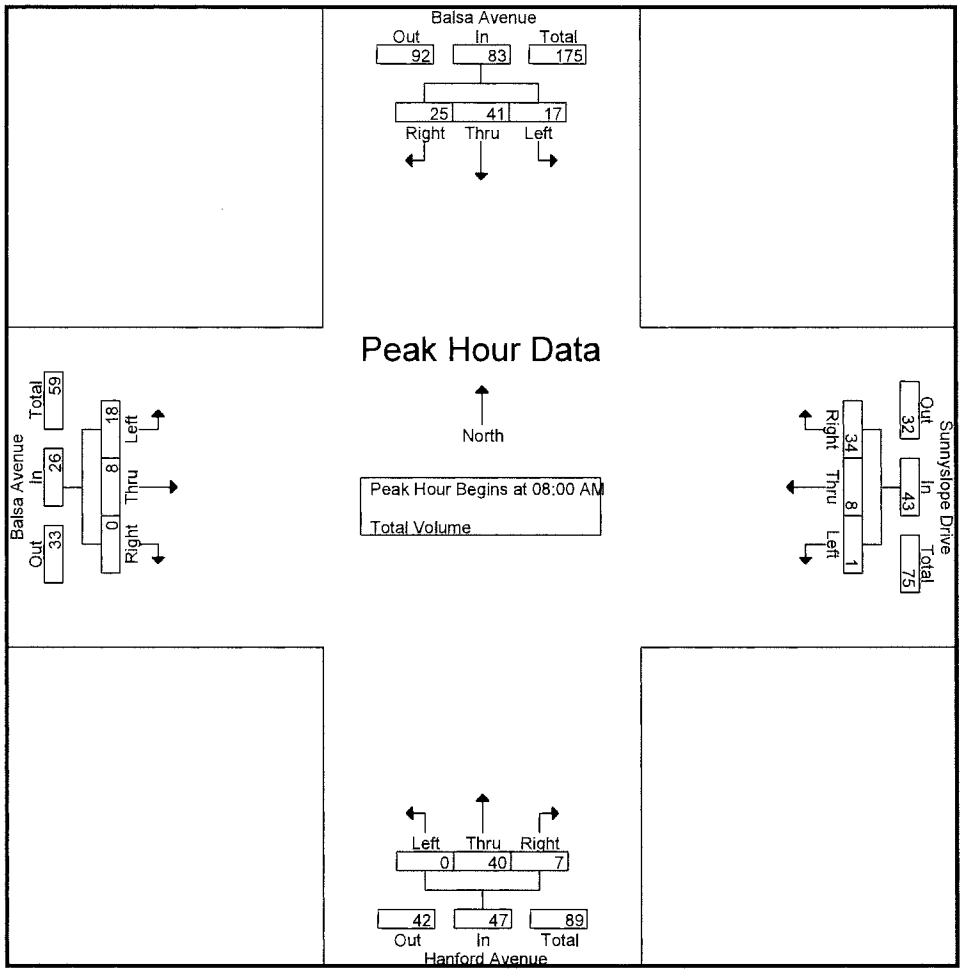
City of Yucca Valley
N/S: Balsa Avenue/Hanford Avenue
E/W: Balsa Avenue/Sunnyslope Drive
Weather: Clear

File Name : YCV_Bal_Han AM
Site Code : 251098
Start Date : 11/13/2025
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	2	**11**	3	16	0	0	4	4	0	7	1	8	6	2	0	8
+15 mins.	5	10	**10**	**25**	0	**3**	10	13	0	6	1	7	2	1	0	3
+30 mins.	4	9	8	21	0	2	9	11	0	13	2	15	**8**	2	0	**10**
+45 mins.	**6**	11	4	21	**1**	3	**11**	**15**	0	**14**	**3**	**17**	2	**3**	0	5
Total Volume	17	41	25	83	1	8	34	43	0	40	7	47	18	8	0	26
% App. Total	20.5	49.4	30.1		2.3	18.6	79.1		0	85.1	14.9		69.2	30.8	0	
PHF	.708	.932	.625	.830	.250	.667	.773	.717	.000	.714	.583	.691	.563	.667	.000	.650

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City of Yucca Valley
N/S: Balsa Avenue/Hanford Avenue
E/W: Balsa Avenue/Sunnyslope Drive
Weather: Clear

File Name : YCV_Bal_Han PM
Site Code : 251098
Start Date : 11/13/2025
Page No : 1

Groups Printed- Total Volume

	Balsa Avenue Southbound				Sunnyslope Drive Westbound				Hanford Avenue Northbound				Balsa Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	8	19	8	35	1	5	8	14	0	10	0	10	0	2	0	2	61
04:15 PM	10	25	4	39	1	1	10	12	0	11	2	13	6	0	0	6	70
04:30 PM	8	22	9	39	2	2	11	15	0	10	1	11	6	0	0	6	71
04:45 PM	6	18	11	35	2	4	12	18	0	15	2	17	9	1	0	10	80
Total	32	84	32	148	6	12	41	59	0	46	5	51	21	3	0	24	282
05:00 PM	7	29	9	45	1	4	11	16	0	12	1	13	4	1	0	5	79
05:15 PM	8	29	3	40	3	2	6	11	0	16	0	16	11	2	1	14	81
05:30 PM	9	24	8	41	0	0	10	10	0	20	0	20	3	0	0	3	74
05:45 PM	8	18	6	32	0	2	5	7	0	15	0	15	5	2	0	7	61
Total	32	100	26	158	4	8	32	44	0	63	1	64	23	5	1	29	295
Grand Total	64	184	58	306	10	20	73	103	0	109	6	115	44	8	1	53	577
Apprch %	20.9	60.1	19		9.7	19.4	70.9		0	94.8	5.2		83	15.1	1.9		
Total %	11.1	31.9	10.1	53	1.7	3.5	12.7	17.9	0	18.9	1	19.9	7.6	1.4	0.2	9.2	

	Balsa Avenue Southbound				Sunnyslope Drive Westbound				Hanford Avenue Northbound				Balsa Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	6	18	**11**	35	2	**4**	**12**	**18**	0	15	**2**	17	9	1	0	10	80
05:00 PM	7	**29**	9	**45**	1	4	11	16	0	12	1	13	4	1	0	5	79
05:15 PM	8	29	3	40	**3**	2	6	11	0	16	0	16	**11**	**2**	**1**	**14**	**81**
05:30 PM	**9**	24	8	41	0	0	10	10	0	**20**	0	**20**	3	0	0	3	74
Total Volume	30	100	31	161	6	10	39	55	0	63	3	66	27	4	1	32	314
% App. Total	18.6	62.1	19.3		10.9	18.2	70.9		0	95.5	4.5		84.4	12.5	3.1		
PHF	.833	.862	.705	.894	.500	.625	.813	.764	.000	.788	.375	.825	.614	.500	.250	.571	.969

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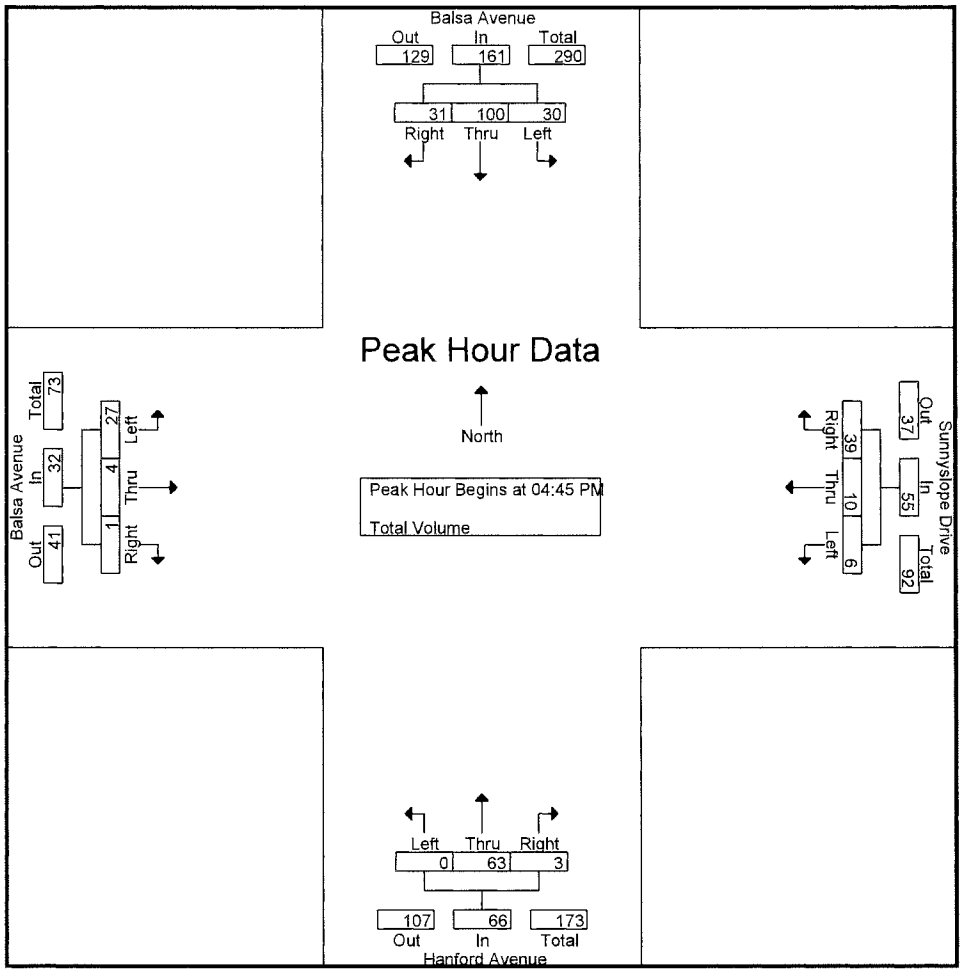
City of Yucca Valley
N/S: Balsa Avenue/Hanford Avenue
E/W: Balsa Avenue/Sunnyslope Drive
Weather: Clear

File Name : YCV_Bal_Han PM
Site Code : 251098
Start Date : 11/13/2025



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1

Peak Hour for Each Approach Begins at:

	04:45 PM				04:15 PM				04:45 PM				04:30 PM			
+0 mins.	6	18	**11**	35	1	1	10	12	0	15	**2**	17	6	0	0	6
+15 mins.	7	**29**	9	**45**	**2**	2	11	15	0	12	1	13	9	1	0	10
+30 mins.	8	29	3	40	2	**4**	**12**	**18**	0	16	0	16	4	1	0	5
+45 mins.	**9**	24	8	41	1	4	11	16	0	**20**	0	**20**	**11**	**2**	**1**	**14**
Total Volume	30	100	31	161	6	11	44	61	0	63	3	66	30	4	1	35
% App. Total	18.6	62.1	19.3		9.8	18	72.1		0	95.5	4.5		85.7	11.4	2.9	
PHF	.833	.862	.705	.894	.750	.688	.917	.847	.000	.788	.375	.825	.682	.500	.250	.625

Location: Yucca Valley
N/S: Balsa Ave/Hanford Ave
E/W: Balsa Ave/Sunnyslope Dr

Date: 11/13/2025
Day: Thursday

PEDESTRIANS

	North Leg Balsa Avenue Pedestrians	East Leg Sunnyslope Drive Pedestrians	South Leg Hanford Avenue Pedestrians	West Leg Balsa Avenue Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	1	1
7:30 AM	1	0	0	0	1
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	1	1
TOTAL VOLUMES:	1	0	0	2	3

	North Leg Balsa Avenue Pedestrians	East Leg Sunnyslope Drive Pedestrians	South Leg Hanford Avenue Pedestrians	West Leg Balsa Avenue Pedestrians	
4:00 PM	0	1	3	0	4
4:15 PM	2	0	0	0	2
4:30 PM	1	0	0	0	1
4:45 PM	0	1	0	0	1
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	3	2	3	0	8

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Location: Yucca Valley
N/S: Balsa Ave/Hanford Ave
E/W: Balsa Ave/Sunnyslope Dr

Date: 11/13/2025
Day: Thursday

BICYCLES

	Southbound Balsa Avenue			Westbound Sunnyslope Drive			Northbound Hanford Avenue			Eastbound Balsa Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

	Southbound Balsa Avenue			Westbound Sunnyslope Drive			Northbound Hanford Avenue			Eastbound Balsa Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix E - LOS Calculation Worksheets – Existing Conditions

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	12	560	15	31	580	22	51	17	16	46	32	21
Future Volume (veh/h)	12	560	15	31	580	22	51	17	16	46	32	21
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1853	1853	1870	1853	1853	1870	1716	1716	1870	1844	1844
Adj Flow Rate, veh/h	14	636	15	34	630	21	61	20	17	56	39	22
Peak Hour Factor	0.88	0.88	0.88	0.92	0.92	0.92	0.84	0.84	0.84	0.82	0.82	0.82
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	56	1598	38	533	2551	85	161	161	121	174	167	142
Arrive On Green	0.03	0.45	0.45	0.30	0.73	0.73	0.09	0.09	0.09	0.09	0.09	0.09
Sat Flow, veh/h	1781	3515	83	1781	3476	116	1341	1776	1331	1371	1844	1563
Grp Volume(v), veh/h	14	318	333	34	319	332	61	18	19	56	39	22
Grp Sat Flow(s),veh/h/ln	1781	1760	1838	1781	1760	1832	1341	1630	1476	1371	1844	1563
Q Serve(g_s), s	0.8	13.2	13.3	1.5	6.5	6.5	4.9	1.1	1.3	4.3	2.2	1.4
Cycle Q Clear(g_c), s	0.8	13.2	13.3	1.5	6.5	6.5	7.0	1.1	1.3	5.6	2.2	1.4
Prop In Lane	1.00		0.05	1.00		0.06	1.00		0.90	1.00		1.00
Lane Grp Cap(c), veh/h	56	800	835	533	1292	1344	161	148	134	174	167	142
V/C Ratio(X)	0.25	0.40	0.40	0.06	0.25	0.25	0.38	0.12	0.14	0.32	0.23	0.16
Avail Cap(c_a), veh/h	178	800	835	533	1292	1344	420	462	419	438	523	443
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.0	20.0	20.0	27.5	4.8	4.8	49.7	46.0	46.1	48.6	46.4	46.1
Incr Delay (d2), s/veh	0.8	1.5	1.4	0.0	0.5	0.4	0.5	0.1	0.2	0.4	0.3	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	5.5	5.7	0.6	2.0	2.1	1.6	0.5	0.5	1.5	1.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	52.8	21.5	21.4	27.6	5.2	5.2	50.3	46.1	46.2	49.0	46.7	46.3
LnGrp LOS	D	C	C	C	A	A	D	D	D	D	D	D
Approach Vol, veh/h		665			685			98			117	
Approach Delay, s/veh		22.1			6.3			48.7			47.7	
Approach LOS		C			A			D			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	38.9	56.0		15.1	8.2	86.7		15.1				
Change Period (Y+Rc), s	6.0	* 6		5.1	4.7	6.0		5.1				
Max Green Setting (Gmax), s	13.0	* 50		31.2	11.0	52.0		31.2				
Max Q Clear Time (g_c+I1), s	3.5	15.3		7.6	2.8	8.5		9.0				
Green Ext Time (p_c), s	0.0	2.4		0.2	0.0	2.4		0.2				

Intersection Summary	
HCM 7th Control Delay, s/veh	18.8
HCM 7th LOS	B

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection	
Int Delay, s/veh	3.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	6	5	2	15	2	23	5	54	23	19	39	8
Future Vol, veh/h	6	5	2	15	2	23	5	54	23	19	39	8
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	54	54	54	91	91	91	82	82	82	79	79	79
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	9	4	16	2	25	6	66	28	24	49	10

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	182	209	30	169	200	80	59	0	0	94	0	0
Stage 1	103	103	-	92	92	-	-	-	-	-	-	-
Stage 2	79	106	-	77	108	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.93	7.33	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	771	688	1038	786	696	980	1543	-	-	1499	-	-
Stage 1	893	810	-	915	818	-	-	-	-	-	-	-
Stage 2	929	807	-	923	806	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	734	674	1038	757	681	980	1543	-	-	1499	-	-
Mov Cap-2 Maneuver	734	674	-	757	681	-	-	-	-	-	-	-
Stage 1	878	797	-	911	815	-	-	-	-	-	-	-
Stage 2	899	804	-	894	793	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.02	9.38	0.45	2.14
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	104	-	-	742	865	1499	-	-
HCM Lane V/C Ratio	0.004	-	-	0.032	0.051	0.016	-	-
HCM Ctrl Dly (s/v)	7.3	0	-	10	9.4	7.4	-	-
HCM Lane LOS	A	A	-	B	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.2	0	-	-

Intersection	
Int Delay, s/veh	4.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑			↑			↑			↑	↱
Traffic Vol, veh/h	18	8	0	1	8	34	0	40	7	17	41	25
Future Vol, veh/h	18	8	0	1	8	34	0	40	7	17	41	25
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	65	65	65	72	72	72	69	69	69	83	83	83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	28	12	0	1	11	47	0	58	10	20	49	30

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	154	158	49	160	184	63	80	0	0	68	0	0
Stage 1	90	90	-	63	63	-	-	-	-	-	-	-
Stage 2	64	68	-	97	120	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	813	734	1019	806	711	1002	1518	-	-	1533	-	-
Stage 1	917	820	-	948	842	-	-	-	-	-	-	-
Stage 2	947	838	-	910	796	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	752	723	1019	781	701	1002	1518	-	-	1533	-	-
Mov Cap-2 Maneuver	752	723	-	781	701	-	-	-	-	-	-	-
Stage 1	904	809	-	948	842	-	-	-	-	-	-	-
Stage 2	891	838	-	884	785	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.12	9.18	0	1.51
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1518	-	-	743	922	528	-	-
HCM Lane V/C Ratio	-	-	-	0.054	0.065	0.013	-	-
HCM Ctrl Dly (s/v)	0	-	-	10.1	9.2	7.4	0	-
HCM Lane LOS	A	-	-	B	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0.2	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	21	743	51	37	709	37	68	56	27	79	75	28
Future Volume (veh/h)	21	743	51	37	709	37	68	56	27	79	75	28
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1856	1856	1870	1856	1856	1870	1711	1711	1870	1842	1842
Adj Flow Rate, veh/h	22	782	48	39	739	35	81	67	28	95	90	30
Peak Hour Factor	0.95	0.95	0.95	0.96	0.96	0.96	0.84	0.84	0.84	0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	77	1687	104	411	2392	113	164	289	114	189	234	198
Arrive On Green	0.04	0.50	0.50	0.23	0.70	0.70	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	1781	3374	207	1781	3427	162	1272	2276	899	1301	1842	1561
Grp Volume(v), veh/h	22	408	422	39	380	394	81	47	48	95	90	30
Grp Sat Flow(s),veh/h/ln	1781	1763	1818	1781	1763	1826	1272	1625	1549	1301	1842	1561
Q Serve(g_s), s	1.4	18.1	18.1	2.1	10.0	10.0	7.5	3.1	3.4	8.5	5.4	2.1
Cycle Q Clear(g_c), s	1.4	18.1	18.1	2.1	10.0	10.0	12.9	3.1	3.4	11.9	5.4	2.1
Prop In Lane	1.00		0.11	1.00		0.09	1.00		0.58	1.00		1.00
Lane Grp Cap(c), veh/h	77	881	909	411	1230	1275	164	206	197	189	234	198
V/C Ratio(X)	0.29	0.46	0.46	0.09	0.31	0.31	0.49	0.23	0.25	0.50	0.38	0.15
Avail Cap(c_a), veh/h	193	881	909	411	1230	1275	334	423	403	362	479	406
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.6	19.5	19.5	36.3	7.0	7.0	54.0	47.1	47.2	52.6	48.1	46.6
Incr Delay (d2), s/veh	0.7	1.8	1.7	0.0	0.7	0.6	0.8	0.2	0.2	0.8	0.4	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	7.5	7.7	0.9	3.5	3.6	2.4	1.3	1.3	2.8	2.5	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.3	21.3	21.2	36.4	7.6	7.6	54.8	47.3	47.4	53.3	48.5	46.8
LnGrp LOS	E	C	C	D	A	A	D	D	D	D	D	D
Approach Vol, veh/h		852			813			176			215	
Approach Delay, s/veh		22.2			9.0			50.8			50.4	
Approach LOS		C			A			D			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	33.7	66.0		20.3	9.9	89.8		20.3				
Change Period (Y+Rc), s	6.0	* 6		5.1	4.7	6.0		5.1				
Max Green Setting (Gmax), s	13.0	* 60		31.2	13.0	60.0		31.2				
Max Q Clear Time (g_c+I1), s	4.1	20.1		13.9	3.4	12.0		14.9				
Green Ext Time (p_c), s	0.0	3.2		0.4	0.0	3.0		0.4				

Intersection Summary		
HCM 7th Control Delay, s/veh	22.4	
HCM 7th LOS	C	

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection	
Int Delay, s/veh	4.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	39	5	24	26	1	47	23	66	46	38	101	27
Future Vol, veh/h	39	5	24	26	1	47	23	66	46	38	101	27
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	77	77	77	74	74	74	86	86	86	86	86	86
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	51	6	31	35	1	64	27	77	53	44	117	31

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	352	405	74	307	394	103	149	0	0	130	0	0
Stage 1	222	222	-	157	157	-	-	-	-	-	-	-
Stage 2	131	184	-	150	237	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.93	7.33	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	590	534	973	633	542	951	1431	-	-	1454	-	-
Stage 1	761	719	-	845	767	-	-	-	-	-	-	-
Stage 2	872	747	-	837	708	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	521	507	973	575	514	951	1431	-	-	1454	-	-
Mov Cap-2 Maneuver	521	507	-	575	514	-	-	-	-	-	-	-
Stage 1	737	697	-	828	752	-	-	-	-	-	-	-
Stage 2	796	732	-	778	686	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.75	10.41	1.29	1.73
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	283	-	-	622	766	1454	-	-
HCM Lane V/C Ratio	0.019	-	-	0.142	0.131	0.03	-	-
HCM Ctrl Dly (s/v)	7.6	0	-	11.7	10.4	7.6	-	-
HCM Lane LOS	A	A	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.5	0.4	0.1	-	-

Intersection	
Int Delay, s/veh	3.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	↱
Traffic Vol, veh/h	27	4	1	6	10	39	0	63	3	30	100	31
Future Vol, veh/h	27	4	1	6	10	39	0	63	3	30	100	31
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	65	65	65	72	72	72	69	69	69	83	83	83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	42	6	2	8	14	54	0	91	4	36	120	37

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	291	288	120	289	324	93	158	0	0	96	0	0
Stage 1	193	193	-	93	93	-	-	-	-	-	-	-
Stage 2	98	96	-	196	230	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	661	622	931	663	594	964	1422	-	-	1498	-	-
Stage 1	809	741	-	913	818	-	-	-	-	-	-	-
Stage 2	908	816	-	806	714	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	593	605	931	638	578	964	1422	-	-	1498	-	-
Mov Cap-2 Maneuver	593	605	-	638	578	-	-	-	-	-	-	-
Stage 1	788	721	-	913	818	-	-	-	-	-	-	-
Stage 2	843	816	-	777	695	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.52	9.85	0	1.39
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1422	-	-	602	819	415	-	-
HCM Lane V/C Ratio	-	-	-	0.082	0.093	0.024	-	-
HCM Ctrl Dly (s/v)	0	-	-	11.5	9.8	7.5	0	-
HCM Lane LOS	A	-	-	B	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.3	0.1	-	-

Appendix F - LOS Calculation Worksheets – Opening Year 2027 Cumulative Conditions

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	723	16	33	751	23	54	18	17	49	34	22
Future Volume (veh/h)	13	723	16	33	751	23	54	18	17	49	34	22
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1853	1853	1870	1853	1853	1870	1716	1716	1870	1844	1844
Adj Flow Rate, veh/h	15	822	16	36	816	22	64	21	18	60	41	23
Peak Hour Factor	0.88	0.88	0.88	0.92	0.92	0.92	0.84	0.84	0.84	0.82	0.82	0.82
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	60	1605	31	533	2563	69	159	161	121	173	167	142
Arrive On Green	0.03	0.45	0.45	0.30	0.73	0.73	0.09	0.09	0.09	0.09	0.09	0.09
Sat Flow, veh/h	1781	3532	69	1781	3501	94	1338	1769	1336	1368	1844	1563
Grp Volume(v), veh/h	15	410	428	36	410	428	64	19	20	60	41	23
Grp Sat Flow(s),veh/h/ln	1781	1760	1840	1781	1760	1836	1338	1630	1475	1368	1844	1563
Q Serve(g_s), s	0.9	18.2	18.2	1.6	9.0	9.0	5.1	1.2	1.4	4.6	2.3	1.5
Cycle Q Clear(g_c), s	0.9	18.2	18.2	1.6	9.0	9.0	7.4	1.2	1.4	6.0	2.3	1.5
Prop In Lane	1.00		0.04	1.00		0.05	1.00		0.91	1.00		1.00
Lane Grp Cap(c), veh/h	60	800	836	533	1289	1344	159	148	134	173	167	142
V/C Ratio(X)	0.25	0.51	0.51	0.07	0.32	0.32	0.40	0.13	0.15	0.35	0.24	0.16
Avail Cap(c_a), veh/h	178	800	836	533	1289	1344	417	462	418	437	523	443
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.8	21.3	21.3	27.6	5.1	5.1	49.9	46.0	46.1	48.9	46.5	46.1
Incr Delay (d2), s/veh	0.8	2.3	2.2	0.0	0.7	0.6	0.6	0.1	0.2	0.4	0.3	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	7.6	7.9	0.7	2.8	2.9	1.7	0.5	0.5	1.6	1.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	52.6	23.7	23.6	27.6	5.8	5.8	50.6	46.1	46.3	49.3	46.8	46.3
LnGrp LOS	D	C	C	C	A	A	D	D	D	D	D	D
Approach Vol, veh/h		853			874			103			124	
Approach Delay, s/veh		24.1			6.7			48.9			47.9	
Approach LOS		C			A			D			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	38.9	56.0		15.1	8.4	86.5		15.1				
Change Period (Y+Rc), s	6.0	* 6		5.1	4.7	6.0		5.1				
Max Green Setting (Gmax), s	13.0	* 50		31.2	11.0	52.0		31.2				
Max Q Clear Time (g_c+I1), s	3.6	20.2		8.0	2.9	11.0		9.4				
Green Ext Time (p_c), s	0.0	3.2		0.2	0.0	3.3		0.2				

Intersection Summary		
HCM 7th Control Delay, s/veh	19.1	
HCM 7th LOS	B	

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection	
Int Delay, s/veh	3.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	6	5	2	16	2	24	5	57	24	20	41	8
Future Vol, veh/h	6	5	2	16	2	24	5	57	24	20	41	8
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	54	54	54	91	91	91	82	82	82	79	79	79
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	11	9	4	18	2	26	6	70	29	25	52	10

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	190	219	31	178	209	84	62	0	0	99	0	0
Stage 1	108	108	-	96	96	-	-	-	-	-	-	-
Stage 2	83	111	-	81	113	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.93	7.33	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	761	679	1036	776	687	975	1540	-	-	1493	-	-
Stage 1	887	806	-	910	815	-	-	-	-	-	-	-
Stage 2	925	803	-	918	802	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	722	665	1036	747	673	975	1540	-	-	1493	-	-
Mov Cap-2 Maneuver	722	665	-	747	673	-	-	-	-	-	-	-
Stage 1	871	792	-	906	811	-	-	-	-	-	-	-
Stage 2	894	800	-	889	788	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.09	9.44	0.43	2.16
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	99	-	-	732	857	1493	-	-
HCM Lane V/C Ratio	0.004	-	-	0.033	0.054	0.017	-	-
HCM Ctrl Dly (s/v)	7.3	0	-	10.1	9.4	7.5	-	-
HCM Lane LOS	A	A	-	B	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0.2	0.1	-	-

Intersection	
Int Delay, s/veh	4.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	19	8	0	1	8	36	0	42	7	18	43	27
Future Vol, veh/h	19	8	0	1	8	36	0	42	7	18	43	27
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	65	65	65	72	72	72	69	69	69	83	83	83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	29	12	0	1	11	50	0	61	10	22	52	33

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	162	166	52	167	194	66	84	0	0	71	0	0
Stage 1	95	95	-	66	66	-	-	-	-	-	-	-
Stage 2	66	71	-	101	128	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	804	726	1016	797	702	998	1512	-	-	1529	-	-
Stage 1	912	816	-	945	840	-	-	-	-	-	-	-
Stage 2	944	836	-	905	790	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	740	716	1016	772	691	998	1512	-	-	1529	-	-
Mov Cap-2 Maneuver	740	716	-	772	691	-	-	-	-	-	-	-
Stage 1	898	804	-	945	840	-	-	-	-	-	-	-
Stage 2	885	836	-	878	779	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.21	9.2	0	1.51
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1512	-	-	733	919	531	-	-
HCM Lane V/C Ratio	-	-	-	0.057	0.068	0.014	-	-
HCM Ctrl Dly (s/v)	0	-	-	10.2	9.2	7.4	0	-
HCM Lane LOS	A	-	-	B	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0.2	0	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	939	54	39	909	39	72	59	29	84	80	30
Future Volume (veh/h)	22	939	54	39	909	39	72	59	29	84	80	30
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1856	1856	1870	1856	1856	1870	1711	1711	1870	1842	1842
Adj Flow Rate, veh/h	23	988	51	41	947	37	86	70	31	101	96	32
Peak Hour Factor	0.95	0.95	0.95	0.96	0.96	0.96	0.84	0.84	0.84	0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	79	1705	88	398	2385	93	169	300	125	195	247	210
Arrive On Green	0.04	0.50	0.50	0.22	0.69	0.69	0.13	0.13	0.13	0.13	0.13	0.13
Sat Flow, veh/h	1781	3411	176	1781	3459	135	1262	2235	933	1294	1842	1561
Grp Volume(v), veh/h	23	511	528	41	483	501	86	50	51	101	96	32
Grp Sat Flow(s),veh/h/ln	1781	1763	1824	1781	1763	1831	1262	1625	1543	1294	1842	1561
Q Serve(g_s), s	1.5	24.5	24.5	2.2	14.1	14.1	8.0	3.3	3.6	9.1	5.7	2.2
Cycle Q Clear(g_c), s	1.5	24.5	24.5	2.2	14.1	14.1	13.7	3.3	3.6	12.7	5.7	2.2
Prop In Lane	1.00		0.10	1.00		0.07	1.00		0.60	1.00		1.00
Lane Grp Cap(c), veh/h	79	881	912	398	1215	1263	169	218	207	195	247	210
V/C Ratio(X)	0.29	0.58	0.58	0.10	0.40	0.40	0.51	0.23	0.25	0.52	0.39	0.15
Avail Cap(c_a), veh/h	193	881	912	398	1215	1263	328	423	401	358	479	406
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.5	21.1	21.1	37.1	8.0	8.0	53.7	46.4	46.5	52.2	47.4	45.9
Incr Delay (d2), s/veh	0.7	2.8	2.7	0.0	1.0	0.9	0.9	0.2	0.2	0.8	0.4	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	10.2	10.6	1.0	5.0	5.2	2.6	1.3	1.4	3.0	2.6	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.2	23.9	23.8	37.1	8.9	8.9	54.6	46.6	46.7	53.0	47.8	46.0
LnGrp LOS	E	C	C	D	A	A	D	D	D	D	D	D
Approach Vol, veh/h		1062			1025			187			229	
Approach Delay, s/veh		24.5			10.1			50.3			49.8	
Approach LOS		C			B			D			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	32.8	66.0		21.2	10.1	88.7		21.2				
Change Period (Y+Rc), s	6.0	* 6		5.1	4.7	6.0		5.1				
Max Green Setting (Gmax), s	13.0	* 60		31.2	13.0	60.0		31.2				
Max Q Clear Time (g_c+I1), s	4.2	26.5		14.7	3.5	16.1		15.7				
Green Ext Time (p_c), s	0.0	4.3		0.4	0.0	4.1		0.4				

Intersection Summary	
HCM 7th Control Delay, s/veh	22.8
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection	
Int Delay, s/veh	4.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	41	5	25	28	1	50	24	70	49	40	107	29
Future Vol, veh/h	41	5	25	28	1	50	24	70	49	40	107	29
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	77	77	77	74	74	74	86	86	86	86	86	86
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	53	6	32	38	1	68	28	81	57	47	124	34

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	372	428	79	324	417	110	158	0	0	138	0	0
Stage 1	234	234	-	166	166	-	-	-	-	-	-	-
Stage 2	138	194	-	158	251	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.93	7.33	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	572	518	966	617	526	943	1420	-	-	1444	-	-
Stage 1	748	710	-	836	761	-	-	-	-	-	-	-
Stage 2	865	739	-	828	698	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	501	490	966	557	497	943	1420	-	-	1444	-	-
Mov Cap-2 Maneuver	501	490	-	557	497	-	-	-	-	-	-	-
Stage 1	723	686	-	818	744	-	-	-	-	-	-	-
Stage 2	784	724	-	766	675	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	12.06	10.6	1.27	1.72
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	279	-	-	602	750	1444	-	-
HCM Lane V/C Ratio	0.02	-	-	0.153	0.142	0.032	-	-
HCM Ctrl Dly (s/v)	7.6	0	-	12.1	10.6	7.6	-	-
HCM Lane LOS	A	A	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.5	0.5	0.1	-	-

Intersection	
Int Delay, s/veh	3.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	29	4	1	6	11	41	0	67	3	32	106	33
Future Vol, veh/h	29	4	1	6	11	41	0	67	3	32	106	33
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	65	65	65	72	72	72	69	69	69	83	83	83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	45	6	2	8	15	57	0	97	4	39	128	40

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	310	306	128	307	344	99	167	0	0	101	0	0
Stage 1	205	205	-	99	99	-	-	-	-	-	-	-
Stage 2	105	101	-	208	245	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	643	607	922	645	579	956	1410	-	-	1491	-	-
Stage 1	797	732	-	907	813	-	-	-	-	-	-	-
Stage 2	901	811	-	794	704	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	572	590	922	619	562	956	1410	-	-	1491	-	-
Mov Cap-2 Maneuver	572	590	-	619	562	-	-	-	-	-	-	-
Stage 1	774	711	-	907	813	-	-	-	-	-	-	-
Stage 2	831	811	-	763	683	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.82	9.97	0	1.4
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1410	-	-	580	804	417	-	-
HCM Lane V/C Ratio	-	-	-	0.09	0.1	0.026	-	-
HCM Ctrl Dly (s/v)	0	-	-	11.8	10	7.5	0	-
HCM Lane LOS	A	-	-	B	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.3	0.1	-	-

Appendix G - LOS Calculation Worksheets – Opening Year 2027 Cumulative with Project Conditions

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	13	723	34	42	751	23	72	20	26	49	36	22
Future Volume (veh/h)	13	723	34	42	751	23	72	20	26	49	36	22
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1853	1853	1870	1853	1853	1870	1716	1716	1870	1844	1844
Adj Flow Rate, veh/h	15	822	34	46	816	22	86	24	27	60	44	23
Peak Hour Factor	0.88	0.88	0.88	0.92	0.92	0.92	0.84	0.84	0.84	0.82	0.82	0.82
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	60	1566	65	507	2512	68	177	172	153	185	194	165
Arrive On Green	0.03	0.45	0.45	0.28	0.72	0.72	0.11	0.11	0.11	0.11	0.11	0.11
Sat Flow, veh/h	1781	3445	142	1781	3501	94	1334	1630	1454	1354	1844	1563
Grp Volume(v), veh/h	15	420	436	46	410	428	86	24	27	60	44	23
Grp Sat Flow(s),veh/h/ln	1781	1760	1827	1781	1760	1836	1334	1630	1454	1354	1844	1563
Q Serve(g_s), s	0.9	18.8	18.8	2.1	9.4	9.4	6.9	1.5	1.9	4.7	2.4	1.5
Cycle Q Clear(g_c), s	0.9	18.8	18.8	2.1	9.4	9.4	9.4	1.5	1.9	6.5	2.4	1.5
Prop In Lane	1.00		0.08	1.00		0.05	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	60	800	830	507	1263	1317	177	172	153	185	194	165
V/C Ratio(X)	0.25	0.52	0.53	0.09	0.32	0.32	0.49	0.14	0.18	0.32	0.23	0.14
Avail Cap(c_a), veh/h	178	800	830	507	1263	1317	415	462	412	426	523	443
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.8	21.5	21.5	28.9	5.7	5.7	49.4	44.7	44.8	47.8	45.1	44.7
Incr Delay (d2), s/veh	0.8	2.5	2.4	0.0	0.7	0.7	0.8	0.1	0.2	0.4	0.2	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	7.9	8.2	0.9	3.1	3.2	2.3	0.6	0.7	1.6	1.1	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	52.6	24.0	23.9	28.9	6.4	6.4	50.1	44.8	45.0	48.2	45.3	44.8
LnGrp LOS	D	C	C	C	A	A	D	D	D	D	D	D
Approach Vol, veh/h		871			884			137			127	
Approach Delay, s/veh		24.4			7.6			48.2			46.6	
Approach LOS		C			A			D			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	37.3	56.0		16.7	8.4	84.9		16.7				
Change Period (Y+Rc), s	6.0	* 6		5.1	4.7	6.0		5.1				
Max Green Setting (Gmax), s	13.0	* 50		31.2	11.0	52.0		31.2				
Max Q Clear Time (g_c+I1), s	4.1	20.8		8.5	2.9	11.4		11.4				
Green Ext Time (p_c), s	0.0	3.3		0.2	0.0	3.3		0.2				

Intersection Summary		
HCM 7th Control Delay, s/veh		20.0
HCM 7th LOS		C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection	
Int Delay, s/veh	4.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	35	5	18	16	2	24	20	57	24	20	41	37
Future Vol, veh/h	35	5	18	16	2	24	20	57	24	20	41	37
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	54	54	54	91	91	91	82	82	82	79	79	79
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	65	9	33	18	2	26	24	70	29	25	52	47

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	245	274	49	214	282	84	99	0	0	99	0	0
Stage 1	126	126	-	133	133	-	-	-	-	-	-	-
Stage 2	119	148	-	81	149	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.93	7.33	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	698	633	1009	733	626	975	1493	-	-	1493	-	-
Stage 1	865	791	-	870	786	-	-	-	-	-	-	-
Stage 2	884	775	-	918	773	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	654	611	1009	674	604	975	1493	-	-	1493	-	-
Mov Cap-2 Maneuver	654	611	-	674	604	-	-	-	-	-	-	-
Stage 1	850	777	-	855	772	-	-	-	-	-	-	-
Stage 2	843	761	-	862	760	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.79	9.69	1.48	1.52
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	336	-	-	729	813	1493	-	-
HCM Lane V/C Ratio	0.016	-	-	0.147	0.057	0.017	-	-
HCM Ctrl Dly (s/v)	7.5	0	-	10.8	9.7	7.5	-	-
HCM Lane LOS	A	A	-	B	A	A	-	-
HCM 95th %tile Q(veh)	0	-	-	0.5	0.2	0.1	-	-

Intersection	
Int Delay, s/veh	4.1

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	23	8	0	1	8	40	0	49	7	22	50	32
Future Vol, veh/h	23	8	0	1	8	40	0	49	7	22	50	32
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	65	65	65	72	72	72	69	69	69	83	83	83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	35	12	0	1	11	56	0	71	10	27	60	39

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	190	194	60	195	228	76	99	0	0	81	0	0
Stage 1	113	113	-	76	76	-	-	-	-	-	-	-
Stage 2	77	81	-	119	152	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	770	701	1005	764	672	985	1494	-	-	1516	-	-
Stage 1	892	802	-	933	832	-	-	-	-	-	-	-
Stage 2	932	828	-	885	772	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	701	688	1005	736	659	985	1494	-	-	1516	-	-
Mov Cap-2 Maneuver	701	688	-	736	659	-	-	-	-	-	-	-
Stage 1	875	787	-	933	832	-	-	-	-	-	-	-
Stage 2	868	828	-	855	757	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	10.54	9.3	0	1.57
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1494	-	-	698	906	550	-	-
HCM Lane V/C Ratio	-	-	-	0.068	0.075	0.017	-	-
HCM Ctrl Dly (s/v)	0	-	-	10.5	9.3	7.4	0	-
HCM Lane LOS	A	-	-	B	A	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0.2	0.1	-	-

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	939	60	42	909	39	78	60	32	84	81	30
Future Volume (veh/h)	22	939	60	42	909	39	78	60	32	84	81	30
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1856	1856	1870	1856	1856	1870	1711	1711	1870	1842	1842
Adj Flow Rate, veh/h	23	988	57	44	947	37	93	71	33	101	98	32
Peak Hour Factor	0.95	0.95	0.95	0.96	0.96	0.96	0.84	0.84	0.84	0.83	0.83	0.83
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	79	1694	98	386	2363	92	176	310	135	202	259	220
Arrive On Green	0.04	0.50	0.50	0.22	0.68	0.68	0.14	0.14	0.14	0.14	0.14	0.14
Sat Flow, veh/h	1781	3388	195	1781	3459	135	1260	2201	962	1290	1842	1561
Grp Volume(v), veh/h	23	514	531	44	483	501	93	51	53	101	98	32
Grp Sat Flow(s),veh/h/ln	1781	1763	1820	1781	1763	1831	1260	1625	1538	1290	1842	1561
Q Serve(g_s), s	1.5	24.7	24.7	2.4	14.3	14.3	8.7	3.4	3.7	9.1	5.8	2.2
Cycle Q Clear(g_c), s	1.5	24.7	24.7	2.4	14.3	14.3	14.5	3.4	3.7	12.7	5.8	2.2
Prop In Lane	1.00		0.11	1.00		0.07	1.00		0.63	1.00		1.00
Lane Grp Cap(c), veh/h	79	881	910	386	1204	1251	176	229	216	202	259	220
V/C Ratio(X)	0.29	0.58	0.58	0.11	0.40	0.40	0.53	0.22	0.24	0.50	0.38	0.15
Avail Cap(c_a), veh/h	193	881	910	386	1204	1251	327	423	400	356	479	406
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	55.5	21.2	21.2	37.7	8.3	8.3	53.4	45.8	45.9	51.5	46.8	45.2
Incr Delay (d2), s/veh	0.7	2.8	2.7	0.0	1.0	1.0	0.9	0.2	0.2	0.7	0.3	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	10.3	10.7	1.0	5.1	5.3	2.8	1.4	1.4	2.9	2.7	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	56.2	24.0	23.9	37.8	9.3	9.3	54.3	45.9	46.1	52.3	47.1	45.3
LnGrp LOS	E	C	C	D	A	A	D	D	D	D	D	D
Approach Vol, veh/h		1068			1028			197			231	
Approach Delay, s/veh		24.6			10.5			49.9			49.1	
Approach LOS		C			B			D			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	32.0	66.0		22.0	10.1	88.0		22.0				
Change Period (Y+Rc), s	6.0	* 6		5.1	4.7	6.0		5.1				
Max Green Setting (Gmax), s	13.0	* 60		31.2	13.0	60.0		31.2				
Max Q Clear Time (g_c+I1), s	4.4	26.7		14.7	3.5	16.3		16.5				
Green Ext Time (p_c), s	0.0	4.4		0.5	0.0	4.1		0.4				

Intersection Summary	
HCM 7th Control Delay, s/veh	23.1
HCM 7th LOS	C

Notes

* HCM 7th computational engine requires equal clearance times for the phases crossing the barrier.

Intersection	
Int Delay, s/veh	5.2

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	51	5	30	28	1	50	29	70	49	40	107	39
Future Vol, veh/h	51	5	30	28	1	50	29	70	49	40	107	39
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	77	77	77	74	74	74	86	86	86	86	86	86
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	66	6	39	38	1	68	34	81	57	47	124	45

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	390	446	85	336	440	110	170	0	0	138	0	0
Stage 1	240	240	-	177	177	-	-	-	-	-	-	-
Stage 2	150	206	-	158	263	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.93	7.33	6.53	6.23	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	556	506	958	606	510	943	1406	-	-	1444	-	-
Stage 1	743	706	-	824	752	-	-	-	-	-	-	-
Stage 2	852	731	-	828	690	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	485	476	958	540	480	943	1406	-	-	1444	-	-
Mov Cap-2 Maneuver	485	476	-	540	480	-	-	-	-	-	-	-
Stage 1	717	682	-	802	732	-	-	-	-	-	-	-
Stage 2	769	712	-	760	667	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	12.6	10.7	1.49	1.63
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	326	-	-	585	738	1444	-	-
HCM Lane V/C Ratio	0.024	-	-	0.191	0.145	0.032	-	-
HCM Ctrl Dly (s/v)	7.6	0	-	12.6	10.7	7.6	-	-
HCM Lane LOS	A	A	-	B	B	A	-	-
HCM 95th %tile Q(veh)	0.1	-	-	0.7	0.5	0.1	-	-

Intersection	
Int Delay, s/veh	3.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	30	4	1	6	11	42	0	70	3	33	109	34
Future Vol, veh/h	30	4	1	6	11	42	0	70	3	33	109	34
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	65	65	65	72	72	72	69	69	69	83	83	83
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	46	6	2	8	15	58	0	101	4	40	131	41

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	320	317	131	318	355	104	172	0	0	106	0	0
Stage 1	211	211	-	104	104	-	-	-	-	-	-	-
Stage 2	109	106	-	214	252	-	-	-	-	-	-	-
Critical Hdwy	7.12	6.52	6.22	7.12	6.52	6.22	4.12	-	-	4.12	-	-
Critical Hdwy Stg 1	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.12	5.52	-	6.12	5.52	-	-	-	-	-	-	-
Follow-up Hdwy	3.518	4.018	3.318	3.518	4.018	3.318	2.218	-	-	2.218	-	-
Pot Cap-1 Maneuver	633	599	918	635	570	951	1405	-	-	1485	-	-
Stage 1	791	728	-	902	809	-	-	-	-	-	-	-
Stage 2	896	808	-	788	699	-	-	-	-	-	-	-
Platoon blocked, %								-	-		-	-
Mov Cap-1 Maneuver	561	582	918	609	553	951	1405	-	-	1485	-	-
Mov Cap-2 Maneuver	561	582	-	609	553	-	-	-	-	-	-	-
Stage 1	768	706	-	902	809	-	-	-	-	-	-	-
Stage 2	825	808	-	757	678	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Ctrl Dly, s/v	11.98	10.02	0	1.4
HCM LOS	B	B		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT	SBR
Capacity (veh/h)	1405	-	-	570	798	418	-	-
HCM Lane V/C Ratio	-	-	-	0.095	0.103	0.027	-	-
HCM Ctrl Dly (s/v)	0	-	-	12	10	7.5	0	-
HCM Lane LOS	A	-	-	B	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0.3	0.1	-	-

Appendix H - Drive Through Data Collection Sheets

	Weekday AM Peak Hour								
	44175 Jefferson St, La Quinta			34051 Date Palm Dr, Cathedral City			81-776 Highway 111 Indio		
TIME	Average	85th Percentile	Peak Queue	Average	85th Percentile	Peak Queue	Average	85th Percentile	Peak Queue
6:00 AM	4	5	5	1	2	2	4	6	6
6:15 AM	2	3	3	3	4	4	5	5	5
6:30 AM	4	8	10	4	5	5	9	9	9
6:45 AM	11	12	12	1	1	1	6	7	7
7:00 AM	14	14	14	4	5	5	6	7	7
7:15 AM	14	16	17	8	10	10	8	9	9
7:30 AM	20	22	22	9	10	10	6	8	8
7:45 AM	14	15	15	11	12	12	6	7	7
8:00 AM	20	20	20	12	13	13	10	13	14
8:15 AM	20	22	23	15	16	16	15	16	16
8:30 AM	19	20	20	16	18	18	15	16	16
8:45 AM	14	17	18	12	13	13	13	14	14
9:00 AM	6	18	18	4	10	10	2	6	6
2:00 PM	4	7	7	14	16	16	6	7	7
2:15 PM	3	4	4	5	6	7	3	5	5
2:30 PM	9	11	12	4	5	5	5	6	6
2:45 PM	6	10	11	2	3	3	3	5	5
3:00 PM	6	8	9	5	5	5	7	8	8
3:15 PM	13	15	15	8	9	9	6	8	8
3:30 PM	6	9	11	6	6	6	3	4	4
3:45 PM	5	8	8	7	8	8	5	6	6
4:00 PM	2	3	3	6	7	7	5	5	5
4:15 PM	6	8	8	4	4	4	4	5	5
4:30 PM	5	6	6	6	6	6	5	8	8
4:45 PM	3	3	3	3	4	4	9	10	10
5:00 PM	1	3	3	2	4	4	3	8	8

	Weekend AM Peak Hour								
	44175 Jefferson St, La Quinta			34051 Date Palm Dr, Cathedral City			81-776 Highway 111 Indio		
TIME	Average	85th Percentile	Peak Queue	Average	85th Percentile	Peak Queue	Average	85th Percentile	Peak Queue
6:00 AM	1	1	1	0	0	0	2	2	2
6:15 AM	2	3	3	1	1	1	1	1	1
6:30 AM	2	3	3	2	3	3	3	3	3
6:45 AM	2	4	4	0	0	0	6	7	7
7:00 AM	3	3	3	2	3	3	4	5	5
7:15 AM	4	4	4	0	0	0	1	2	2
7:30 AM	3	4	4	2	3	3	4	5	5
7:45 AM	2	3	3	3	4	4	9	11	11
8:00 AM	11	14	16	2	3	3	8	9	9
8:15 AM	15	17	17	4	6	7	4	5	5
8:30 AM	11	14	15	5	5	5	3	4	4
8:45 AM	11	13	13	6	6	6	3	4	4
9:00 AM	3	8	8	3	9	9	0	0	0
2:00 PM	10	11	11	18	18	18	8	9	9
2:15 PM	12	12	12	18	20	20	10	11	11
2:30 PM	10	10	10	17	18	18	5	7	7
2:45 PM	11	12	12	13	14	14	4	6	6
3:00 PM	11	11	11	13	13	13	8	9	9
3:15 PM	9	10	10	10	11	11	6	8	8
3:30 PM	12	13	13	13	14	14	3	3	3
3:45 PM	8	8	8	4	7	7	5	6	6
4:00 PM	8	8	8	4	5	5	3	4	4
4:15 PM	5	6	6	3	3	3	6	8	8
4:30 PM	13	13	13	6	6	6	7	9	10
4:45 PM	10	11	11	7	8	8	11	12	12
5:00 PM	3	9	9	2	5	5	3	9	9

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 44175 Jefferson St
CITY: La Quinta

DAY: Wednesday
DATE: 11/12/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
6:00	2	3	**5**
6:05	1	3	**4**
6:10	2	1	**3**
6:15	0	1	**1**
6:20	2	1	**3**
6:25	0	1	**1**
6:30	0	0	**0**
6:35	1	1	**2**
6:40	5	5	**10**
6:45	5	5	**10**
6:50	5	5	**10**
6:55	6	6	**12**
7:00	5	9	**14**
7:05	5	9	**14**
7:10	6	8	**14**
7:15	4	6	**10**
7:20	6	7	**13**
7:25	6	11	**17**
7:30	7	15	**22**
7:35	7	12	**19**
7:40	5	14	**19**
7:45	6	9	**15**
7:50	7	8	**15**
7:55	7	5	**12**
8:00	7	13	**20**
8:05	7	13	**20**
8:10	6	13	**19**
8:15	8	15	**23**
8:20	7	11	**18**
8:25	6	11	**17**
8:30	6	12	**18**
8:35	7	10	**17**
8:40	7	13	**20**
8:45	7	11	**18**
8:50	6	3	**9**
8:55	7	6	**13**
9:00	6	12	**18**

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 44175 Jefferson 5t
CITY: La Quinta

DAY: Wednesday
DATE: 11/12/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
14:00	7	0	**7**
14:05	4	0	**4**
14:10	1	0	**1**
14:15	2	2	**4**
14:20	2	2	**4**
14:25	0	0	**0**
14:30	7	1	**8**
14:35	5	2	**7**
14:40	7	5	**12**
14:45	6	5	**11**
14:50	4	1	**5**
14:55	0	0	**0**
15:00	5	0	**5**
15:05	3	0	**3**
15:10	6	3	**9**
15:15	7	4	**11**
15:20	6	7	**13**
15:25	8	7	**15**
15:30	8	3	**11**
15:35	3	1	**4**
15:40	3	0	**3**
15:45	1	0	**1**
15:50	6	2	**8**
15:55	5	0	**5**
16:00	2	0	**2**
16:05	0	0	**0**
16:10	3	0	**3**
16:15	6	2	**8**
16:20	2	2	**4**
16:25	5	0	**5**
16:30	3	0	**3**
16:35	3	2	**5**
16:40	4	2	**6**
16:45	3	0	**3**
16:50	1	2	**3**
16:55	1	0	**1**
17:00	3	0	**3**

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 44175 Jefferson St
CITY: La Quinta

DAY: Saturday
DATE: 12/6/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
6:00	0	0	**0**
6:05	1	0	**1**
6:10	0	0	**0**
6:15	2	1	**3**
6:20	1	0	**1**
6:25	2	0	**2**
6:30	1	0	**1**
6:35	1	0	**1**
6:40	2	1	**3**
6:45	1	0	**1**
6:50	0	1	**1**
6:55	2	2	**4**
7:00	2	0	**2**
7:05	2	1	**3**
7:10	2	0	**2**
7:15	4	0	**4**
7:20	4	0	**4**
7:25	2	0	**2**
7:30	2	0	**2**
7:35	3	0	**3**
7:40	2	2	**4**
7:45	1	0	**1**
7:50	0	0	**0**
7:55	2	1	**3**
8:00	5	1	**6**
8:05	6	3	**9**
8:10	6	10	**16**
8:15	7	7	**14**
8:20	7	6	**13**
8:25	7	10	**17**
8:30	7	8	**15**
8:35	5	2	**7**
8:40	7	2	**9**
8:45	6	2	**8**
8:50	6	7	**13**
8:55	7	5	**12**
9:00	6	2	**8**

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 44175 Jefferson St
CITY: La Quinta

DAY: Saturday
DATE: 12/6/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
14:00	7	4	**11**
14:05	6	3	**9**
14:10	7	2	**9**
14:15	7	4	**11**
14:20	8	4	**12**
14:25	7	4	**11**
14:30	7	3	**10**
14:35	7	3	**10**
14:40	7	3	**10**
14:45	7	5	**12**
14:50	7	2	**9**
14:55	6	6	**12**
15:00	7	4	**11**
15:05	7	4	**11**
15:10	6	3	**9**
15:15	6	2	**8**
15:20	7	1	**8**
15:25	7	3	**10**
15:30	7	6	**13**
15:35	6	4	**10**
15:40	6	6	**12**
15:45	5	1	**6**
15:50	6	2	**8**
15:55	5	3	**8**
16:00	5	3	**8**
16:05	6	1	**7**
16:10	5	2	**7**
16:15	4	0	**4**
16:20	4	2	**6**
16:25	4	1	**5**
16:30	7	5	**12**
16:35	6	6	**12**
16:40	7	6	**13**
16:45	8	1	**9**
16:50	7	2	**9**
16:55	7	4	**11**
17:00	7	2	**9**

Counts Unlimited, Inc.
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Corona, CA 92878
951-268-6268

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 34051 Date Palm Dr
CITY: Cathedral City

DAY: Wednesday
DATE: 11/12/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
6:00	0	0	**0**
6:05	1	1	**2**
6:10	0	0	**0**
6:15	3	1	**4**
6:20	1	0	**1**
6:25	1	2	**3**
6:30	1	2	**3**
6:35	4	1	**5**
6:40	3	0	**3**
6:45	1	0	**1**
6:50	1	0	**1**
6:55	0	0	**0**
7:00	2	2	**4**
7:05	3	2	**5**
7:10	2	1	**3**
7:15	1	3	**4**
7:20	2	6	**8**
7:25	1	9	**10**
7:30	4	4	**8**
7:35	4	6	**10**
7:40	4	4	**8**
7:45	2	8	**10**
7:50	5	4	**9**
7:55	4	8	**12**
8:00	3	8	**11**
8:05	4	9	**13**
8:10	2	10	**12**
8:15	5	9	**14**
8:20	4	9	**13**
8:25	5	11	**16**
8:30	5	13	**18**
8:35	5	12	**17**
8:40	4	9	**13**
8:45	4	8	**12**
8:50	5	8	**13**
8:55	4	6	**10**
9:00	4	6	**10**

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 34051 Date Palm Dr
CITY: Cathedral City

DAY: Wednesday
DATE: 11/12/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
14:00	5	9	**14**
14:05	5	11	**16**
14:10	4	7	**11**
14:15	4	3	**7**
14:20	3	0	**3**
14:25	3	0	**3**
14:30	1	2	**3**
14:35	2	3	**5**
14:40	2	0	**2**
14:45	3	0	**3**
14:50	1	1	**2**
14:55	1	0	**1**
15:00	1	4	**5**
15:05	4	1	**5**
15:10	3	1	**4**
15:15	3	6	**9**
15:20	4	3	**7**
15:25	5	3	**8**
15:30	3	3	**6**
15:35	3	3	**6**
15:40	3	1	**4**
15:45	4	4	**8**
15:50	4	2	**6**
15:55	4	3	**7**
16:00	4	3	**7**
16:05	4	1	**5**
16:10	3	2	**5**
16:15	2	2	**4**
16:20	3	1	**4**
16:25	4	0	**4**
16:30	2	3	**5**
16:35	4	2	**6**
16:40	5	1	**6**
16:45	3	0	**3**
16:50	2	0	**2**
16:55	0	4	**4**
17:00	3	1	**4**

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 34051 Date Palm Dr
CITY: Cathedral City

DAY: Saturday
DATE: 12/6/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
6:00	0	0	**0**
6:05	0	0	**0**
6:10	0	0	**0**
6:15	0	0	**0**
6:20	0	1	**1**
6:25	0	0	**0**
6:30	1	2	**3**
6:35	0	0	**0**
6:40	1	0	**1**
6:45	0	0	**0**
6:50	0	0	**0**
6:55	0	0	**0**
7:00	0	1	**1**
7:05	0	1	**1**
7:10	3	0	**3**
7:15	0	0	**0**
7:20	0	0	**0**
7:25	0	0	**0**
7:30	0	0	**0**
7:35	3	0	**3**
7:40	3	0	**3**
7:45	2	0	**2**
7:50	3	0	**3**
7:55	3	1	**4**
8:00	3	0	**3**
8:05	0	0	**0**
8:10	1	0	**1**
8:15	1	0	**1**
8:20	3	4	**7**
8:25	1	1	**2**
8:30	2	3	**5**
8:35	4	0	**4**
8:40	3	1	**4**
8:45	2	3	**5**
8:50	3	2	**5**
8:55	3	3	**6**
9:00	5	4	**9**

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 34051 Date Palm Dr
CITY: Cathedral City

DAY: Saturday
DATE: 12/6/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
14:00	5	13	**18**
14:05	5	13	**18**
14:10	5	13	**18**
14:15	5	12	**17**
14:20	5	15	**20**
14:25	5	11	**16**
14:30	6	12	**18**
14:35	4	12	**16**
14:40	5	10	**15**
14:45	5	8	**13**
14:50	4	10	**14**
14:55	5	7	**12**
15:00	4	9	**13**
15:05	4	8	**12**
15:10	4	8	**12**
15:15	4	5	**9**
15:20	3	7	**10**
15:25	4	7	**11**
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15:35	4	9	**13**
15:40	3	9	**12**
15:45	3	4	**7**
15:50	4	0	**4**
15:55	0	0	**0**
16:00	4	1	**5**
16:05	3	1	**4**
16:10	2	0	**2**
16:15	0	1	**1**
16:20	2	1	**3**
16:25	3	0	**3**
16:30	1	3	**4**
16:35	2	4	**6**
16:40	2	4	**6**
16:45	2	3	**5**
16:50	3	5	**8**
16:55	4	3	**7**
17:00	3	2	**5**

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 81-776 Hwy 111
CITY: Indio, CA

DAY: Wednesday
DATE: 11/12/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
6:00	1	5	**6**
6:05	2	1	**3**
6:10	2	0	**2**
6:15	2	3	**5**
6:20	2	2	**4**
6:25	2	3	**5**
6:30	2	6	**8**
6:35	2	7	**9**
6:40	2	7	**9**
6:45	2	5	**7**
6:50	2	1	**3**
6:55	2	4	**6**
7:00	2	3	**5**
7:05	2	3	**5**
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7:15	2	6	**8**
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7:30	2	6	**8**
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7:45	3	4	**7**
7:50	2	3	**5**
7:55	3	2	**5**
8:00	3	3	**6**
8:05	3	6	**9**
8:10	3	11	**14**
8:15	3	13	**16**
8:20	4	11	**15**
8:25	4	10	**14**
8:30	5	9	**14**
8:35	5	11	**16**
8:40	5	9	**14**
8:45	5	8	**13**
8:50	5	9	**14**
8:55	5	5	**10**
9:00	3	3	**6**

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 81-776 Hwy 111
CITY: Indio, CA

DAY: Wednesday
DATE: 11/12/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
14:00	3	0	**3**
14:05	3	3	**6**
14:10	2	5	**7**
14:15	4	1	**5**
14:20	2	0	**2**
14:25	2	0	**2**
14:30	3	2	**5**
14:35	3	3	**6**
14:40	3	0	**3**
14:45	3	2	**5**
14:50	1	0	**1**
14:55	3	0	**3**
15:00	3	3	**6**
15:05	4	4	**8**
15:10	4	2	**6**
15:15	4	4	**8**
15:20	3	2	**5**
15:25	2	1	**3**
15:30	3	0	**3**
15:35	1	0	**1**
15:40	3	1	**4**
15:45	1	3	**4**
15:50	3	1	**4**
15:55	3	3	**6**
16:00	3	2	**5**
16:05	2	3	**5**
16:10	2	3	**5**
16:15	2	3	**5**
16:20	3	0	**3**
16:25	1	1	**2**
16:30	4	4	**8**
16:35	2	0	**2**
16:40	3	2	**5**
16:45	3	7	**10**
16:50	4	4	**8**
16:55	4	4	**8**
17:00	4	4	**8**

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 81-776 Hwy 111
CITY: Indio, CA

DAY: Saturday
DATE: 12/6/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
6:00	2	0	**2**
6:05	1	0	**1**
6:10	1	0	**1**
6:15	0	0	**0**
6:20	1	0	**1**
6:25	1	0	**1**
6:30	3	0	**3**
6:35	2	0	**2**
6:40	2	0	**2**
6:45	3	1	**4**
6:50	3	2	**5**
6:55	3	4	**7**
7:00	3	2	**5**
7:05	3	1	**4**
7:10	2	0	**2**
7:15	2	0	**2**
7:20	0	0	**0**
7:25	0	0	**0**
7:30	2	0	**2**
7:35	3	2	**5**
7:40	2	2	**4**
7:45	4	3	**7**
7:50	3	6	**9**
7:55	4	7	**11**
8:00	4	5	**9**
8:05	4	4	**8**
8:10	4	2	**6**
8:15	3	2	**5**
8:20	2	1	**3**
8:25	1	1	**2**
8:30	3	1	**4**
8:35	2	0	**2**
8:40	1	1	**2**
8:45	1	1	**2**
8:50	1	1	**2**
8:55	3	1	**4**
9:00	0	0	**0**

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL

DRIVE THRU SURVEY

LOCATION: Dutch Bros, 81-776 Hwy 111
CITY: Indio, CA

DAY: Saturday
DATE: 12/6/2025

TIME	PickUp Window To Order Board	Order Board to End of Queue	TOTAL
14:00	3	3	**6**
14:05	3	5	**8**
14:10	4	5	**9**
14:15	4	7	**11**
14:20	5	6	**11**
14:25	4	4	**8**
14:30	1	2	**3**
14:35	2	2	**4**
14:40	4	3	**7**
14:45	4	2	**6**
14:50	1	2	**3**
14:55	1	0	**1**
15:00	3	2	**5**
15:05	4	4	**8**
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16:00	1	0	**1**
16:05	2	2	**4**
16:10	3	1	**4**
16:15	3	0	**3**
16:20	4	4	**8**
16:25	4	2	**6**
16:30	2	3	**5**
16:35	3	3	**6**
16:40	5	5	**10**
16:45	4	4	**8**
16:50	5	7	**12**
16:55	4	8	**12**
17:00	5	4	**9**

YUCCA VALLEY DUTCH BROS PROJECT

Conditional Use Permit (CUP) 02-25, Environmental Assessment (EA) 03-25

Final Initial Study and Mitigated Negative Declaration

Prepared for:

Town of Yucca Valley
58928 Business Center Drive
Yucca Valley, California 92284

Prepared by:

Impact Sciences, Inc.
445 S. Figueroa Street, Suite 2550
Los Angeles, California 90071

April 2026

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1.0 INTRODUCTION

1.1. PROJECT SUMMARY

The proposed Yucca Valley Dutch Bros Project (Project) involves the construction and operation of an approximately 1,025-square-foot Dutch Bros Coffee shop on a 1.01-acre vacant site located at 58121 Twentynine Palms Highway (State Route 62/SR-62) in the Town of Yucca Valley (Town), San Bernardino County, California on Assessor's Parcel Number 0601-416-05 (Project Site). The Project Site is designated Mixed Use (MU) and zoned Mixed-Use Commercial (C-MU) by the Town's General Plan.

The proposed coffee shop is designed as a dual-lane drive-through facility with a queuing capacity of up to 23 vehicles, limited walk-up service, and no indoor seating. The Project includes 18 surface parking spaces (including accessible and future electric vehicle charging spaces), drought-tolerant landscaping, shielded exterior lighting, and an on-site stormwater retention pond designed to capture, detain, and treat runoff in compliance with the Town's stormwater requirements and the National Pollutant Discharge Elimination System (NPDES) program.

Site access would be provided via two existing shared driveways that currently serve the adjacent Big 5 Sporting Goods and Walgreens properties, one driveway located on SR-62 (left-out restricted) and one full-access driveway on Balsa Avenue. No new curb cuts or modifications to SR-62 are proposed. In addition to on-site improvements, the Project would contribute in-lieu fees toward future off-site roadway improvements, specifically the widening of Twentynine Palms Highway to an ultimate half-width of 67 feet, to be undertaken at a later date by the Town and the San Bernardino County Transportation Authority (SBCTA).

Development of the Project Site requires removal of existing Western Joshua Trees (*Yucca brevifolia*), which are protected under the California Endangered Species Act (CESA). Construction is anticipated to commence in 2026 and extend over a period of approximately five (5) months following issuance of an Incidental Take Permit from the California Department of Fish and Wildlife (CDFW).

The following agencies are involved in discretionary approvals and permits required for the Project:

- Town of Yucca Valley (Conditional Use Permit No. CUP 02-25; Environmental Assessment No. EA 03-25; grading and building permits)
- California Department of Fish and Wildlife, Region 6 (Incidental Take Permit [ITP] for Western Joshua Tree removal)

- State Water Resources Control Board (NPDES Construction General Permit/Stormwater Pollution Prevention Plan)
- California Department of Transportation, District 8 (Encroachment Permit, if applicable)

1.2. PURPOSE OF THE FINAL IS/MND

The Town, as the Lead Agency under the California Environmental Quality Act (CEQA), has prepared this Final Initial Study/Mitigated Negative Declaration (Final IS/MND) for the proposed Project. This document, in conjunction with the Draft Initial Study/Mitigated Negative Declaration (Draft IS/MND) dated March 2026, comprises the complete Final IS/MND for the Project.

As described in Sections 15073 and 15074 of the *State CEQA Guidelines*, the Lead Agency must consider all comments received on the Draft IS/MND before approving the Project. This Final IS/MND has been prepared to satisfy that requirement and to present the Town's responses to all comments received during the 30-day public review period.

The Final IS/MND for the Project is comprised of two parts as follows:

- Part 1: Final IS/MND (this document)
- Part 2: Draft IS/MND and Technical Appendices (March 2026)

1.3. OVERVIEW OF THE CEQA PUBLIC REVIEW PROCESS FOR THE FINAL IS/MND

In compliance with the *State CEQA Guidelines*, the Town provided opportunities for the public to participate in the environmental review process. Throughout the environmental review process, an effort was made to inform, contact, and solicit input from the public and various state, regional, and local government agencies and other interested parties regarding the proposed Project.

Notice of Intent to Adopt a Mitigated Negative Declaration

In compliance with Public Resources Code Section 21092 and *State CEQA Guidelines* Section 15073, a Notice of Intent to Adopt a Mitigated Negative Declaration (NOI) was prepared by the Town. The Town filed the NOI with the San Bernardino County Clerk of the Board of Supervisors and the State Clearinghouse (SCH No. 2026030324). The 30-day public comment period began on March 6, 2026, and ended on April 6, 2026. An electronic copy of the Draft IS/MND and all documents referenced therein were made available for public review via the State Clearinghouse (ceqanet.lci.ca.gov) and at the Town website at:

https://www.yucca-valley.org/our-town/departments/community-development/planning/land-development/cup-02-25-ea-03-25-dutch-bros

The hardcopy was available for review at the Town's Community Development Department during normal business hours at 58928 Business Center Drive, Yucca Valley, CA 92284.

The purpose of the NOI was to formally convey that the Town had prepared a Draft IS/MND for the Project and to solicit input regarding the content of the environmental analysis. The Town received three (3) comment letters during the 30-day public review period, consisting of one (1) letter from a state agency and two (2) letters from Native American tribes. Refer to **Table 2.0-1, List of Commenters on the Draft IS/MND**, in **Chapter 2.0, Comment Letters and Responses**, of this Final IS/MND for a comprehensive listing of all comments received.

Final Initial Study/Mitigated Negative Declaration and Notice of Determination

Before approving the Project, CEQA requires the Lead Agency to consider the Final IS/MND together with all comments received during the public review process and to adopt the IS/MND. The Final IS/MND will be submitted to the Town of Yucca Valley Planning Commission, and Town Council, if necessary, for consideration and adoption in connection with action on the Project.

Following Project approval, the Town is required to file a Notice of Determination (NOD) with the San Bernardino County Clerk of the Board of Supervisors and the State Clearinghouse within five (5) working days of Project approval, pursuant to *State CEQA Guidelines* Section 15075.

Organization of the Final IS/MND

The Final IS/MND consists of the following four chapters:

Chapter 1.0, Introduction: This chapter describes the purpose of the Final IS/MND, provides a summary of the Project, summarizes the public review process for the Draft and Final IS/MND, and presents the organization of the Final IS/MND.

Chapter 2.0, Comment Letters and Responses: This chapter presents all comment letters received by the Town during the 30-day public review period for the Draft IS/MND, as well as the Town's responses to all comments. All letters received during the public comment period are reproduced in full in this chapter.

Chapter 3.0, Corrections and Additions: This chapter provides text changes and revisions to the Draft IS/MND made in response to public comments received during the 30-day public review period and tribal

consultation conducted pursuant to Assembly Bill 52. Added text is shown in underline format and deleted text is shown in ~~strikethrough~~ format.

Chapter 4.0, Mitigation Monitoring and Reporting Program: This chapter presents the Mitigation Monitoring and Reporting Program (MMRP), which will be used by the Town and other responsible enforcement and monitoring agencies to ensure implementation of all Project mitigation measures. Mitigation measures are organized by environmental topic area.

2.0 COMMENT LETTERS AND RESPONSES

As discussed in **Chapter 1.0, Introduction**, the Town received three (3) comment letters during the Draft IS/MND public review period. A list of commenters on the Draft IS/MND is shown in **Table 2.0-1**. The original bracketed comment letters are provided below, followed by a numbered response to each bracketed comment. Where a letter contains multiple individual comments, each comment is separately bracketed and assigned a number, and the response is given a matching designation.

Although *State CEQA Guidelines* Section 15088 mandates written responses only for environmental impact reports (EIRs), *State CEQA Guidelines* Section 15074(b) requires the Lead Agency to consider all comments received during the public review period prior to adopting the IS/MND. The Town has prepared written responses to ensure full compliance with this requirement, to provide a complete administrative record, and to assist the decision-making body in its review. Revisions to the Draft IS/MND resulting from these comments are detailed in **Chapter 3.0, Corrections and Additions**.

Table 2.0-1
List of Commenters on the Draft IS/MND

Letter Number	Organization	Commenter Name	Letter Date
1	Ft. Yuma Quechan Indian Tribe	H. Jill McCormick, M.A., Historic Preservation Office	March 6, 2026
2	Yuhaaviatam of San Manuel Nation	Raylene Borrego, Cultural Resources Technician	March 6, 2026
3	California Department of Transportation District 8, Division of Transportation Planning	Janki Patel, Branch Chief, Local Development Review	April 6, 2026

Comment Letter 1

Outlook

FW: [EXTERNAL]:Notice of Intent to Adopt an IS/MND – Yucca Valley Dutch Bros Project

From: Jill Mccormick <historicpreservation@quechantribe.com>
Sent: Friday, March 6, 2026 8:34 AM
To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Subject: Re: [EXTERNAL]:Notice of Intent to Adopt an IS/MND – Yucca Valley Dutch Bros Project

Good morning,
This email is to inform you that the Historic Preservation Office of the Ft. Yuma Quechan Tribe does not wish to provide comments on this project. We defer to the local Tribes and support their determinations on this matter. 1

Jill

H. Jill McCormick, M.A.
Historic Preservation Office
Ft. Yuma Quechan Indian Tribe
P.O. Box 1899
Yuma, AZ 85366-1899
Office: 760-919-3631
Cell: 928-920-6521

Letter 1 **Ft. Yuma Quechan Indian Tribe**
H. Jill McCormick, M.A.
P.O. Box 1899
Yuma, AZ 85366
March 6, 2026

Response 1-1

The Tribe stated that it does not wish to provide comments on the proposed Project and defers to the determinations of local tribes. A formal AB 52 consultation was conducted with tribes traditionally and culturally affiliated with the Project area, and that tribal input received during that process is reflected in the Tribal Cultural Resources analysis and mitigation measures set forth in Section 3.3.18 of the IS/MND. Because this correspondence is informational in nature and does not raise any substantive issues regarding the adequacy of the environmental analysis in the Draft IS/MND, no revisions to the document are warranted in response to this comment.

Comment Letter 2

Outlook

FW: Feedback for IS/MND: Yucca Valley Dutch Bros Project, Town of Yucca Valley, San Bernardino county; [CIT-YV-2025-2]

From: Raylene Borrego <Raylene.Borrego@sanmanuel-nsn.gov>
Sent: Friday, March 6, 2026 1:24 PM
To: Jared Jerome <jjerome@YUCCA-VALLEY.ORG>
Cc: Kristen Tuosto <Kristen.Tuosto@sanmanuel-nsn.gov>
Subject: Feedback for IS/MND: Yucca Valley Dutch Bros Project, Town of Yucca Valley, San Bernardino county; [CIT-YV-2025-2]

Hello Jared,

Thank you for sending the NOI to adopt MND, YSMN appreciates the opportunity to review IS/MND.

I just reviewed the IS/MND and noticed that Agua Caliente requested tribal monitoring but I didn't see any mitigation measures mentioning there will be monitoring. Will they still be monitoring the project?

1

Best,
Raylene

Raylene Borrego
Cultural Resources Technician
Raylene.Borrego@sanmanuel-nsn.gov
O:(909) 864-8933 x 50-2035
M:(909) 737-3349
26569 Community Center Dr Highland, California 92346

YUHAAVIATAM
OF SAN MANUEL NATION

Letter 2 **Yuhaaviatam of San Manuel Nation**
Raylene Borrego
26569 Community Center Drive
Highland, CA 92346
March 6, 2026

Response 2-1

The commenter is correct that the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic Preservation Office (THPO) requested tribal monitoring during ground-disturbing activities. Specifically, in its December 3, 2025, consultation letter, the ACBCI THPO stated that it requires "the presence of an approved Cultural Resource Monitor from a Consulting Tribe during any ground disturbing activities," with a directive to halt and notify a qualified archaeologist if buried cultural deposits are encountered. The ACBCI further noted that the mitigation measures in the Draft IS/MND were otherwise sufficient. The original Draft IS/MND's **Mitigation Measure MM TCR-1** addressed notification and data-sharing requirements but did not explicitly require the presence of a tribal cultural resource monitor during ground-disturbing activities. This omission has been identified and corrected.

In response to the ACBCI's consultation requests dated October 10 and December 3, 2025, and the Yuhaaviatam of San Manuel Nation's (YSMN) public comment received during the 30-day public review period, **MM TCR-1** has been revised in the Final IS/MND to require retention of an approved ACBCI THPO cultural resource monitor during all ground-disturbing activities, with the YSMN serving as the monitoring tribe if ACBCI is unable to confirm availability or declines to provide a monitor within the required notice period. Both tribes shall be notified in writing within 24 hours of any discovery of pre-contact cultural resources or tribal cultural resources.

Accordingly, the second threshold checklist question analysis for tribal cultural resources and **MM TCR-1** are revised on pages 101-102 to read as follows:

> **Less than Significant with Mitigation Incorporated.** As previously discussed, an NAHC SLF search was negative for the Project Site. However, through the Assembly Bill 52 consultation process, the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic Preservation Office (THPO) and YSMN identified the potential for undiscovered subsurface tribal cultural resources to be present in the Project area. ~~Agua Caliente Band of Cahuilla Indians requested that a tribal monitor be present during ground-disturbing activities. YSMN indicated that while they do not currently require a monitor, they requested specific mitigation measures be implemented to address the treatment of any inadvertent discoveries. To address the potential for the Project to impact unknown subsurface TCRs that may be significant under PRC Section 5024.1(c), the Town has agreed to incorporate the tribes' requested protocols.~~ In its consultation letters dated October 10 and December 3, 2025, the ACBCI THPO

requested that an approved cultural resource monitor from a consulting tribe be present during all ground-disturbing activities, and that a halt-and-notify protocol be implemented in the event of an inadvertent discovery. The ACBCI further reviewed the Project and found the standard mitigation measures to be otherwise sufficient. During the 30-day public review period, the YSMN submitted a comment noting that the Draft IS/MND's **Mitigation Measure MM TCR-1** did not explicitly require the presence of a tribal monitor during ground-disturbing activities, notwithstanding ACBCI's consultation request. In response to this comment and the ACBCI's consultation requests, **MM TCR-1** has been revised in this Final IS/MND to require retention of an approved ACBCI THPO cultural resource monitor during all ground-disturbing activities, with YSMN serving as the designated monitoring tribe if ACBCI is unable to confirm availability or declines to provide a monitor within the required notice period. The revised **MM TCR-1** is set forth in **Chapter 3.0, Corrections and Additions**, of this Final IS/MND and supersedes the version presented in the Draft IS/MND.

Implementation of revised **Mitigation Measures MM TCR-1** and **Mitigation Measure MM TCR-2** ensures that: (1) a tribal cultural resource monitor from a consulting tribe will be present during all Project-related ground-disturbing activities; (2) ground-disturbing activities will be halted immediately in the vicinity of any inadvertent discovery of potential pre-contact cultural resources or tribal cultural resources; (3) both the ACBCI THPO and the YSMN Cultural Resources Management Department will be notified in writing within 24 hours of any such discovery; and (4) the significance of any find will be determined jointly by the tribal monitor, a qualified archaeologist, and the Lead Agency, with a Cultural Resources Monitoring and Treatment Plan prepared if the find is determined to be significant. ~~if any TCRs are encountered during construction, they will be identified, evaluated, and treated in coordination with the consulting tribes.~~ Therefore, impacts to potential TCRs would be reduced to a less than significant level.

Mitigation Measures:

MM TCR-1: ~~The Yuhaaviatam of San Manuel Nation (YSMN) Cultural Resources Management Department and the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic Preservation Office shall be contacted regarding any pre-contact cultural resources discovered during Project implementation. Information regarding the nature of the find shall be provided to the tribes to allow Tribal input with regard to significance and treatment. If the find is deemed significant, a Cultural Resources Monitoring and Treatment Plan shall be prepared in coordination with the consulting tribes, and all subsequent finds shall be subject to this Plan. If significant Tribal Cultural Resources are found, the consulting tribes may elect to place a tribal monitor on site for the duration of the ground-disturbing activities in the vicinity of the find.~~

Prior to the commencement of ground-disturbing activities, the Applicant shall provide written notice to the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic Preservation Office (THPO) at least 15 business days prior to the start of ground-disturbing activities to retain a qualified ACBCI cultural resource monitor. If ACBCI does not confirm availability in writing or declines to provide a monitor within 10 business days of receiving such written notice, the Applicant shall provide written notice to the Yuhaaviatam of San Manuel Nation (YSMN) Cultural Resources Management Department offering the monitoring opportunity. If YSMN similarly does not confirm availability in writing within 10 business days of receiving such notice, the Applicant shall document its good-faith outreach efforts to both tribes in writing and provide such documentation to the Town of Yucca Valley prior to the commencement of ground-disturbing activities. The retained tribal monitor shall be present on-site during all project-related ground-disturbing activities.

In the event that potential pre-contact cultural resources or Tribal Cultural Resources are encountered during ground-disturbing activities, the tribal monitor shall have the authority to direct an immediate halt to all ground-disturbing activities within a 60-foot buffer of the find, consistent with MM CUL-1. The Applicant and project contractor shall comply with any stop-work directive issued by the tribal monitor.

Upon discovery of any potential pre-contact cultural resources or Tribal Cultural Resources, the Applicant shall notify both the ACBCI THPO and the YSMN Cultural Resources Management Department in writing within 24 hours of the discovery. Information regarding the nature of the find shall be provided to both tribes to allow tribal input with regard to significance and treatment. The significance of the find shall be determined jointly by the tribal monitor, a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards, and the Lead Agency. If the find is determined to be significant, a Cultural Resources Monitoring and Treatment Plan shall be prepared in coordination with the consulting tribe(s) prior to the resumption of any ground-disturbing activities in the vicinity of the find, and all subsequent finds shall be subject to this Plan. If significant Tribal Cultural Resources are found, the consulting tribe that did not serve as the primary monitor at the start of ground-disturbing activities (whether ACBCI or YSMN, depending on which tribe is actively monitoring) may elect to place a tribal monitor on-site for the duration of the ground-disturbing activities in the vicinity of the find.

The revision to **MM TCR-1** directly addresses the YSMN's concern by ensuring that tribal monitoring is explicitly required as a Project condition, not merely as a response to an unanticipated discovery. The revised measure also formally recognizes the YSMN's role in the Project's cultural resource protection program, both as the designated fallback monitoring tribe and as a party with independent notification rights and co-determination authority upon any discovery of pre-contact cultural resources or tribal cultural resources.

California Department of Transportation

DISTRICT 8
464 WEST 4TH STREET
SAN BERNARDINO CA, 92401
(909) 963-8604
www.dot.ca.gov

April 06, 2026

Route & Postmile: SR-62/13.481
Cross Street: SR-62 & Balsa Ave.
GTS ID: 39405

Town of Yucca Valley
Planning Division
Attn: Jared Jerome
58928 Business Center Drive
Yucca Valley, CA 92284

Subject: Comments on the Initial Study Mitigated Negative Declaration (IS/MND) for Yucca Valley Dutch Bros Project.

Dear Jared Jerome,

Thank you for including The California Department of Transportation (Caltrans), District 8, Local Development Review (LDR) branch in the review process. We are committed to ensuring that impacts to the State's multimodal transportation system and to our natural environment are identified and mitigated to support a safe, sustainable, integrated and efficient transportation system.

The 1.01-acre vacant site located at 58121 Twentynine Palms Highway (APN: 0601-416-05) is in a commercial corridor, bordered by retail stores and nearby residential areas. The project site is designated Mixed Use (MU) and zoned Mixed-Use Commercial (C-MU) by the Town's General Plan, with surrounding zoning consisting of Commercial (C-N) to the north and Residential (R-S-2) to the south and east.

The proposed project involves the construction and operation of an approximately 1,025 square-foot Dutch Bros Coffee shop featuring dual-lane drive-through designed to accommodate up to 23 vehicles, along with 18 surface parking spaces. Development of the site would require removal of the existing Western Joshua Street alignment. Site access would be provided via an existing shared driveway serving the adjacent Big 5 Sporting Goods and Walgreen properties, with internal circulation connecting to these neighboring uses. In addition to the site improvements, the project would contribute in-lieu fees toward future off-site roadway improvements, specifically the widening of Twentynine Palms Highway to an ultimate half-width of 67 feet, to be undertaken at a later date by the Town and The San Bernardino County of Transportation Authority. 1

The following comments are based on our review of the Initial Study Mitigated Negative Declaration (IS/MND) and related environmental Documents for the Yucca Valley Dutch Bros

Project.

Traffic Operations:

Local Transportation Assessment:

1. Please include a Horizon Year study scenario for all analysis (refer to San Bernardino County Transportation Impact Study Guidelines). 1
2. Please include site access driveway on State Route 62 (Twentynine Palms Highway) in all Traffic Analysis documents. 2
3. Opening Year Cumulative 2007 Conditions Traffic Volume formula appears to be missing on Page 28 of Appendix E - LTA PDF. 3
4. Please correct formatting on pages 43 and 44 of Appendix E – LTA PDF displaying the project Regional Location and Preliminary Site/Utility Plan as they do not have clear imagery. 4

Safety Review:

5. The proposed project will generate additional trips on the Highway System, we recommend preparing a traffic safety review as a stand-alone report for the proposed land use project. Refer to the Local Development Review (LDR) Safety Review Practitioners Guidance in February 2024.
   Please follow the steps below:
   a. To request crash data on the State Highway System, please submit your request via our California Public Records Act (CPRA) portal following the link (Support Home Page (mycusthelp.com)). 5
   b. Please analyze the existing crash data and discuss the project's impact on safety as needed.
   c. Please provide appropriate countermeasures to mitigate/ reduce project's safety impact if applicable.

Equitable Access:

If any Caltrans facilities are impacted by the project, they must comply with the American Disabilities Act (ADA) Standards upon project completion. Additionally, the project must ensure the maintenance of bicycle and pedestrian access throughout the construction phase. These access considerations align with Caltrans' equity mission to provide a safe, sustainable, and equitable transportation network for all users. 6

Caltrans Encroachment Permit:

Please be advised that any permanent work or temporary traffic control that encroaches onto Caltrans' Right-of-Way (R/W) requires a Caltrans-issued encroachment permit. 7

For information regarding the Encroachment Permit application and submittal requirements, contact: 8

Caltrans Office of Encroachment Permits
464 West 4th Street, Basement, MS 619
San Bernardino, CA 92401-1400
(909) 383-4526
D8.E-permits@dot.ca.gov
https://dot.ca.gov/programs/traffic-operations/ep
Important Note: All permit applications must now be submitted through our CEPS Online Portal at: https://ceps.dot.ca.gov/

Please be advised that LDR's point of contact role will conclude upon the completion of the development entitlement process. Once the project is entitled, the Encroachment Permit Office will serve as the primary point of contact moving forward.

Thank you again for including Caltrans in the review process. Should you have any questions regarding this letter, or for future notifications and requests for review of new projects, please email LDR-D8@dot.ca.gov or call 909-963-8604.

Sincerely,

Janki Patel

Janki Patel
Branch Chief - Local Development Review
Division of Transportation Planning
Caltrans District 08

Letter 3 **California Department of Transportation, District 8**
Janki Patel
464 West 4th Street
San Bernardino, CA 92401
April 6, 2026

Response 3-1

The commenter summarizes the Project's location, existing land use designation, zoning, proposed site characteristics, and planned off-site roadway improvement contributions, which is consistent with the Project description in Section II of the Draft IS/MND. The comment references the removal of the "Western Joshua Street alignment." However, this is understood to refer to the removal of existing Western Joshua Trees located on the Project Site, which is addressed in the IS/MND under Biological Resources (Section 3.3.4) and is subject to an Incidental Take Permit from the California Department of Fish and Wildlife (CDFW). No public street alignment is proposed for removal as part of the Project.

Regarding the request to include a Horizon Year study scenario for all analysis pursuant to the San Bernardino County Transportation Impact Study (TIS) Guidelines, the Project's LTA (Appendix E of the IS/MND) was prepared in accordance with the Traffic Scoping Agreement approved by the Town, which did not require a Horizon Year analysis. As documented in Section 1.0 and Appendix A of the LTA, the analysis scope, including study intersections and required scenarios, was established through a Traffic Scoping Memorandum reviewed and approved by Town staff prior to preparation of the LTA. The approved scope defined the required scenarios as: (1) Existing Conditions; (2) Opening Year 2027 Cumulative Conditions; and (3) Opening Year 2027 Cumulative with Project Conditions.

A Horizon Year analysis is further not warranted given the *de minimis* traffic impact of the proposed Project. As documented in Table 3.1 of the LTA, after application of ITE pass-by reduction factors, the Project would contribute only 35 net new daily trips to the adjacent roadway network, with 8 net new AM peak hour trips and 2 net new PM peak hour trips. Even under the conservative approach of not applying pass-by reductions to the intersection LOS analysis, the addition of Project traffic does not cause any study intersection to degrade in LOS or exceed applicable significance thresholds. All three study intersections operate at LOS B or C under Existing, Opening Year Cumulative, and Opening Year Cumulative with Project conditions (LTA, Table ES.1). Considering the Project's negligible trip generation and the absence of any significant traffic impacts under the Opening Year Cumulative scenario, the Project would not cause or contribute to deficiencies at any study intersection under a Horizon Year scenario.

Moreover, and most critically, pursuant to Senate Bill 743 and *State CEQA Guidelines* Section 15064.3, vehicle delay and Level of Service (LOS) are no longer considered significant environmental impacts under CEQA. The required metric for evaluating transportation impacts under CEQA is Vehicle Miles Traveled

(VMT). As documented in Section 3.3.17 (Transportation) of the Draft IS/MND, the Project generates a net increase of only 35 daily trips and screened out of a detailed VMT analysis entirely. Because LOS is not a CEQA significance criterion and the Project screens out for VMT, a Horizon Year LOS scenario is not required for CEQA compliance. No revisions to the IS/MND or LTA are warranted in response to this comment.

Response 3-2

The commenter requests to include the existing site access driveway on State Route 62 (SR-62/Twentynine Palms Highway) in all traffic analysis documents. The driveway is already addressed in the LTA, and its exclusion from the quantitative intersection LOS analysis was intentional, conservative, and consistent with the Town-approved Traffic Scoping Agreement.

As documented in Sections 1.0, 1.1, and 6.1 of the LTA, the Project Site is served by two existing driveways: (1) a full-access, stop-controlled driveway on Balsa Avenue, shared with the adjacent Walgreens property; and (2) a left-out restricted driveway on SR-62 (Twentynine Palms Highway), shared with the adjacent Big 5 Sporting Goods property. Both driveways are identified and described in the LTA. The SR-62 driveway is depicted in the Project Site plan (Figure 1.2 of the LTA) and is referenced in the Site Access and Circulation chapter (Section 6.1) in the context of the existing shared shopping center access configuration.

As detailed in Section 1.0 of the LTA, the study area and specific intersections evaluated were established through a Traffic Scoping Memorandum reviewed and approved by the Town prior to preparation of the LTA. The approved scope focused the analysis on the full-access, stop-controlled driveway along Balsa Avenue to provide a conservative, worst-case assessment of localized intersection operations. By routing all Project trips through the Balsa Avenue driveway the LTA captured the maximum potential delay and queuing at the site's most heavily utilized access point, since the Balsa Avenue driveway is the access point accommodating a greater number of turning movement conflicts, including left turns out, compared to the right-out-only driveway to SR-62. Including the SR-62 driveway in the quantitative LOS analysis would result in a redistribution of the Project's 35 net new daily trips between the two access points, reducing (not increasing) traffic volumes and delay at the Balsa Avenue/SR-62 intersection (Intersection 1), which already operates at an acceptable LOS B (AM) and LOS C (PM) under all analyzed scenarios (LTA, Table ES.1). No new significant impact findings would result.

Furthermore, as discussed in Response to Comment 3-1, intersection LOS and operational delay, which includes localized driveway operations, are no longer considered significant environmental impacts under CEQA pursuant to Senate Bill 743 and *State CEQA Guidelines* Section 15064.3. The Project's transportation impacts were properly evaluated using the required VMT metric, for which the Project screened out of detailed analysis due to its negligible trip generation. The intersection operational analysis provided in the

LTA is for local planning and informational purposes only. Because driveway operational analysis is not a CEQA requirement and the LTA was prepared in strict accordance with the Town-approved Traffic Scoping Agreement, no revisions to the IS/MND or LTA are warranted in response to this comment.

Response 3-3

The commenter states there is a missing formula for "Opening Year Cumulative 2007 Conditions" traffic volumes on page 28 of the LTA. The Town understands that the commenter is referring to Opening Year 2027 Cumulative Conditions, as 2007 is a historical year and is not analyzed in the LTA.

The traffic volume formula is not missing from the LTA. The methodology and equations used to develop the Opening Year 2027 Cumulative Background Conditions traffic volumes are fully provided in Section 5.1 (Opening Year 2027 Cumulative Roadway Network and Traffic Volumes) on page 20 of the LTA (Appendix E of the IS/MND). That section presents the ambient growth formula and supporting assumptions. An ambient annual growth rate of three (3) percent per year was applied over two (2) years, yielding a total growth factor of six (6) percent, which was applied to existing traffic volumes to derive the Opening Year 2027 Cumulative volumes displayed in Figure 5.1 of the LTA.

The commenter may have been looking at a different section or an appendix attachment as page 28 of the LTA corresponds to Section 5.5.1 (Intersection Analysis) and Section 5.6 (Determination of the Need for Off-Site Improvements), which present Table 5.3, which is the intersection LOS results for the Opening Year 2027 Cumulative with Project scenario, rather than the formula presentation in Section 5.1. No revisions to the IS/MND or LTA methodology are warranted in response to this comment.

Response 3-4

The Town acknowledges the commenter's observation regarding the image clarity of the Project Regional Location map (Figure 2) and Project Site Plan (Figure 2) as they appear on pages 43 and 44 of the publicly circulated LTA PDF.

The Town clarifies that the original graphics produced for the LTA by CR Associates (January 2026) were clear and legible at full resolution. The degraded image quality observed by Caltrans was an inadvertent artifact of the Optical Character Recognition (OCR) and PDF optimization process applied to the document prior to electronic submittal. This processing is required to ensure document accessibility and compliance with the State Clearinghouse formatting protocols for electronic document submittal via CEQAnet and this same file version was used for the Town's webpage.

To resolve this administrative formatting issue, a clean, high-resolution version of the LTA with corrected imagery will replace the draft appendix in the Final IS/MND. Moreover, these two figures are provided at

the end of this chapter for visual reference. Because this is solely a document reproduction issue and does not alter the data, methodology, or conclusions of the LTA or IS/MND, no revisions are warranted in response to this comment.

Response 3-5

The commenter includes Safety Review recommendations and acknowledges their agency's commitment to ensuring safe operations on the State Highway System. The Town has carefully considered the recommendation to prepare a standalone traffic safety review pursuant to Caltrans' Local Development Review (LDR) Safety Review Practitioners Guidance (February 2024).

Under CEQA, specifically Appendix G of the *State CEQA Guidelines*, a project may have a significant transportation safety impact if it would "substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)." As evaluated in Section 3.3.17 (Transportation) of the Draft IS/MND, the proposed Project does not include any alterations to the geometric design of the surrounding public roadway network, nor does it introduce incompatible uses to the established commercial corridor. The Project would utilize existing driveways that currently serve the adjacent commercial uses, and no new access points or geometric modifications to SR-62 are proposed. As documented in Sections 1.1 and 6.1 of the LTA, the existing left-out restricted driveway on SR-62 serving the shopping center predates the Project and would remain unchanged.

Furthermore, as established in the LTA and discussed in Responses to Comments 3-1 and 3-2, the Project would generate a *de minimis* amount of traffic, that is, only 35 net new daily trips, with 8 net new trips in the AM peak hour and 2 net new trips in the PM peak hour. The Project's conservative traffic analysis routes all net new trips through the Balsa Avenue driveway, assigning zero net new project trips to the SR-62 driveway or SR-62 mainline. This nominal increase in vehicle trips does not constitute substantial evidence that the Project would substantially exacerbate any existing safety hazard or create a new safety hazard on the State Highway System, and a causal nexus between the proposed Project and changes in SR-62 crash frequency or severity cannot be established.

Regarding Step (a) — Crash Data Request: The Town acknowledges Caltrans' direction to request crash data via the California Public Records Act (CPRA) portal. As noted above, the Project proposes no new access points, curb cuts, or geometric modifications to SR-62. Given the absence of any SR-62 design changes and the assignment of zero net new Project trips to the state highway, a crash data request is not warranted for this Project.

Regarding Step (b) — Crash Data Analysis: Since the Project does not alter SR-62 access, geometry, or operations, and does not add meaningful traffic volumes to the state highway, no causal relationship

between the proposed Project and changes in SR-62 safety conditions can be established. A crash data analysis would not yield findings that alter the IS/MND's less than significant determination for transportation hazards.

Regarding Step (c) — Safety Countermeasures: Since no Project-related safety impacts on the State Highway System have been identified, no Project-specific safety countermeasures are warranted. The Project does, however, incorporate internal pedestrian and bicycle safety features, including ADA-compliant pedestrian pathways, as discussed in Section 4.2 of the LTA.

The LDR Safety Review Practitioners Guidance represents Caltrans' internal advisory guidance and does not establish mandatory CEQA significance thresholds or procedural requirements for the Town as Lead Agency. Considering the Project's negligible trip generation, its reliance on existing access points, and the absence of any proposed geometric alterations to the SR-62 right-of-way, a standalone traffic safety report is not warranted for CEQA compliance. No revisions to the IS/MND or LTA are warranted in response to this comment.

Response 3-6

The commenter addresses equitable access, compliance with ADA, and the maintenance of bicycle and pedestrian access during the construction phase. The Town confirms that the proposed Project is consistent with ADA standards and applicable accessibility requirements, and that bicycle and pedestrian access would be maintained throughout construction to the extent feasible, as further detailed below.

Regarding ADA compliance, compliance with ADA standards and the accessibility requirements of the California Building Code is a mandatory regulatory requirement for all new commercial development. The proposed Project does not impact any existing Caltrans facilities. The Project Site is located south of SR-62 (Twentynine Palms Highway) and does not propose any new curb cuts, driveway modifications, or permanent improvements within the Caltrans right-of-way. The Town will verify ADA compliance through the standard building plan check and permitting process prior to the issuance of a certificate of occupancy. To the extent any incidental construction activity occurs within or immediately adjacent to the Caltrans right-of-way, the Project would be required to comply with ADA standards as a condition of any required Caltrans Encroachment Permit. Because ADA compliance is a statutory building code requirement and does not constitute a physical environmental impact under CEQA, no further environmental analysis is required.

Regarding pedestrian and bicycle access during construction, the Project applicant would be required by the Town to ensure the safe routing of vehicular, pedestrian, and bicycle traffic around the active construction zone to maintain continuous and safe access throughout the construction phase. As

documented in Section 2.3.9 of the IS/MND, all construction equipment and staging would occur within the boundaries of the Project Site. No construction staging or activity is proposed within the SR-62 right-of-way that would disrupt existing pedestrian or bicycle facilities along SR-62, which include sidewalks on both sides of the highway west of Balsa Avenue and an existing Class III bicycle facility running east-west along the corridor, as documented in Section 4.2 of the LTA. To the extent that construction activities or temporary traffic control measures encroach into the SR-62 right-of-way, the Project would be subject to Caltrans Encroachment Permit requirements, which would provide Caltrans with direct oversight of construction phase access within its jurisdiction.

The proposed Project also incorporates internal pedestrian and bicycle access features, including ADA-compliant pathways connecting the building's walk-up window and parking areas to existing off-site sidewalk facilities, continental crosswalks throughout the Project Site to enhance driver awareness, and a bicycle rack to support non-motorized access, as documented in Section 4.2.1 of the LTA.

Because these comments address standard regulatory compliance and construction management protocols rather than the adequacy of the CEQA environmental analysis, no revisions to the IS/MND are warranted in response to this comment.

Response 3-7

The commenter advises that any permanent work or temporary traffic control encroaching onto the Caltrans right-of-way requires a Caltrans-issued Encroachment Permit. This requirement is noted.

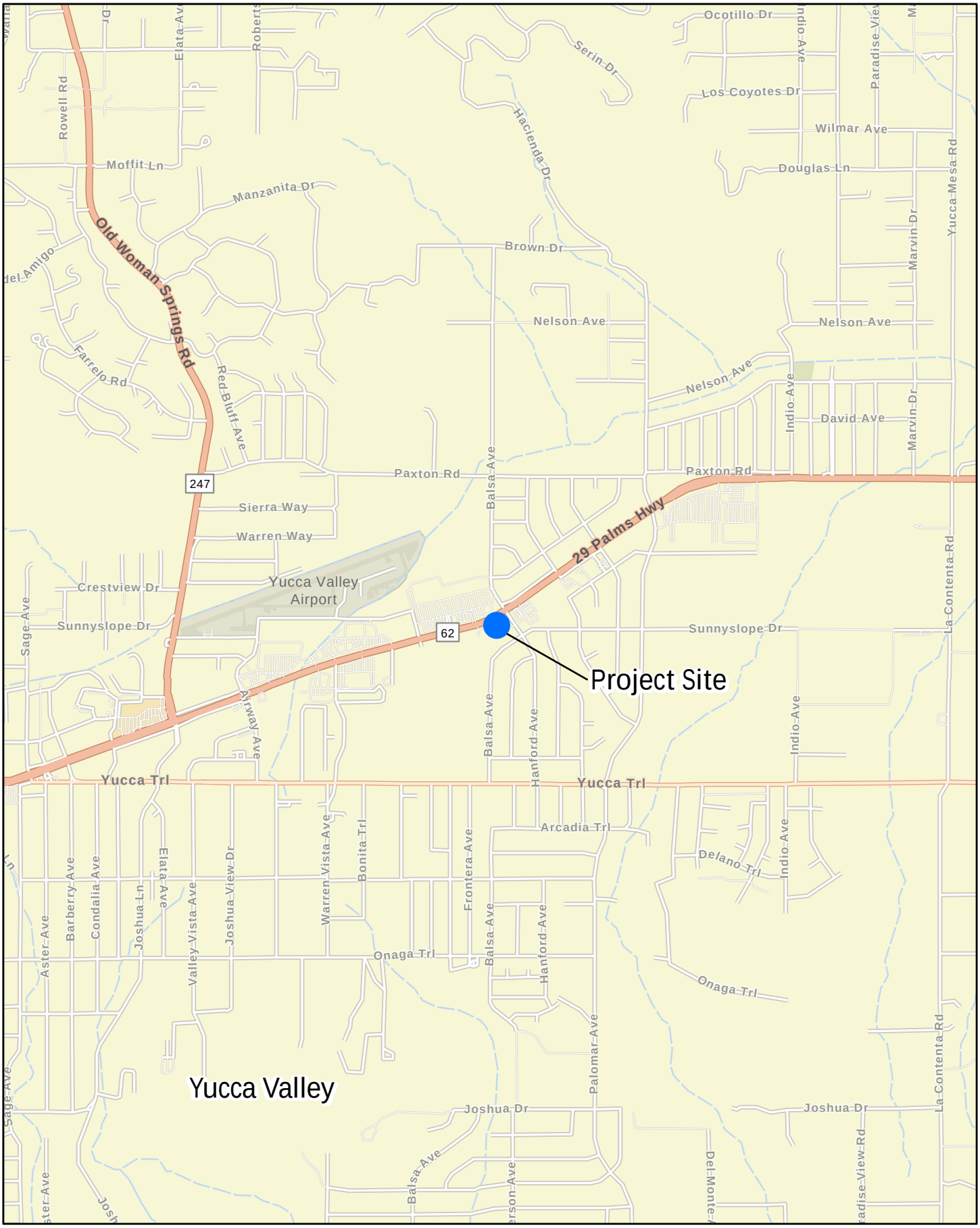
As discussed above, the proposed Project does not include any permanent improvements, new access points, or physical modifications within the SR-62 (Twentynine Palms Highway) right-of-way. The Project would utilize the existing driveway configuration, and the existing restricted driveway on SR-62 shared with the adjacent Big 5 Sporting Goods property would remain unchanged. However, the Town acknowledges that if construction activities or temporary traffic control measures, such as the placement of advanced warning signs, necessitate temporary encroachment into the Caltrans right-of-way, the Project applicant would be required to obtain a Caltrans-issued Encroachment Permit prior to the commencement of those specific activities.

The Project Applicant would be advised to coordinate directly with the Caltrans District 8 Office of Encroachment Permits via the CEPS Online Portal, as directed in the comment. Because this comment outlines a standard regulatory permitting procedure and does not raise a substantive issue regarding the adequacy of the CEQA environmental analysis, no revisions to the IS/MND are warranted in response to this comment.

Response 3-8

The Town acknowledges the contact information provided for the Caltrans District 8 Office of Encroachment Permits and notes the requirement that all permit applications must be submitted through the CEPS Online Portal. As discussed in Response to Comment 3-7, the Project Applicant would be advised of these procedures and directed to coordinate with the Encroachment Permit Office for any temporary or permanent encroachments into the Caltrans right-of-way. The Town acknowledges the LDR branch's role as primary point of contact would conclude upon completion of the entitlement process, at which time the Encroachment Permit Office would assume that role.

These concluding remarks are informational and administrative in nature and does not raise environmental issues or challenge the adequacy of the IS/MND; accordingly, no revisions to the document are warranted in response to this comment.



Yucca Valley Dutch Bros Project
Traffic Scoping Memorandum

C+R

Figure 1
Project Regional Location

Know what's below.
Call before you dig.
Dial 811

DUTCH BROS. COFFEE - CA3714 - YUCCA VALLEY, CA
PRELIMINARY SITE AND UTILITY PLAN

PROJECT DATA

NAME: DUTCH BROS COFFEE – CA3714 – YUCCA VALLEY, CA

PARCEL AREA: 44,190 SF (1.014 ACRES)

GROSS PROJECT AREA: 48,127 SF (1.1 ACRES)

PARCEL #: 0601-416-05

ZONE: MIXED USE COMMERCIAL (C-MU)

GENERAL PLAN DESIGNATION: COMMERCIAL

QUEING: 23 VEHICLES

PARKING:
REQUIRED: 4 SPACES
PROVIDED: 18 SPACES
(3 FUTURE EVCS)
(1 ACCESSIBLE EVCS)
(1 ACCESSIBLE)
(13 TYPICAL)

TRASH ENCLOSURE: 12' X 24'

PROPOSED GROUND COVER SUMMARY:

BUILDINGS:	1,025 SF	(2.1%)
TRASH ENCLOSURE:	288 SF	(0.6%)
PAVING (CONCRETE, ASPHALT, CURBS):	26,377 SF	(54.8%)
WALKWAYS:	3,389 SF	(7.1%)
LANDSCAPE:	10,350 SF	(21.5%)
EXISTING PAVEMENT TO REMAIN:	3,890 SF	(8.1%)
EXISTING LANDSCAPE TO REMAIN:	2,808 SF	(5.8%)
	48,127 SF	(100.0%)

EASEMENT NOTES

1. 5' EASEMENT(S) FOR ELECTRIC AND TELEPHONE FACILITIES AND RIGHT INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO CALIFORNIA WATER & TELEPHONE COMPANY RECORDED MARCH 30, 1962, IN BOOK 5672, PAGE 78, OFFICIAL RECORDS.
2. MATTERS CONTAINED IN THAT CERTAIN DOCUMENT ENTITLED RECIPROCAL EASEMENT AGREEMENT DATED OCTOBER 3, 2000, EXECUTED BY JOSEPH A. SIROLA AND THOMAS A KELLER, III ET AL RECORDED OCTOBER 20, 2000, RECORDING NO. 20000381189, OFFICIAL RECORDS.
3. EASEMENT(S) FOR UNDERGROUND COMMUNICATION FACILITIES AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO VERIZON CALIFORNIA INC., A CALIFORNIA CORPORATION RECORDED FEBRUARY 1, 2002, RECORDING NO. 20020054622, OFFICIAL RECORDS.
4. 20' EASEMENT(S) FOR SEWER EASEMENT AND RIGHTS INCIDENTAL THERETO, AS GRANTED IN A DOCUMENT TO HI DESERT WATER DISTRICT, A PUBLIC AGENCY OF THE STATE OF CALIFORNIA RECORDED AUGUST 21, 2015, RECORDING NO. 2015-0360067, OFFICIAL RECORDING.

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA AND IS DESCRIBED AS FOLLOWS:

PARCEL ONE:

PARCEL 4 OF PARCEL MAP NO. 15502, IN THE TOWN OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AS PER MAP FILED IN BOOK 193, PAGES 98 AND 99 OF PARCEL MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.

PARCEL TWO:

A NON-EXCLUSIVE EASEMENT FOR REASONABLE PEDESTRIAN AND VEHICULAR ACCESS, INGRESS AND EGRESS AS SET FORTH AND DEFINED AS EASEMENT DRIVEWAY IN RECIPROCAL EASEMENT AGREEMENT RECORDED OCTOBER 20, 2000, INSTRUMENT NO. 2000-381189, OF OFFICIAL RECORDS

APN: 0601-416-05

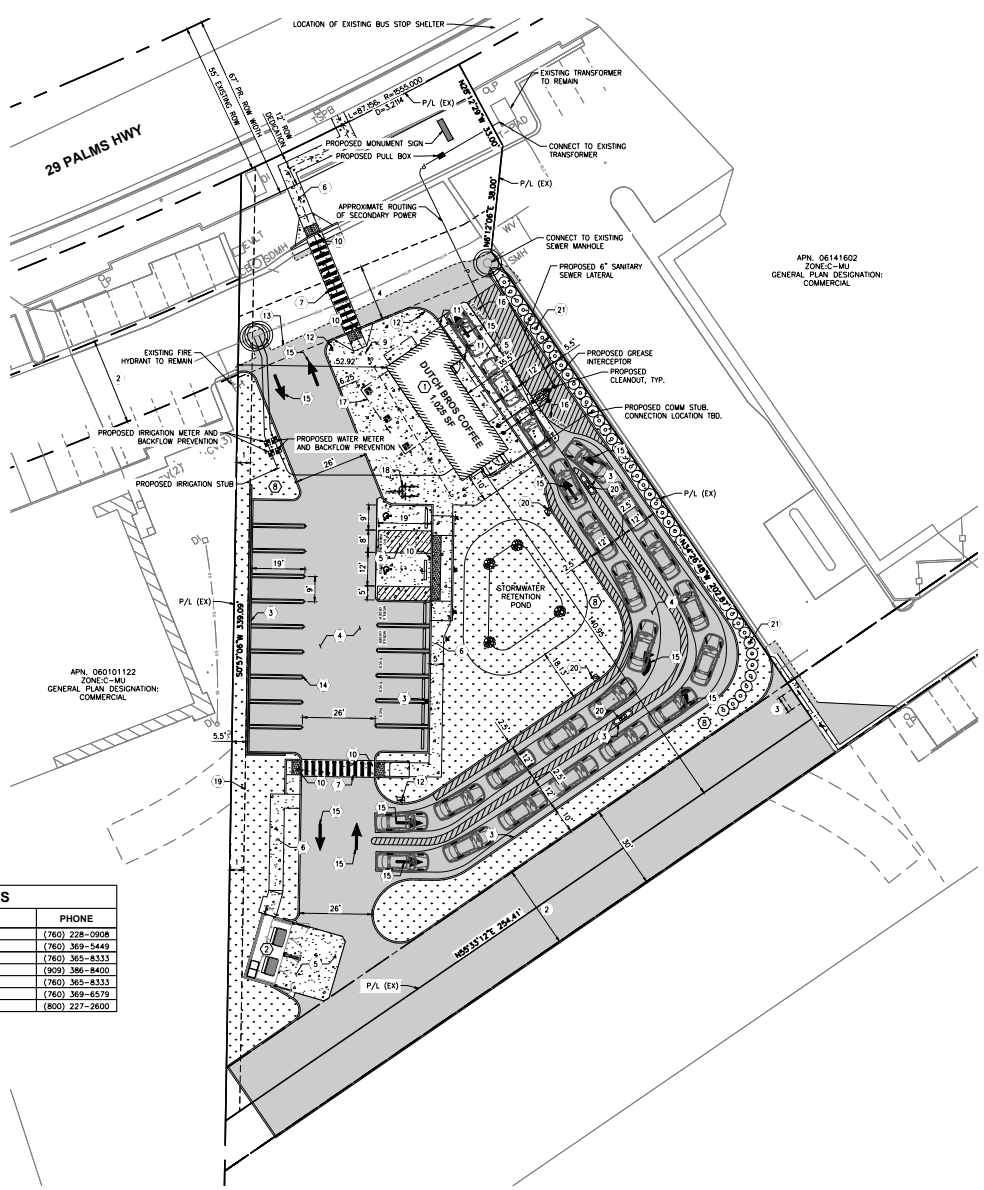
THE LAND SHOWN IN THIS SURVEY IS THE SAME AS THAT DESCRIBED IN FIDELITY NATIONAL TITLE COMPANY, COMMITMENT NO. FCH2400711NT WITH AN EFFECTIVE DATE OF AUGUST 22, 2024 AT 7:30 AM

UTILITY REPRESENTATIVES

UTILITY	REPRESENTATIVES	PHONE
GAS	THE GAS COMPANY	(760) 228-0908
ELECTRICITY	SOUTHERN CALIFORNIA EDISON	(760) 369-5449
WATER	HI-DESERT WATER DISTRICT	(760) 365-8333
FIRE	SAN BERNARDINO COUNTY FIRE	(909) 386-8400
SEWER	HI-DESERT WATER DISTRICT	(760) 365-8333
DRAINAGE	TOWN OF YUCCA VALLEY	(760) 369-6579
U.S.A	N/A	(800) 227-2600

SEWAGE DISPOSAL NOTE

ONSITE PRIVATE GRAVITY SEWER SYSTEMS
CONNECTION TO PUBLIC SEWERS



N

SCALE: 1"=20'

OWNER

CONTACT: CHRIS PETO
5TH STREET DEVELOPMENT, LLC
1011 CAMINO DEL MAR #258
DEL MAR, CA 92014
TEL: (310) 346-0379
EMAIL: CPETO@HALFERTY.COM

ENGINEER

BARGHAUSEN CONSULTING ENGINEERS, LLC
18215 72ND AVE. SOUTH
KENT, WA 98032
TEL: (425) 251-6222
CONTACT: HAL P. GRUBB, P.E.
EMAIL: HGRUBB@BARGHAUSEN.COM
WEBSITE: HTTPS://WWW.BARGHAUSEN.COM

GEOTECHNICAL

INLAND ENGINEERING TECHNOLOGIES INC.
41655 REAGAN WY. STE E
MURRIETA, CA 92562
TEL: (951) 894-6464
CONTACT: JAMES WORLEY
WEBSITE: HTTPS://WWW.INLANDTECHNOLOGIES.NET

DEVELOPER

DUTCH BROS COFFEE
P.O.BOX 1929
GRANTS PASS, OR 97528
CONTACT: JOHN CAGLIA
TEL: (714) 883-9092
EMAIL: JOHN.CAGLIA@DUTCHBROS.COM
WEBSITE: HTTPS://WWW.DUTCHBROS.COM

SURVEYOR

RICHTIG CORP.
13911 NOWATA CT.
APPLE VALLEY, CA 92307
TEL: (833) 307-5082
EMAIL: CHRIS@RICHTIGCORP.COM

CONSTRUCTION NOTES:

1. PROPOSED 1,025 SF DUTCH BROS COFFEE.
2. PROPOSED TRASH ENCLOSURE.
3. PROPOSED CONCRETE BARRIER CURB, TYPICAL.
4. PROPOSED ASPHALT PAVEMENT.
5. PROPOSED CONCRETE PAVEMENT.
6. PROPOSED ON-SITE CONCRETE SIDEWALK (WIDTH VARIES), TYPICAL.
7. PROPOSED PAVEMENT MARKING.
8. PROPOSED LANDSCAPE AREA, TYPICAL.
9. ACCESSIBLE PATH, TYPICAL.
10. PROPOSED ADA ACCESSIBLE RAMP.
11. PROPOSED BOLLARD.
12. PROPOSED DIRECTIONAL SIGNAGE.
13. PROPOSED SAWCUT LIMITS, TYPICAL.
14. PROPOSED DOUBLE STRIPING "HAIRPIN" STALL STRIPES, TYP.
15. PROPOSED DIRECTIONAL PAVEMENT MARKINGS, TYPICAL.
16. PROPOSED "EXIT LANE" PAVEMENT MARKING.
17. PROPOSED CUSTOMER WALK-UP CANOPY AREA.
18. PROPOSED BIKE RACK.
19. PROPOSED RETAINING WALL.
20. PROPOSED MENU BOARD SIGNAGE.
21. PROPOSED LANDSCAPE HEDGE FOR HEADLIGHT SCREENING, TYP.

UTILITY POTHOLING NOTE:

THE CIRCLED LOCATIONS ARE REQUIRED TO BE POTHOLED TO VERIFY VERTICAL AND HORIZONTAL LOCATION OF EXISTING UTILITY AND/OR POTENTIAL CONFLICTS WITH EXISTING UTILITIES. POTHOLING SHALL BE PERFORMED PRIOR TO INSTALLING ANY PROPOSED UTILITIES. CONTRACTOR SHALL NOTIFY BARGHAUSEN CONSULTING ENGINEERS, INC. OF ANY CONFLICTS.

PRELIMINARY SHEET INDEX

Sheet Number	Sheet Title
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LEGEND

BUILDING LINE
EXISTING CURB TO REMAIN
PROPOSED CURB
PROPOSED LANDSCAPING
PROPOSED ASPHALT
PROPOSED CONCRETE

PRELIMINARY NOT FOR CONSTRUCTION

Title: PRELIMINARY SITE AND UTILITY PLAN
SWQ 29 PALMS HWY & BALSA AVE
YUCCA VALLEY, CA

For: DUTCH BROS

HAL P. GRUBB — No. 78088 — Not for Construction — CIVIL — STATE OF CALIFORNIA

Scale: Horizontal 1" = 20' Vertical N/A
Designed RC Drawn LK Checked AEM Approved HPG Date 4/23/25

Barghausen Consulting Engineers, Inc.
18215 72nd Avenue South
Kent, WA 98032
425.251.6222
barghausen.com

Job Number 23690
Sheet 1 OF 2

3.0 CORRECTIONS AND ADDITIONS

The following corrections and additions to the Draft IS/MND are made as a result of comments received during the 30-day public review period and tribal consultation conducted pursuant to Assembly Bill (AB) 52. Added text is shown in underline format and deleted text is shown in ~~strikethrough~~ format.

Pursuant to *State CEQA Guidelines* Section 15073.5, a Lead Agency is required to recirculate a Negative Declaration only when the document must be "substantially revised." A substantial revision occurs when: (1) a new, avoidable significant effect is identified and mitigation measures or project revisions must be added to reduce the effect to less than significance; or (2) the Lead Agency determines that mitigation measures originally included in the proposed Negative Declaration are infeasible and the Lead Agency instead proposes new alternatives or mitigation measures.

The revisions presented in this chapter do not trigger recirculation. Pursuant to *State CEQA Guidelines* Sections 15073.5(c)(2) and 15073.5(c)(4), these revisions serve to clarify, amplify, and make insignificant modifications to the Draft IS/MND, and to add project revisions in response to public comments that do not involve new significant effects. Specifically:

- The revision to Mitigation Measure **MM TCR-1** clarifies and strengthens the tribal cultural resource monitoring requirements applicable to ground-disturbing activities. This revision is consistent with consultation requests received from the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic Preservation Office and public comment received from the Yuhaaviatam of San Manuel Nation (YSMN).

- Administrative corrections have been made to the Local Transportation Assessment (LTA) (Appendix E of the IS/MND) to replace inadvertently degraded imagery with high-resolution figures and to clarify text references (see pages 2.0-19 and 2.0-20 of **Chapter 2.0**). These corrections do not affect any analytical findings, methodologies, or significance determinations in the IS/MND.

These revisions do not identify any new significant environmental impacts, nor do they demonstrate that any previously proposed mitigation measures are inadequate. Accordingly, recirculation of the IS/MND is not required pursuant to *State CEQA Guidelines* Section 15073.5.

Tribal Cultural Resources

Pages 101-102 – The analysis for the second threshold and mitigation measure are revised to read:

> **Less than Significant with Mitigation Incorporated.** As previously discussed, an NAHC SLF search was negative for the Project Site. However, through the Assembly Bill 52 consultation process, the Agua

Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic Preservation Office (THPO) and YSMN identified the potential for undiscovered subsurface tribal cultural resources to be present in the Project area. ~~Agua Caliente Band of Cahuilla Indians requested that a tribal monitor be present during ground-disturbing activities. YSMN indicated that while they do not currently require a monitor, they requested specific mitigation measures be implemented to address the treatment of any inadvertent discoveries. To address the potential for the Project to impact unknown subsurface TCRs that may be significant under PRC Section 5024.1(c), the Town has agreed to incorporate the tribes' requested protocols.~~ In its consultation letters dated October 10 and December 3, 2025, the ACBCI THPO requested that an approved cultural resource monitor from a consulting tribe be present during all ground-disturbing activities, and that a halt-and-notify protocol be implemented in the event of an inadvertent discovery. The ACBCI further reviewed the Project and found the standard mitigation measures to be otherwise sufficient. During the 30-day public review period, the YSMN submitted a comment noting that the Draft IS/MND's **Mitigation Measure MM TCR-1** did not explicitly require the presence of a tribal monitor during ground-disturbing activities, notwithstanding ACBCI's consultation request. In response to this comment and the ACBCI's consultation requests, **MM TCR-1** has been revised in this Final IS/MND to require retention of an approved ACBCI THPO cultural resource monitor during all ground-disturbing activities, with YSMN serving as the designated monitoring tribe if ACBCI is unable to confirm availability or declines to provide a monitor within the required notice period. The revised **MM TCR-1** is set forth in **Chapter 3.0, Corrections and Additions**, of this Final IS/MND and supersedes the version presented in the Draft IS/MND.

Implementation of revised **Mitigation Measures MM TCR-1** and **Mitigation Measure MM TCR-2** ensures that: (1) a tribal cultural resource monitor from a consulting tribe will be present during all Project-related ground-disturbing activities; (2) ground-disturbing activities will be halted immediately in the vicinity of any inadvertent discovery of potential pre-contact cultural resources or tribal cultural resources; (3) both the ACBCI THPO and the YSMN Cultural Resources Management Department will be notified in writing within 24 hours of any such discovery; and (4) the significance of any find will be determined jointly by the tribal monitor, a qualified archaeologist, and the Lead Agency, with a Cultural Resources Monitoring and Treatment Plan prepared if the find is determined to be significant. ~~if any TCRs are encountered during construction, they will be identified, evaluated, and treated in coordination with the consulting tribes.~~ Therefore, impacts to potential TCRs would be reduced to a less than significant level.

Mitigation Measures:

MM TCR-1: ~~The Yuhaaviatam of San Manuel Nation (YSMN) Cultural Resources Management Department and the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic~~

~~Preservation Office shall be contacted regarding any pre-contact cultural resources discovered during Project implementation. Information regarding the nature of the find shall be provided to the tribes to allow Tribal input with regard to significance and treatment. If the find is deemed significant, a Cultural Resources Monitoring and Treatment Plan shall be prepared in coordination with the consulting tribes, and all subsequent finds shall be subject to this Plan. If significant Tribal Cultural Resources are found, the consulting tribes may elect to place a tribal monitor on site for the duration of the ground-disturbing activities in the vicinity of the find.~~

Prior to the commencement of ground-disturbing activities, the Applicant shall provide written notice to the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic Preservation Office (THPO) at least 15 business days prior to the start of ground-disturbing activities to retain a qualified ACBCI cultural resource monitor. If ACBCI does not confirm availability in writing or declines to provide a monitor within 10 business days of receiving such written notice, the Applicant shall provide written notice to the Yuhaaviatam of San Manuel Nation (YSMN) Cultural Resources Management Department offering the monitoring opportunity. If YSMN similarly does not confirm availability in writing within 10 business days of receiving such notice, the Applicant shall document its good-faith outreach efforts to both tribes in writing and provide such documentation to the Town of Yucca Valley prior to the commencement of ground-disturbing activities. The retained tribal monitor shall be present on-site during all project-related ground-disturbing activities.

In the event that potential pre-contact cultural resources or Tribal Cultural Resources are encountered during ground-disturbing activities, the tribal monitor shall have the authority to direct an immediate halt to all ground-disturbing activities within a 60-foot buffer of the find, consistent with MM CUL-1. The Applicant and project contractor shall comply with any stop-work directive issued by the tribal monitor.

Upon discovery of any potential pre-contact cultural resources or Tribal Cultural Resources, the Applicant shall notify both the ACBCI THPO and the YSMN Cultural Resources Management Department in writing within 24 hours of the discovery. Information regarding the nature of the find shall be provided to both tribes to allow tribal input with regard to significance and treatment. The significance of the find shall be determined jointly by the tribal monitor, a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards, and the Lead Agency. If the find is determined to be significant, a Cultural Resources Monitoring and Treatment

Plan shall be prepared in coordination with the consulting tribe(s) prior to the resumption of any ground-disturbing activities in the vicinity of the find, and all subsequent finds shall be subject to this Plan. If significant Tribal Cultural Resources are found, the consulting tribe that did not serve as the primary monitor at the start of ground-disturbing activities (whether ACBCI or YSMN, depending on which tribe is actively monitoring) may elect to place a tribal monitor on-site for the duration of the ground-disturbing activities in the vicinity of the find.

4.0 MITIGATION MONITORING AND REPORTING PROGRAM

4.1. INTRODUCTION

CEQA requires that a Lead Agency establish a program to monitor and report on mitigation measures adopted as part of the environmental review process to avoid or reduce the severity and magnitude of potentially significant environmental impacts associated with project implementation. Public Resources Code Section 21081.6(a)(1) requires that a Mitigation Monitoring and Reporting Program (MMRP) be adopted at the time the Lead Agency determines to carry out a project for which an IS/MND has been prepared, to ensure that the mitigation measures identified in the IS/MND are fully implemented.

4.2. DESCRIPTION OF THE MMRP

Compliance

The Town of Yucca Valley (Town), as the Lead Agency, is responsible for coordinating monitoring activities and documenting the implementation of mitigation measures for the Project. Per *State CEQA Guidelines* Section 15097(d), Lead and Responsible Agencies may coordinate their mitigation monitoring or reporting programs where possible.

For purposes of this MMRP, the "Applicant" refers to the Project applicant, including their designated representatives, construction contractors, successors, and assigns, who are responsible for financing, constructing, and operating the proposed Project. The Applicant shall ensure that all mitigation measures assigned to it are implemented in accordance with the timing and requirements set forth in this MMRP. In instances where implementing responsibility is shared between the Applicant and construction contractors, the Applicant is responsible for ensuring that all applicable mitigation requirements are incorporated into construction contracts and are fully implemented. Implementation of certain mitigation measures may require the Applicant to retain qualified specialist consultants, including but not limited to a qualified archaeologist, biological monitor, and tribal cultural resource monitor(s), as specified in the individual mitigation measures.

Field Monitoring of Mitigation Measures

Prior to the issuance of grading and building permits, the Town will review Project plans and specifications to verify that applicable pre-construction mitigation requirements have been satisfied and that mitigation measures have been incorporated into Project design and permit conditions as appropriate.

During construction, the Town will monitor implementation of mitigation measures through its standard building inspection and grading inspection processes. The Applicant is responsible for ensuring that construction contractors are fully informed of all applicable mitigation measures and that on-site implementation is consistent with the requirements of this MMRP. The Town retains the authority to suspend construction activities that are found to be out of compliance with adopted mitigation measures.

Following project completion, the Town will verify that all post-construction mitigation requirements have been satisfied prior to the issuance of a certificate of occupancy or final inspection approval, as applicable.

Changes to Mitigation Measures

The Town, as Lead Agency, may permit minor, administrative changes to this MMRP post-adoption (such as updates to responsible party contact information, permit numbers, or implementation scheduling that do not alter the substance or scope of any mitigation measure), subject to one of the following findings, supported by evidence in the record:

a. The mitigation measure is no longer required because the significant environmental impact identified in the IS/MND has been found not to exist, or to occur at a level that makes the impact less than significant, as a result of changes in the project, changes in conditions of the environment, or other factors; or

b. The modified or substitute mitigation measure: (i) provides a level of environmental protection equal to or greater than that afforded by the original mitigation measure; (ii) does not result in significant adverse environmental effects beyond those considered in the IS/MND and the MMRP; and (iii) is feasible and enforceable through the Town's standard permitting and inspection procedures or other mechanisms included in this MMRP.

Any modifications must not trigger the requirements for a subsequent environmental document pursuant to *State CEQA Guidelines* Section 15162. Findings and supporting documentation related to any modifications to mitigation measures shall be maintained in the Project file with the MMRP and shall be made available to the public upon request.

Mitigation Monitoring and Reporting Program Structure

Table 4.0-1, Yucca Valley Dutch Bros Project Mitigation Monitoring and Reporting Program, presented on the following pages, provides the MMRP for the Project. The MMRP identifies the following for each mitigation measure:

1. The mitigation measure number and environmental topic area;

2. The full text of the mitigation measure;
3. The timing of implementation (Project Phase);
4. The party responsible for implementation (Mitigation Responsibility);
5. The agency responsible for monitoring and enforcement (Monitoring/Enforcement Agency); and
6. A designated space for compliance verification (Date/Initials).

The Town, in conjunction with any appropriate responsible or trustee agencies, will determine the adequacy of any proposed change or modification to this MMRP. The flexibility to modify the MMRP is necessary to protect the environment through a workable and enforceable program while accommodating changes in project conditions, scheduling, or regulatory requirements that may arise during Project implementation.

Table 4.0-1
Yucca Valley Dutch Bros Project
Mitigation Monitoring and Reporting Program

Mitigation Measure	Project Phase / Timing	Mitigation Responsibility	Monitoring / Enforcement	Compliance Verification (Date/Initials)
MM BIO-1 Preconstruction Nesting Bird and Raptor Survey. • To the extent feasible, ground disturbing activities and vegetation removal shall be timed to occur between September 1 and January 31, which is outside the bird and raptor nesting season. • If ground disturbing activities or vegetation removal (including tree trimming) are scheduled between February 1 and August 31, which is the bird nesting season, a preconstruction survey for nesting birds shall be conducted within 72 hours prior to construction activities. The survey shall be conducted by a qualified biologist with prior experience conducting nesting bird surveys for construction projects. The study area shall include the affected area and suitable habitat within a 500-foot buffer, or a buffer size determined by the qualified biologist based on the level of proposed disturbance and access. If no active nests are found, no additional measures are required. • If active nests are found, the biologist will map the location and document the species and nesting stage. A no-work buffer will be established around the active nest as determined by the qualified biologist and based on the species' sensitivity to disturbance and the type and duration of the disturbance. Typical buffers shall be 300 feet for songbirds, 500 feet for raptors and special-status species, but it shall be determined based on the conditions on the site and recommendations of the qualified biologist. No construction activities shall occur within the no-work buffer until the biologist has determined the nest is no longer active.	**Pre-construction:** Within 72 hours prior to ground-disturbing activities scheduled during the nesting season (February 1–August 31). **Construction:** Ongoing if active nests are identified; no-work buffer maintained until nest is determined inactive by qualified biologist.	Applicant; Construction Contractor; Qualified Avian Biologist	Town of Yucca Valley	
MM BIO-2 Western Joshua Tree Permitting and Protection Due to the proposed removal of eight (8) Joshua trees for the Project, the Applicant shall obtain a permit from the CDFW prior to removing the trees. To obtain the permit, the applicant must complete a permit application and submit the application and Joshua tree inventory to	**Pre-construction:** ITP application submitted and fees paid prior to issuance of grading permit; protective fencing installed prior to	Applicant; Construction Contractor; California Department of Fish and Wildlife, Region 6 (ITP issuance)	Town of Yucca Valley; California Department of Fish and Wildlife, Region 6	

Mitigation Measure	Project Phase / Timing	Mitigation Responsibility	Monitoring / Enforcement	Compliance Verification (Date/Initials)
the CDFW Region 6 Office via the online permitting system. This permit will require coordination with both the County of San Bernardino and CDFW to determine the number of Joshua trees that the agencies shall require for transplanting to areas outside of the development. However, there is an in-lieu fee program that allows for a fee-based mitigation for the removal of Joshua trees, and these same mitigation fees could be applied to all of the Joshua trees that are encroaching within 15 meters, as determined by the agencies. Therefore, these estimated fees are subject to change per the requirements of the permitting agencies following an assessment of the project's impacts on Joshua trees. The Applicant shall pay the required fees prior to the issuance of a grading permit. The estimated 2025 Western Joshua Tree Conservation Act Incidental Take Permit annual mitigation fees for the proposed removal of eight Joshua trees within the standard fee area are a total of $4,072.00, as follows:[1] • 0 Class A trees x $346.00 = $0.00 • 8 Class B trees x $509.00 = $4,072.00 • 0 Class C trees x $2,544.75 = $0.00 Joshua Tree Avoidance During Construction • The Applicant shall install temporary protective fencing between the project workspace and each Joshua tree during construction of the project. The fencing shall be high-visibility fencing placed at a minimum 15-meter buffer zone prior to the start of construction (or at the distance that is permitted for trees closer to the site). No work or project activities shall occur within the fenced area, and all work shall occur outside of the proposed Joshua tree buffers. Fencing is required to prevent compaction and/or contamination of the soil and root zone. • During construction, heavy equipment and vehicles shall be operated in accordance with standard Best Management Practices (BMPs). For example, all equipment used in the workspace shall be properly maintained such that no leaks of oil, fuel, or residues will take place. Provisions shall be in place to remediate any accidental spills. Implementation of the BMPs will help minimize the potential for impact to Joshua trees both within and outside the Joshua tree buffer zones.	commencement of ground-disturbing activities. **Construction:** Ongoing; BMP compliance and no-work buffer maintained throughout construction.			

Mitigation Measure		Project Phase / Timing	Mitigation Responsibility	Monitoring / Enforcement	Compliance Verification (Date/Initials)
• Night work shall be avoided to ensure no disturbance of pollinators or photoperiods for the remaining Joshua trees.					
MM CUL-1	In the event that archaeological resources are discovered during project activities, all work in the immediate vicinity of the find (within a 60-foot buffer) shall cease and a qualified archaeologist meeting Secretary of Interior standards shall be retained to assess the find. Work on the other portions of the project outside of the buffered area may continue during this assessment period.	**Construction:** Ongoing during ground-disturbing activities; immediate halt and retention of qualified archaeologist upon discovery.	Applicant; Construction Contractor; Qualified Archaeologist	Town of Yucca Valley	
MM CUL-2	If significant archaeological resources, as defined by CEQA (Public Resources Code Section 21083.2), are discovered and avoidance cannot be ensured, the archaeologist shall develop a Monitoring and Treatment Plan. The Plan shall outline procedures for data recovery, curation, and reporting consistent with CEQA requirements. The archaeologist shall monitor the remainder of the project and implement the Plan accordingly.	**Construction:** If triggered by discovery of significant archaeological resources per MM CUL-1; Monitoring and Treatment Plan prepared prior to resumption of ground-disturbing activities in vicinity of find; ongoing monitoring through project completion.	Applicant; Construction Contractor; Qualified Archaeologist	Town of Yucca Valley; California State Historic Preservation Office (SHPO), if applicable	
MM CUL-3	If human remains or funerary objects are encountered during any activities associated with the Project, work in the immediate vicinity (within a 100-foot buffer of the find) shall cease and the San Bernardino County Coroner shall be contacted pursuant to State Health and Safety Code Section 7050.5 and that code shall be enforced for the duration of the Project. If the human remains are determined to be of Native American origin, the Coroner shall notify the Native American Heritage Commission within 24 hours of this identification, pursuant to Public Resources Code Section 5097.98.	**Construction:** Ongoing during ground-disturbing activities; immediate halt and notification of San Bernardino County Coroner upon discovery.	Applicant; Construction Contractor; San Bernardino County Coroner (upon discovery)	Town of Yucca Valley; San Bernardino County Coroner; Native American Heritage Commission (NAHC), if applicable	
MM GEO-1	In the event that paleontological resources are discovered during ground-disturbing activities associated with the Project, all work shall be halted within 50 feet of the discovery, and a qualified paleontologist shall be retained to evaluate the significance of the find. If the resource is determined to be significant, the paleontologist shall develop a	**Construction:** Ongoing during ground-disturbing activities; immediate halt and retention of qualified paleontologist upon discovery; Paleontological Resource Mitigation Plan prepared prior to resumption of activities in vicinity of	Applicant; Construction Contractor; Qualified Paleontologist	Town of Yucca Valley	

	Mitigation Measure	Project Phase / Timing	Mitigation Responsibility	Monitoring / Enforcement	Compliance Verification (Date/Initials)
	Paleontological Resource Mitigation Plan to address the assessment and recovery of the resource and to monitor further ground-disturbing activities associated with the Project. A final report documenting any found resources, their recovery, and disposition shall be prepared by the qualified paleontologist, and a copy of the report shall be provided to the Town of Yucca Valley Planning Division and an accredited repository/curation facility, such as the San Bernardino County Museum.	find if resource is significant; final report submitted upon project completion.			
MM TCR-1	Prior to the commencement of ground-disturbing activities, the Applicant shall provide written notice to the Agua Caliente Band of Cahuilla Indians (ACBCI) Tribal Historic Preservation Office (THPO) at least 15 business days prior to the start of ground-disturbing activities to retain a qualified ACBCI cultural resource monitor. If ACBCI does not confirm availability in writing or declines to provide a monitor within 10 business days of receiving such written notice, the Applicant shall provide written notice to the Yuhaaviatam of San Manuel Nation (YSMN) Cultural Resources Management Department offering the monitoring opportunity. If YSMN similarly does not confirm availability in writing within 10 business days of receiving such notice, the Applicant shall document its good-faith outreach efforts to both tribes in writing and provide such documentation to the Town of Yucca Valley prior to the commencement of ground-disturbing activities. The retained tribal monitor shall be present on-site during all project-related ground-disturbing activities. In the event that potential pre-contact cultural resources or Tribal Cultural Resources are encountered during ground-disturbing activities, the tribal monitor shall have the authority to direct an immediate halt to all ground-disturbing activities within a 60-foot buffer of the find, consistent with MM CUL-1. The Applicant and	**Pre-construction:** Written notice to ACBCI THPO at least 15 business days prior to commencement of ground-disturbing activities; good-faith outreach documentation provided to Town if neither tribe confirms availability. **Construction:** Tribal cultural resource monitor present on-site during all ground-disturbing activities; immediate halt and written notification to ACBCI THPO and YSMN within 24 hours of any discovery; Cultural Resources Monitoring and Treatment Plan prepared prior to resumption of activities if find is significant.	Applicant; Construction Contractor; Qualified Archaeologist (upon discovery)	Town of Yucca Valley; ACBCI THPO (primary tribal monitor); YSMN Cultural Resources Management Department (designated alternate tribal monitor)	

	Mitigation Measure	Project Phase / Timing	Mitigation Responsibility	Monitoring / Enforcement	Compliance Verification (Date/Initials)
	project contractor shall comply with any stop-work directive issued by the tribal monitor. Upon discovery of any potential pre-contact cultural resources or Tribal Cultural Resources, the Applicant shall notify both the ACBCI THPO and the YSMN Cultural Resources Management Department in writing within 24 hours of the discovery. Information regarding the nature of the find shall be provided to both tribes to allow tribal input with regard to significance and treatment. The significance of the find shall be determined jointly by the tribal monitor, a qualified archaeologist meeting the Secretary of the Interior's Professional Qualification Standards, and the Lead Agency. If the find is determined to be significant, a Cultural Resources Monitoring and Treatment Plan shall be prepared in coordination with the consulting tribe(s) prior to the resumption of any ground-disturbing activities in the vicinity of the find, and all subsequent finds shall be subject to this Plan. If significant Tribal Cultural Resources are found, the consulting tribe that did not serve as the primary monitor at the start of ground-disturbing activities (whether ACBCI or YSMN, depending on which tribe is actively monitoring) may elect to place a tribal monitor on-site for the duration of the ground-disturbing activities in the vicinity of the find.				
MM TCR-2	Any archaeological/cultural documents created as a part of the Project (isolate records, site records, survey reports, testing reports, etc.) shall be supplied to the Applicant and Town of Yucca Valley for dissemination to YSMN and ACBCI. The Town of Yucca Valley and/or Applicant shall consult in good faith with the consulting tribes throughout the Project's ground-disturbing activities and until all cultural resource documentation is finalized.	**Construction and Post-construction:** Ongoing throughout all ground-disturbing activities and continuing through finalization of all cultural resource documentation generated in connection with the Project.	Applicant; Town of Yucca Valley	Town of Yucca Valley; ACBCI THPO; YSMN Cultural Resources Management Department	

1 *Fee amounts are based on the 2025 CDFW Western Joshua Tree Conservation Act fee schedule and are subject to change at the time of ITP application and permit issuance. The Applicant shall pay the fee amounts established by CDFW at the time of permit issuance.*

NOTICE OF PUBLIC HEARING
YUCCA VALLEY PLANNING COMMISSION
TUESDAY, APRIL 14, 2026
BEGINNING AT 6:00 P.M.
YUCCA VALLEY COMMUNITY CENTER
57090 TWENTYNINE PALMS HIGHWAY
YUCCA VALLEY, CALIFORNIA 92284

A PUBLIC HEARING HAS BEEN SCHEDULED BEFORE THE YUCCA VALLEY PLANNING COMMISSION TO CONSIDER THE FOLLOWING DESCRIBED APPLICATION:

CASE NUMBER: Conditional Use Permits (CUP) 02-25 and Environmental Assessment (EA) 03-25

APPLICANT: John Caglia
P.O. Box 1929
Grants Pass, OR 97528

PROPOSAL: A Conditional Use Permit (CUP) 02-25; Environmental Assessment (EA) 03-25; A Proposal to develop a 1-acre parcel with a drive-through coffee shop. The drive-through coffee shop will be a 1,025-square-foot building with a drive-through window on the east side and a covered walk-up service window on the western side. The walk-up window will serve pedestrians and bicyclists. The building will be in the front of the parcel and close to the frontage access. Access to the subject parcel comes from access easements to the north and south of the proposed project.

LOCATION: 58121 Twentynine Palms Highway
Yucca Valley, CA 92284
Assessor Parcel Number (APN): 0601-416-05

ENVIRONMENTAL DETERMINATION: The project was reviewed under the California Environmental Quality Act (CEQA) and the Town's Guidelines to implement same. A Mitigated Negative Declaration will be prepared pursuant to Section 15070 to 15075 of CEQA.

Any person affected by the application(s) may appear and be heard in support of or opposition to the proposal at the time of the hearing. The environmental findings, along with the proposed project application(s) are available and may be reviewed at the Town of Yucca Valley Planning Division, 58928 Business Center Drive, Yucca Valley, CA 92284 from 7.30 a.m. to 5:30 p.m., Monday through Thursday or obtain information at (760)369-6579.

The Planning Commission in its deliberation could recommend approval of the project, deny the project, or approve the project in an alternative form. If you challenge any of the projects in court, you may be limited to raising only those issues you or someone else raised at the Public Hearing described in this notice, or in written correspondence delivered to the Town Planning Division at, or prior to the Public Hearing.

March 16, 2026
Date

/s/ Lesley R. Copeland, CMC
Town Clerk

Pub. S.: 03/18/2026

compliance with CA civil opening bid applies only to dependent Administra-

NOTICE OF INTENT TO ADOPT
A MITIGATED NEGATIVE DECLARATION

Project Title: Yucca Valley Dutch Bros Project
Lead Agency: Town of Yucca Valley
Applicant: Dutch Bros Inc.
Review Period: March 6, 2026, to April 6, 2026 (32 days)

Purpose of the Notice
In accordance with California Environmental Quality Act (CEQA) Guidelines Section 15072, the Town of Yucca Valley has prepared an Initial Study/Mitigated Negative Declaration (IS/MND) for the proposed Yucca Valley Dutch Bros Project. This Notice of Intent (NOI) informs agencies and interested parties about the Project and provides instructions for reviewing and submitting comments

Project Location
The approximately 1.01-acre vacant Project Site is located at 58121 Twentynine Palms Highway (APN: 0601-416-05). The site is situated within an existing commercial corridor, bordered by Big 5 Sporting Goods to the west, Walgreens to the east, a commercial center to the north across Twentynine Palms Highway, and undeveloped land to the south. Single-family residences are located farther east and south across Balsa Avenue. The Project Site is designated Mixed Use (MU) and zoned Mixed-Use Commercial (C-MU) by the Town's General Plan, with surrounding zoning consisting of Commercial (C-N) to the north and Residential (R-S-2) to the south and east.

Project Description
The Project proposes the construction and operation of an approximately 1,025-square-foot Dutch Bros Coffee shop with a dual-lane drive-through facility designed to accommodate 23 queued vehicles, along with 18 surface parking spaces. Construction of the Project would necessitate the removal of existing Western Joshua Trees (Yucca brevifolia) on-site.

Site access would be provided via existing driveways serving the adjacent Big 5 Sporting Goods (to the west) and Walgreens (to the east) commercial developments, with internal circulation connecting to these surrounding uses. In addition to on-site improvements, the Project would contribute in-lieu fees toward future off-site roadway improvements, specifically the widening of Twentynine Palms Highway to an ultimate half-width of 67 feet, to be undertaken at a later date by the Town and the San Bernardino County Transportation Authority.

Hazardous Waste Sites Disclosure
In accordance with Section 15072 of the State CEQA Guidelines, the Project Site is not included on any of the lists of hazardous waste sites enumerated under Government Code Section 65962.5.

Environmental Determination & Document Availability
In accordance with Section 15070 of the California Code of Regulations, the Planning Division of the Town of Yucca Valley has determined that there is no substantial evidence that the proposed Project would have a significant effect on the environment, and that a mitigated negative declaration may be adopted.

The IS/MND is available at the Town's Community Development Department located at 58928 Business Center Drive, Yucca Valley, California 92284. The document is also available online at: https://www.yucca-valley.org/our-town/departments/community-development/planning/land-development/cup-02-25-ea-03-25-dutch-bros.

Public Review and Comment Period
The 32-day public review period begins **March 6, 2026,** and ends **April 6,** 2026. Comments must be provided in writing and received before **5:00 p.m.** on **April 6, 2026.** Comments will be considered by the decision-making body in accordance with State CEQA Guidelines Section 15074(b).

Please send all comments or inquiries by either U.S. mail or electronic mail to:

Jared Jerome, Senior Planner
Town of Yucca Valley
Community Development Department - Planning Division
58928 Business Center Drive
Yucca Valley, CA 92284
Email: jjerome@yucca-valley.org

For comments submitted via email, please include "Yucca Valley Dutch Bros" in the subject line and your name in the body of the email.

Public Hearing
The Project is scheduled to be considered by the Town of Yucca Valley Planning Commission on **Tuesday, April 14, 2026, at 6:00 PM.** The hearing will take place in the Yucca Room at the Yucca Valley Community Center, located at 57090 Twentynine Palms Highway, Yucca Valley, CA 92284.

Pub. S.: 03/04/2026

RESOLUTION NO. PC 26-03

RESOLUTION OF THE PLANNING COMMISSION OF THE TOWN OF YUCCA VALLEY APPROVING EA 03-25 AND CUP 02-25 (PROJECT), FOR WHICH AN INITIAL STUDY/MITIGATED NEGATIVE DECLARATION WAS PREPARED IN ACCORDANCE WITH THE CALIFORNIA ENVIRONMENTAL QUALITY ACT, AND ADOPTING A MITIGATION MONITORING AND REPORTING PROGRAM

WHEREAS, prior to the adoption of this Resolution, the Town of Yucca Valley prepared an Initial Study and adopted a Mitigated Negative Declaration for the EA 03-25 and Conditional Use Permit CUP 02-25 (Project) in accordance with the requirements of the California Environmental Quality Act of 1970, as amended ("CEQA"), and state guidelines implementing CEQA; and

WHEREAS, the Project analyzed under the Initial Study/Mitigated Negative Declaration consisted of the construction and development of an approximate 1,025 square foot coffee shop that is 24' in height, with dual-lane drive-through facility and associate site improvements. The project is located at 58121 Twentynine Palms Highway and is also identified as APN: 0601-416-05; and

WHEREAS, the Initial Study/Mitigated Negative Declaration concluded that implementation of the Project could result in a number of significant effects on the environment and identified mitigation measures that would reduce the significant effects to a less-than-significant level; and

WHEREAS, in connection with the approval of a project involving the preparation of an initial study/mitigated negative declaration that identifies one or more significant environmental effects, CEQA requires the decision-making body of the lead agency to incorporate feasible mitigation measures that would reduce those significant environment effects to a less-than-significant level; and

WHEREAS, whenever a lead agency approves a project requiring the implementation of measures to mitigate or avoid significant effects on the environment, CEQA also requires a lead agency to adopt a Mitigation Monitoring and Reporting Program to ensure compliance with the mitigation measures during project implementation; and

WHEREAS, the Town of Yucca Valley is the lead agency on the Project, and the Planning Commission is the decision-making body for the proposed Project; and

WHEREAS, the Planning Commission has reviewed and considered the Initial Study/Mitigated Negative Declaration and related Mitigation Monitoring and Reporting Program for the Project and intends to take actions on the Project in compliance with CEQA and state guidelines implementing CEQA; and

WHEREAS, the Initial Study/Mitigated Negative Declaration and the Mitigation Monitoring and Reporting Program for the Project are, by this reference, incorporated into this Resolution as if fully set forth herein; and

WHEREAS, the Project will not individually or cumulatively have an adverse effect on wildlife resources, as defined in Section 711.2 of the California Department of Fish and Game Code.

NOW THEREFORE BE IT RESOLVED BY THE PLANNING COMMISSION OF THE TOWN OF YUCCA VALLEY AS FOLLOWS:

THAT THE PLANNING COMMISSION does hereby make the following findings: (1) it has independently reviewed and analyzed the Initial Study/Mitigated Negative Declaration and other information in the record and has considered the information contained therein, prior to acting upon or approving the Project, (2) the Initial Study/Mitigated Negative Declaration prepared for the Project has been completed in compliance with CEQA and consistent with state and local guidelines implementing CEQA, and (3) the Initial Study/Mitigated Negative Declaration represents the independent judgment and analysis of the Town as lead agency for the Project.

THAT THE PLANNING COMMISSION does hereby approve construction of the Project (Planning File No. EA 03-25 and CUP 02-25) and adopt the Mitigation Monitoring and Reporting Program prepared for the Project. The Initial Study/Mitigated Negative Declaration and Mitigation Monitoring and Reporting Program are: (1) on file in the Community Development Department Office, located at 58928 Business Center Drive, Yucca Valley, CA, 92284 (2) and area available for inspection by any interested person.

ADOPTED this 14th day of April, 2026.

Mathew Thomas, Chairperson

ATTEST:

Janet Yochmowitz, Secretary

Town of Yucca Valley
Planning Commission Staff Report

To: Planning Commission

From: Jared Jerome, Senior Planner

Date: April 6, 2026

Meeting Date: April 14, 2026

Subject: Environmental Assessment, EA 02-25; Specific Plan 01-04 Amendment #2, Conditional Use Permit, CUP 01-25, Resolution No. 26-XX, Ordinance No. XX, Walmart Fuel Station. A request to amend the existing Specific Plan to allow for the construction and operation of a fuel station with six (6) fueling pumps, twelve (12) fuel dispensers, a 4,950 square foot fuel station canopy, and a 1,556 square foot convenience store. The project site is located at 58501 Twentynine Palms Highway and is also identified as APN: 0601-201-54.

Recommendation:

Environmental Assessment 02-25:

That the Planning Commission recommends approval of EA 02-25, and adoption of the resolution, to the Town Council, for Addendum #1 to the previously adopted Environmental Impact Report.

Conditional Use Permit 01-25:

That the Planning Commission recommends approval of CUP 01-25, a request to construct and operate a six (6) pump gasoline station, twelve (12) fuel dispensers, 4,950 square foot fuel station canopy, and a 1,556 square foot convenience store.

Ordinance No. XX, Specific Plan 01-04, Amendment #2:

That the Planning Commission recommends approval of Ordinance No. XX, Specific Plan 01-04 Amendment #2 to the Town Council, a request to amend the adopted Specific Plan by Ordinance, to allow a gasoline station as an approved land use and to allow for additional signage for the gasoline station and convenience store.

Prior Review:

The Planning Commission recommended approval of Specific Plan 01-04 at their meeting of April 15, 2008. The Town Council adopted Specific Plan 01-04 at their meeting of October 14, 2008.

The Planning Commission recommended approval of Specific Plan 01-04, Amendment #1, at

their meeting of October 12, 2021, for the purpose of altering the approved Sign Program. The Town Council adopted Specific Plan 01-04, Amendment #1, at their meeting of November 16, 2021.

Discussion:

Applicant:

Ryan Alvarez

1100 W Town and Country Rd Ste 700

Orange, CA 92868

Property Owner:

Walmart Stores Inc.

702 SW 8th Street

Bentonville, AK 72716

Representative:

Ryan Alvarez

1100 W Town and Country Rd Ste 700

Orange, CA 92868

Location: The project site is located at 58501 Twentynine Palms Highway, in the northeast portion of the existing Walmart parking lot approximately 1,000 feet to the east of the intersection of Avalon Avenue and Twentynine Palms Highway, and approximately 280 feet to the southwest of the existing shared drive aisle for Home Depot and Walmart.

APN:

0601-201-54

Existing General Plan Designation:

Commercial (C) - East Side SPA

Surrounding General Plan Designations:

North: Commercial (C)
South: Industrial (I) - East Side SPA
East: Commercial (C) - East Side SPA
West: Commercial (C)

Existing Zoning Designation:

Yucca Valley Retail Specific Plan (S-01-04)

Surrounding Zoning Designations:

North: General Commercial (C-G)
South: Industrial (I)
East: Home Depot Retail Specific Plan (S-01-05)
West: General Commercial (C-G)

Surrounding Land Use:

North: Vacant

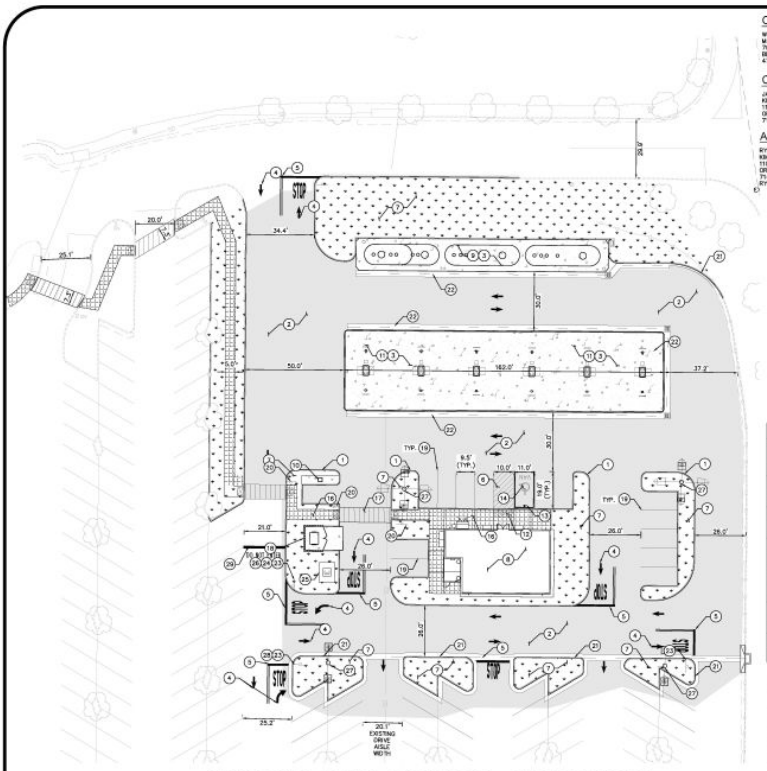
South: Vacant

East: Commercial Retail and Restaurants

West: Vacant

PROJECT ANALYSIS:

PROJECT DESCRIPTION: The proposed project includes the construction of a new fuel station with six fueling pumps (12 dispensers), an overhead canopy, underground fuel storage, a trash enclosure, and a 1,556 square-foot convenience store. This project is over an approximate area of 1.32 acres. The overhead canopy stands at 17.67 feet, and the convenience store stands at 16 feet. The proposed work includes heavy duty asphalt pavement, heavy duty concrete pavement, concrete walkways to the existing accessible path and bus stop, landscaping, additional storm infrastructure and additional dry utility for the convenience store. The proposed underground sewer will connect to the existing sewer infrastructure of the main store. The convenience store will mimic the hours of the existing Walmart Supercenter, 6AM-11PM, but the gas station will remain operational 24 hours, 7 days a week. The convenience store is expected to have two employees at a time. Alcohol sales are planned to be a part of the convenience store.



WALMART FUEL STATION - STORE #1915
58501 TWENTY NINE PALMS HWY., YUCCA VALLEY, CA 92284
DESIGN CIVIL SITE PLAN

OWNER

WAL-MART STORES INC.
MAIL STOP 0555
702 SW 8TH STREET
BENTONVILLE, AR 72716-5570
479-871-7573

CIVIL ENGINEER

JACOB GLAZE, P.E.
KIMLEY-HORN
1100 TOWN AND COUNTRY ROAD
ORANGE, CA 92868
714-939-1030

APPLICANT

RYAN ALVAREZ P.E.
KIMLEY-HORN
1100 TOWN AND COUNTRY ROAD
ORANGE, CA 92868
714-939-1030
RYAN.ALVAREZ@KIMLEY-HORN.COM

LEGEND

- PROPERTY LINE
- HEAVY DUTY ASPHALT PAVING
- LANDSCAPING
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- TRUNCATED DOMES

CONSTRUCTION NOTES

1. PROPOSED CONCRETE CURB.
2. PROPOSED HEAVY DUTY ASPHALT PAVEMENT.
3. PROPOSED CONCRETE PAVEMENT.
4. STRIPE DIRECTIONAL ARROW PAVEMENT MARKING.
5. STRIPE STOP BAR PAVEMENT MARKING.
6. STRIPE WHITE 4" STRIPE, 60 DEGREES, SPACED AT 36" O.C
7. PROPOSED LANDSCAPING.
8. PROPOSED 1,440 SF CONVENIENCE STORE.
9. PROPOSED UNDERGROUND GAS TANKS, ONE 20,000 GAL UNL, ONE 20,000 GAL SPLIT (12,000 UNL/8,000 PRM), AND ONE 20,000 GAL DSL.
10. PROPOSED AIR STATION.
11. PROPOSED CANOPY.
12. PROPOSED TRUNCATED DOMES.
13. PROPOSED VAN ACCESSIBLE PARKING SIGN ON POST.
14. PROPOSED VAN ACCESSIBLE PARKING.
15. PROPOSED PEDESTRIAN CROSSING SIGN ON POST AND BOLLARD.
16. PROPOSED CONCRETE SIDEWALK.
17. PROPOSED PATH OF TRAVEL STRIPING.
18. PROPOSED TRASH ENCLOSURE.
19. PROPOSED REGULAR PARKING.
20. PROPOSED PEDESTRIAN CROSSING SIGN ON POST.
21. PROPOSED CURB AND GUTTER.
22. PROPOSED VALLEY GUTTER.
23. PROPOSED STOP SIGN ON POST.
24. PROPOSED SUPPLEMENTARY "CROSS TRAFFIC DOES NOT STOP" PLACARD.
25. PROPOSED TRANSFORMER PAD SHOWN FOR REFERENCE ONLY
26. PROPOSED SUPPLEMENTARY "LEFT TURN ONLY" PLACARD.
27. PROPOSED LIGHT POLE BASE. SEE LIGHTING INFORMATION ON PHOTOMETRIC PLANS.
28. PROPOSED SUPPLEMENTARY "NO THROUGH TRAFFIC" PLACARD.
29. STRIPE "DO NOT ENTER" BAR PAVEMENT MARKING.

SITE ANALYSIS TABLE

FUEL STATION ADDRESS	58501 TWENTY NINE PALMS HWY, YUCCA VALLEY, CA 92284
EXISTING/PROPOSED ZONING	CG - GENERAL COMMERCIAL
EXISTING/PROPOSED GENERAL PLAN DESIGNATION	(C) COMMERCIAL
SPECIFIC PLAN IDENTIFICATION	YUCCA VALLEY RETAIL SP
EXISTING LAND USE	GENERAL RETAIL MERCHANDISER
PROPOSED LAND USE	GENERAL RETAIL MERCHANDISER/GAS STATION WITH CONVENIENCE STORE
GROSS/PARCEL AREA	23.85 ACRES | 1,038,906 S.F.
NET AREA	22.91 ACRES | 997,959 S.F.
EXISTING WALMART BUILDING AREA	184,146 S.F.
PROPOSED FUEL AREA OF DISTURBANCE	1.32 ACRES
PROPOSED FUEL BUILDING AREA	1,556 S.F.
PROPOSED TOTAL BUILDING AREA	185,702 S.F.

SITE ANALYSIS TABLE (EXISTING STORE)

	EXISTING	PROPOSED
TOTAL BUILDING AREA[1]	184,146 S.F.	185,702 S.F.
REQUIRED PARKING (PER CITY OF YUCCA VALLEY) REQUIRED PARKING RATIO (PER CITY OF YUCCA VALLEY)	737 SPACES 4.0/1,000 S.F.	743 SPACES 4.0/1,000 S.F.
REQUIRED PARKING (PER ECR/CC&R) REQUIRED PARKING RATIO (PER ECR/CC&R)	N/A N/A	N/A N/A
CUSTOMER AND ASSOCIATE PARKING ACCESSIBLE PARKING (VAN)[2] EV PARKING PICKUP PARKING PARKING SPACES OCCUPIED BY CART CORRALS (NOT INCLUDED IN PARKING COUNTS BELOW)	851 SPACES 32 (0) SPACES 0 SPACES 23 SPACES 100 CORRALS / 44 SPACES	715 SPACES 33 (0) SPACES 0 SPACES 23 SPACES 100 CORRALS / 37 SPACES
PROPOSED TOTAL PARKING EXCLUDING PICKUP STALLS PROPOSED PARKING RATIO EXCLUDING PICKUP STALLS	883 SPACES 4.7/1,000 SF	748 SPACES 4.0/1,000 S.F.
PROPOSED TOTAL PARKING INCLUDING PICKUP STALLS PROPOSED PARKING RATIO INCLUDING PICKUP STALLS	906 SPACES 4.9/1,000 S.F.	771 SPACES 4.1/1,000 S.F.

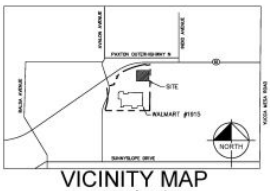
NOTE:
1. CART CORRAL OCCUPYING STALLS ARE REMOVED FROM ALL COUNTS AND DO NOT CONTRIBUTE TO THE PARKING RATIOS IN THE TABLE.

APN: 0601201040000

LEGAL DESCRIPTION:
THAT PORTION OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER OF SECTION 33, TOWNSHIP 1 NORTH, RANGE 8 EAST, SAN BERNARDINO MERIDIAN, IN THE CITY OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO THE OFFICIAL PLAT THEREOF, LYING SOUTHEASTERLY AND SOUTHERLY OF THE SOUTHEASTERLY LINE OF 29 PALMS HIGHWAY CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED OCTOBER 13, 1916 IN BOOK 803, PAGE 97 OF OFFICIAL RECORDS.

NORTH

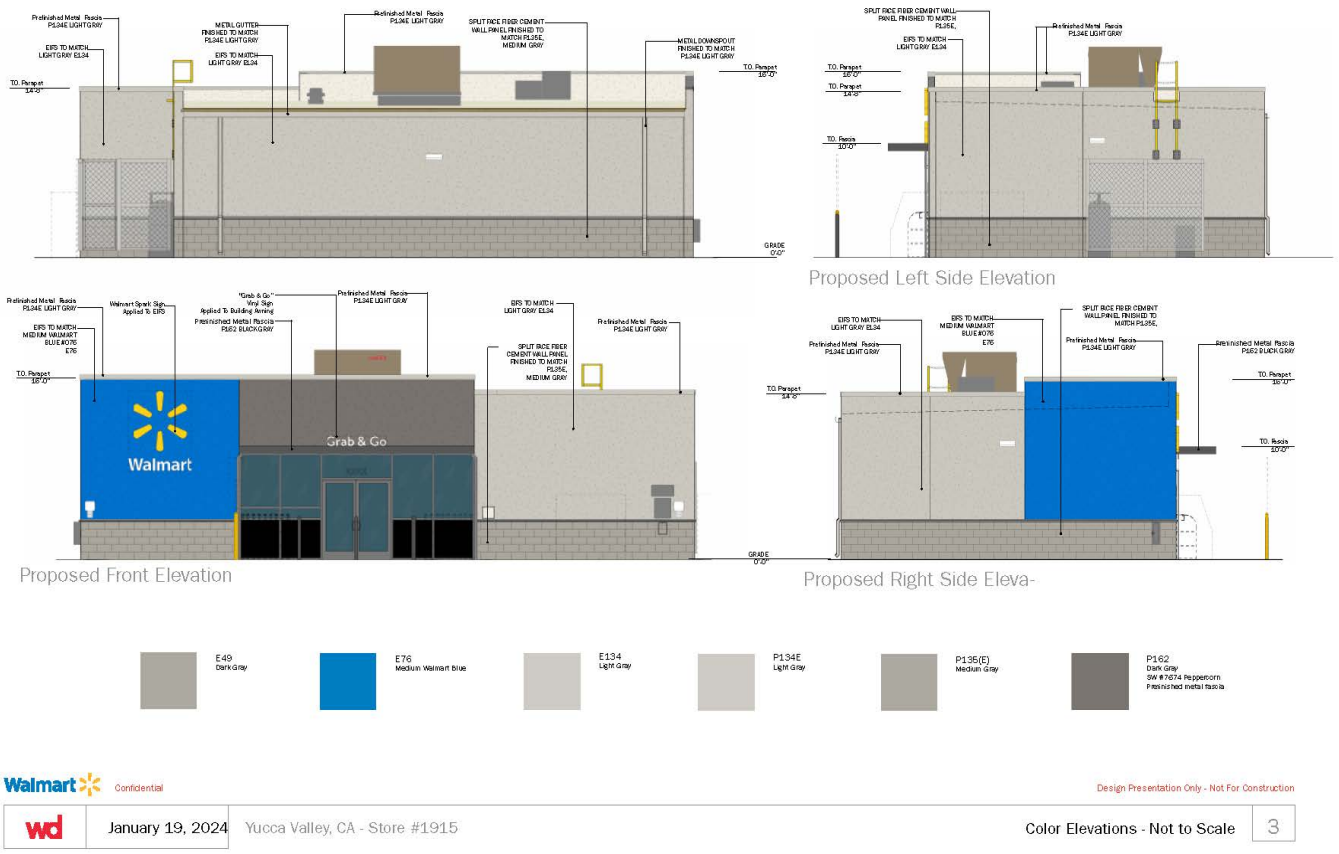
GRAPHIC SCALE IN FEET
0 10 20 40
SCALE: 1" = 20'
WHEN PRINTED AT FULL SIZE 24"X36"



VICINITY MAP
SCALE: 1" = 1000'
WHEN PRINTED AT FULL SIZE 24"X36"

Kimley»Horn

© 2024 KIMLEY-HORN AND ASSOCIATES, INC.
1100 W TOWN AND COUNTRY RD, SUITE 700, ORANGE, CA 92868
PHONE: 714-939-1030 FAX: 714-938-9488
REVISED: 12.22.2025



PROJECT AREA: 1.32 acres within NE portion of 23.85 acre site.

BUILDING AREA: 1,556 square-foot convenience store and 4,950 square-foot fuel station canopy.

SETBACKS:

Front: 15' minimum required by Code. ~200' proposed.

Rear: 10' minimum required by Code (if adjacent property is not designated Commercial or Industrial) ~810' proposed.

Interior Side(s): 10' minimum required by Code. (Only one side yard is required to provide emergency access. If the adjacent property is not designated commercial or industrial, a side yard shall be required along that side of the property) (~115' proposed east) (~520' proposed west)

MAX BUILDING HEIGHT: Maximum 40' allowed by Code. The fueling station canopy is proposed at 17.67' height, with a 14' maximum vehicle clearance, and the convenience store is proposed at 16' height.

BUILDING ELEVATIONS: The proposed building is of varying heights, materials, and colors, including dark gray cement, light gray fiber cement wall, and blue fiber cement wall. The proposed canopy consists of a blue, light gray, and white color palette on factory pre-finished materials.

SIGNAGE: Permits for signage are to be processed consistent with standards adopted by this Specific Plan. The Specific Plan includes a comprehensive Master Sign Program for the property, addressing wall sign and freestanding sign standards for the anchor tenant and outparcel tenants. The proposed Specific Plan

amendment includes new provisions to address signage allowances for the fueling station canopy, convenience and fueling station signage, and modifications to existing pylon signage. The existing pylon sign at the NE corner of the overall site is proposed to be modified to include an electronic display of fuel station prices. A new monument sign is proposed at the NE corner of the project site for the fuel station to include an electronic display fuel station prices.

FAR: 1.20 Maximum allowed by Code. 0.185 FAR includes existing and proposed construction.

PHASED CONSTRUCTION: Phased construction is not proposed.

FLOOD ZONE: Not applicable to project area.

ALQUIST PRIOLO/EARTHQUAKE FAULT HAZARD ZONE: Not applicable to project area.

ACCESS/PARKING: The current Specific Plan requires, for the major tenant, a ratio of 1 space per 200 square feet of building area, totaling 920 spaces. The proposed Specific Plan Amendment reduces that standard, for the major tenant, to 1 space per 250 square feet of building area, totaling 737 spaces. All other land uses shall comply with Development Code parking requirements. The proposed convenience store is 1,556 square feet and requires a total of 6 spaces based on retail sales parking ratio in the Development Code of 1 space per 250 square feet of building area. A total of 743 spaces are required and a total of 785 spaces are proposed across the overall site, excluding stalls occupied by parking corrals. The traffic circulation of existing drive-aisles along the NE portion of the existing parking lot would be modified to accommodate the proposed fuel station improvements, eliminating the drive-aisle entrance at the NE corner of the overall parcel. A truck turning plan, attached to this staff report, identifies how fuel trucks would enter and exit the site.

ADA: The existing ADA parking spaces on the site total 32 spaces. The proposed ADA parking would total 33 spaces, adding 1 space. ADA path of travel is required.

AIRPORT COMPREHENSIVE LAND USE PLAN: The project is located within the Part 77 Imaginary Surface - Horizontal Surface and Safety Review Area 3 of the Airport Comprehensive Land Use Plan.

LANDSCAPING:

The preliminary landscaping for the proposed project includes the following plants, identified by scientific name, common name, size, and quantity proposed, and other decorative ground cover:

Chilopsis Linearis/Desert Willow (24" BOX) - (QUANTITY 9)
Pistacia Chinensis/Chinese Pistache (24" BOX) - (QUANTITY 14)
Hesperaloe Parviflora/Red Yucca (5 GAL) - (QUANTITY 21)
Leucophyllum Frutescens 'Compacta'/Compact Desert Ranger (5 GAL) - (QUANTITY 77)
Rosemarinus Officinalis 'Prostrate'/Prostrate Rosemary (5 GAL) - (QUANTITY 52)
Ground Cover - Lantana X 'New Gold'/New Gold Lantana (1 GAL) - (QUANTITY 48)
Ground Cover - 3" DEPTH MIN. OF 1/4"-3/4" CRUSHED ROCK / TO MATCH EXISTING (6,649 SF)
Ground Cover - 2" DEPTH DECOMPOSED GRANITE / COLOR AND SIZE TO MATCH EXISTING (6,124 SF)
Ground Cover - EXISTING LANDSCAPE TO REMAIN (8,513 SF)
Existing Tree To Be Removed - (QUANTITY 22)

TRASH ENCLOSURE:

Project includes a trash enclosure located to the southwest of the drive-through entrance, which shall accommodate three (3) bins for landfill, recycling, and organic waste in compliance with SB 1383.

RIGHT OF WAY DEDICATION REQUIRED:

No additional right-of-way dedication is required.

OFF SITE IMPROVEMENTS REQ:

No additional off-site improvements required.

ASSESSMENT DISTRICTS REQ: No additional action required.
STREET LIGHTS: N/A

CAL TRANS PERMIT REQUIRED: Caltrans permit is required if any work is proposed within Caltrans ROW.

UTILITY UNDERGROUNDING: Yes, in accordance with Ordinance 233.

ON-SITE LIGHTING: All lighting shall be shielded to comply with Development Code Chapter 8.70, Outdoor Lighting. Condition of Approval P5 is recommended, requiring 0.3-foot candles or less of lighting output at each property line, to be reviewed by Planning Division staff.

AIRPORT INFLUENCE AREA: Yes. A deed notice shall be recorded based on the proximity of Yucca Valley Airport.

TRAILS AND BIKE LANE MASTER PLAN: N/A

PUBLIC FACILITY MASTER PLAN: N/A

PARKS AND REC MASTER PLAN: N/A

MASTER PLAN OF DRAINAGE: N/A

SPECIFIC PLAN/PLANNED DEVELOPMENT: Yes, the proposed project includes amendment of the Yucca Valley Retail Specific Plan (S-01-04).

GATEWAY REIMBURSEMENT DISTRICT: N/A

AVALON SIGNAL REIMBURSEMENT DISTRICT: N/A

HDWD SEWER CONNECTION: Required upon notification of availability by HDWD.

FUTURE PLANNING COMMISSION ACTION REQ: No, unless requested by the Planning Commission or Director.

TOWN COUNCIL ACTION REQUIRED: Yes, Environmental Assessment, EA 02-25; Ordinance No. XX, Specific Plan 01-04 Amendment #2, Conditional Use Permit, CUP 01-25 is subject to Town Council approval at future scheduled public hearings.

GENERAL PLAN CONSIDERATION:

The General Plan provides overall guidance and a comprehensive vision for the physical development of the entire Town. Specific Plans are typically used for large-scale projects that require a comprehensive approach to planning and infrastructure issues or areas that warrant customized regulatory guidance that is not present in the Town's Development Code. Specific plans address site-specific concerns and provide guidance for the design, use, and development of that site. The Yucca Valley Retail Specific Plan was adopted by Town Council at their meeting of October 14, 2008. The Town Council adopted Specific Plan 01-04, Amendment #1, at their meeting of November 16, 2021, to address minor changes to the master sign program of the anchor tenant building. The proposed project, including policy amendments to the specific plan and site improvements to add a fueling station and convenience store are internally consistent with the provisions of the General Plan.

DEVELOPMENT CODE CONSIDERATION:

The Specific Plan is the Zoning Designation for the property. Where the Specific Plan is silent, Development Code provisions apply. The proposed project, including policy amendments to the specific plan and site improvements to add a fueling station and convenience store are substantially consistent with the provisions of the Development Code, deviating from Development Code standards as outlined in the Specific Plan to address site-specific guidance for the design, use, and development of the site.

ENVIRONMENTAL CONSIDERATIONS:

An EIR was previously prepared for the project and adopted by Town Council on October 14, 2008. The proposed project includes adoption of the resolution for Addendum #1 to the previously adopted Environmental Impact Report consistent

with CEQA Section 15164.

CONCLUSION:
Based upon the facts on record, the project is consistent with the Town's General Plan, Development Code, and Specific Plan as recommended and conditioned.

CONDITIONAL USE PERMIT FINDINGS
A. That the location, size, design, density and intensity of the proposed development is consistent with the General Plan, the purpose of the land use district in which the site is located, and the development policies and standards of the Town;

The proposed project site is located in the Commercial (C) General Plan Designation. The proposed size, design, and land use are consistent with the General Plan, Development Code, and proposed Specific Plan requirements.

B. That the location, size, design and architectural design features of the proposed structures and improvements are compatible with the site's natural landform, surrounding sites, structures and streetscapes;

The proposed development features varying heights, materials, and colors, including dark gray cement, light gray fiber cement wall, and blue fiber cement wall. The proposed canopy consists of a blue, light gray, and white color palette on factory prefinished materials.

C. That the proposed development produces compatible transitions in the scale, bulk, coverage, density and character of the development between adjacent land uses;

The proposed structure is not anticipated to result in any architectural incompatibilities in terms of scale, bulk coverage, density, or character of surrounding land uses. The proposed canopy and convenience store structure is set back from the highway and adjacent structures and does not result in any architectural incompatibilities with its surroundings.

D. That the building site and architectural design is accomplished in an energy efficient manner;

The proposed project is required to meet all applicable California Building Code requirements for the type of commercial structure including the CALGreen requirements. As such, the building is anticipated to accomplish energy efficiency.

E. That the materials, textures and details of the proposed construction, to the extent feasible, are compatible with the adjacent and neighboring structures.

The proposed development features varying heights, materials, and colors, including dark gray cement, light gray fiber cement wall, and blue fiber cement wall. The proposed canopy consists of a blue, light gray, and white color palette on factory prefinished materials. The proposed canopy and convenience store structure is set back from the highway and adjacent structures and does not result in any architectural incompatibilities with its surroundings.

F. That the development proposal does not unnecessarily block views from other buildings or from public ways, or visually dominate its surroundings with respect to mass and scale to an extent unnecessary and inappropriate to the use.

The fueling station canopy is proposed at 17.67' height, with a 14' maximum vehicle clearance, and the convenience store is proposed at 16' height. Due to its height and setback from the adjoining right-of-way, the proposed project is not anticipated to visually dominate its surroundings or block views from other buildings or the public right of way. Incidental improvements to the existing pylon sign conform to the existing sign dimension and the proposed new monument sign is setback internally on-site from the SR-62 right-of-way.

G. That the amount, location, and design of open space and landscaping conforms to the requirements of the Development Code, enhances the visual appeal and is compatible with the design and functions of the structure(s), site and surrounding area;

The preliminary landscaping for the proposed project includes the following plants, identified by scientific name, common name, size, and quantity proposed, and other decorative ground cover: Chilopsis Linearis/Desert Willow (24" BOX)
- (QUANTITY 9), Pistacia Chinensis/Chinese Pistache (24" BOX) - (QUANTITY 14), Hesperaloe Parviflora/Red Yucca (5 GAL) - (QUANTITY 21), Leucophyllum Frutescens 'Compacta'/Compact Desert Ranger (5 GAL) - (QUANTITY 77),
Rosemarinus Officinalis 'Prostrate'/Prostrate Rosemary (5 GAL) - (QUANTITY 52), Ground Cover - Lantana X 'New Gold'/New Gold Lantana (1 GAL) - (QUANTITY 48), Ground Cover - 3" DEPTH MIN.
OF 1/4"-3/4" CRUSHED ROCK / TO MATCH EXISTING (6,649 SF), Ground Cover - 2" DEPTH DECOMPOSED GRANITE / COLOR AND SIZE TO MATCH EXISTING (6,124 SF), Ground Cover - EXISTING LANDSCAPE TO REMAIN (8,513 SF), and
Existing Tree To Be Removed - (QUANTITY 22).

The proposed project landscaping is required to comply with the California Model Water Efficiency Landscape Ordinance (MWELO). The proposed project therefore conforms to the requirements in the Town's Development Code as conditioned.

H. That quality in architectural design is maintained in order to enhance the visual environment of the Town and to protect the economic value of existing structures;

The structures are consistent with the Development Code and proposed Specific Plan and provide quality in architectural design consistent with the Commercial Design Guidelines.

I. That there are existing public facilities, services, and utilities available at the appropriate levels and/or that new or expanded facilities, services and utilities shall be required to be installed at the appropriate time to serve the project as they are needed;

The project is located in an area of developed commercial properties. Each utility provider charges connection and service fees which are designed to include the need for additional facilities as growth occurs. The project applicant will be required to pay these fees as applicable.

Electrical services are provided by Southern California Edison. Water services are provided by the Hi Desert Water District (HDWD). Solid Waste Services are provided by Burrtec, Inc. The Town of Yucca Valley requires mandatory solid waste services, and the project will be served by Burrtec.

J. That access to the site and circulation on and off-site is required to be safe and convenient for pedestrians, bicyclists, equestrians and motorists;

Onsite traffic circulation will be modified to accommodate the proposed fuel station improvements, eliminating the drive-aisle entrance at the NE corner of the overall parcel. ADA access is required to be provided to the public right-of-way and from the vehicle parking lot to the structures. To accommodate the proposed fuel station improvements, eliminating the drive-aisle entrance at the NE corner of the overall parcel. Points of off-site ingress and egress to SR-62 and adjoining streets are not proposed to be modified.

K. That traffic generated from the proposed project has been sufficiently addressed and mitigated and will not adversely impact the capacity and physical character of surrounding streets;

The traffic analysis for the proposed project identified up to 826 daily vehicle trips. Implementation of the TDM requirements under Mitigation Measure 4.3.2A would contribute to reducing vehicle miles traveled (VMT) under the proposed project. As a result, impacts associated with the construction of the proposed project would be less than significant and would not require any additional mitigation.

L. That traffic improvements and/or mitigation measures have been applied or required in a manner adequate to maintain a Level of Service C or better on arterial roads, where applicable, and are consistent with the Circulation Element of the Town General Plan;

The Certified EIR evaluated traffic operations using Level of Service (LOS) under the San Bernardino County CMP Traffic Impact Analysis Guidelines for both Opening Day (2007) and Year 2030 scenarios. Under Opening Day + Project conditions, five intersections would operate below the Town's LOS standard, constituting a significant impact. Significant and unavoidable impacts were identified for the original EIR and required mitigation was implemented. Mitigation measures related to level-of-service (LOS) are not applicable to the current project under CEQA.

M. That there will not be significant harmful effects upon environmental quality and natural resources including endangered, threatened, rare species, their habitat, including but not limited to plants, fish, insects, animals, birds or reptiles;

Significant and unavoidable impacts were identified for the original EIR and required mitigation was implemented. The proposed project is addressed by the proposed Addendum #1 consistent with CEQA Section 15164.

N. That there are no other relevant or anticipated negative impacts of the proposed use that cannot be mitigated and reduced to a level of non-significance in conformance with CEQA, the California Environmental Quality Act;

Significant and unavoidable impacts were identified for the original EIR and required mitigation was

implemented. The proposed project is addressed by the proposed Addendum #1 consistent with CEQA Section 15164.

O. That the impacts which could result from the proposed development, and the proposed location, size, design and operating characteristics of the proposed development, and the conditions under which it would be operated or maintained will not be detrimental to the public health, safety and welfare of the community or be materially injurious to properties or improvements in the vicinity or be contrary to the adopted General Plan;

Significant and unavoidable impacts were identified for the original EIR and required mitigation was implemented. The proposed project is addressed by the proposed Addendum #1 consistent with CEQA Section 15164.

P. That the proposed development will comply with each of the applicable provisions of this code, and applicable Town policies; except approved variances.

The project, as conditioned, complies with the standards and requirements of the Development Code, Specific Plan, and the policies and procedures of the Yucca Valley General Plan.

SPECIFIC PLAN REQUIRED FINDINGS

A. The proposed specific plan meets all of the following content criteria:

1. Specifies through text and/or diagrams, the distribution, location, and extent of the uses of land, including open space, within the area covered by the plan;
2. Specifies through text and/or diagrams, the proposed distribution, location, and extent and intensity of major components of public and private transportation, sewage, water, drainage, solid waste disposal, energy, and other essential facilities proposed to be located within the area covered by the plan and needed to support the land uses described in the plan;
3. Specifies through text and/or diagrams, the standards and criteria by which development will proceed, and standards for the conservation, development, and utilization of natural resources, where applicable;
4. Specifies a program of implementation measures including regulation, programs, public works projects, and financing measures necessary to carry out subsections A1, A2 and A3 of this section;
5. Includes a statement of the relationship of the specific plan to the general plan, development code, and any other applicable plan or ordinance;
6. Addresses any other subjects which are necessary for implementation of the general plan.

The proposed Specific Plan Amendment is consistent with the criteria identified above.

B. The location and design of the proposed development will be consistent with the goals and policies of the general plan and with any other applicable plan or policies adopted by the town and with any other applicable provisions of this development code.

The location and design of the proposed project is consistent with the goals and policies of the General Plan,

insofar as the Specific Plan promotes the diversification of commercial land uses in Town, and is located on Twentynine Palms Highway.

C. The proposed location will allow the development to be well integrated with or adequately buffered from its surroundings, whichever may be appropriate.

The proposed location will allow the development to be well integrated with its surroundings, insofar as the project will share access with the Home Depot and existing Walmart facilities, and its location on Twentynine Palms Highway facilitates access and circulation.

D. All vehicular traffic generated by the development, either in phased increments or at full build out, will be accommodated safely and without causing significantly increased congestion upon adjoining streets.

All vehicular traffic generated by the development will be accommodated safely and without causing significantly increased congestion upon adjoining streets, because the conditions of approval and the mitigation measures assure that adequate levels of service will be maintained at build out of the project.

E. The final specific plan will identify a methodology to allow land uses to be adequately serviced by existing or proposed public facilities and services. In appropriate circumstances, and as provided elsewhere by this development code, the town may require that suitable areas be reserved for uses such as schools, parks and pedestrianways; public open spaces may be dedicated or reserved by private covenant for the common use of residents, establishments or operations in the development.

The final specific plan will identify a methodology to allow land uses to be adequately serviced by existing or proposed public facilities and services, insofar as all services are available in the area, and the Specific Plan requires the extension of adequate infrastructure to provide all services to the site.

F. In accordance with the requirements of the California environmental quality act (CEQA), environmental impacts have been reduced to a level of nonsignificance; or in the case where such impacts remain, a statement of overriding considerations must be adopted to justify the merits of project implementation after certification of the environmental impact report.

In accordance with the requirements of the California Environmental Quality Act (CEQA), environmental impacts have been reduced to a level of insignificance wherever possible, and a statement of overriding considerations has been adopted to justify the merits of the implementation of the project after certification of the original EIR. The proposed project is addressed by the proposed Addendum #1 consistent with CEQA Section 15164.

G. The proposed specific plan shall contribute to a balance of land uses so that local residents may work and shop in the community in which they live.

The specific plan amendment will contribute to a balance of land uses so that local residents may work and shop in Town, because the project will add to the shopping opportunities, and provide new jobs for Town residents.

H. The proposed specific plan will not be detrimental to the public health, safety, or welfare of the town.

The specific plan amendment will not be detrimental to the public health, safety or welfare of the Town, insofar as its impacts and infrastructure requirements are to be mitigated by the applicant, and maintenance districts and other methods are included which assure long-term maintenance is not the responsibility of the Town.

Alternatives

None.

Fiscal Impact:

None.

Attachments

1. CUP 01-25 & EA 02-25 Wal-Mart Fuel Station - CUP Application 7-8-2025
2. CUP 01-25 & EA 02-25 Wal-Mart Fuel Station - Specific Plan Amendment Application 7-8-2025
3. CUP 01-25 & EA 02-25 Wal-Mart Fuel Station - Project Description and Existing Conditions Letter 7-8-2025
4. CUP 01-25 & EA 02-25 Wal-Mart Fuel Station - CUP Plans 7-8-2025
5. Walmart - Original Site Plan
6. WM Fuel 1915 - Yucca Valley - BOD
7. Yucca Valley Retail Specific Plan Amendment 4-14-2026
8. Yucca Valley Retail Specific Plan Appendix D Master Sign Program 4-14-2026
9. WalmartFuelStation_Final Addendum_wAppendices
10. TYV_WalmartFuelStation_MMRP_Final
11. Walmart Fuel Station NOD Signed 4-14-2026_OPT
12. Resolution TC 26-XX
13. Walmart Fuel Station Ordinance No. XXX-XX

Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

Conditional Use Permit Application

Date Received _____
By _____
Fee _____
Case # _____
EA # _____

General Information

APPLICANT Ryan Alvarez, P.E. Phone 714-786-6322
Mailing Address 1100 Town and Country Rd Suite 700 Email ryan.alvarez@kimley-horn.com
City Orange State CA Zip 92868

REPRESENTATIVE Ryan Alvarez, P.E. Phone _____
Mailing Address 1100 Town and Country Rd Suite 700 Email _____
City Orange State CA Zip 92868

PROPERTY OWNER Wal-mart Stores Inc. Phone _____
Mailing Address 702 SW 8th St Email _____
City Bentonville State AR Zip 72716

Project Information

Project Address 58501 Twenty Nine Palms Hwy Assessor Parcel Number(s) 0601201540000
Project Location Proposed project located at the North East side of Walmart parking lot.

Project Description: Walmart is proposing a new 1.21 Acres project. The proposed project includes the construction of a fuel station with 6 fueling dispensers with a canopy, a 1,556 square-foot convenience store which includes alcohol sales, and parking stalls within the existing parking lot of Wal-mart super center. Any proposed utilities will be underground, including the fuel tanks.

Please attach any additional information that is pertinent to the application.

Town of Yucca Valley
Community Development Department
58928 Business Center Drive
Yucca Valley, CA 92284
760 369-6575 Fax 760 228-0084
www.yucca-valley.org

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Environmental Assessment

1. Property boundaries, dimensions and area (also attach an 8 ½ x 11" site plan):
   property is 22.74 Acres. Bounded by 29 Palms Hwy on the north side, Avalon Ave and other commercials on the Wast, Palisade Dr on the South, and Home Depot and other commercials on the East.
2. Existing site zoning: C-G: General Commercial
3. Existing General Plan designation: C: Commercial
4. Precisely describe the existing use and condition of the site:
   The existing site is a Walmart supercenter
5. Existing Zoning of adjacent parcels:
   North R-M-8 South I East C-G West C-G
6. Existing General Plan designation of adjacent parcels:
   North C South I East C West C
7. Precisely describe existing uses adjacent to the site:
   North Single-family houses across 29 Palms Hwy
   South Vacant land
   East Home Depot and other general commercials
   West Restaurants and other general commercials
8. Describe the plant cover found on the site, including the number and type of all protected plants: The plant cover on the site is desert landscaping that utilizes the region and native species prior to development.
   No protected plants found on site.

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Note: Explain any "Yes" or '"Maybe" responses to questions below. If the information and responses are insufficient or not complete, the application may be determined incomplete and returned to the applicant.

Yes	Maybe	No	
☐	☐	☑	9. Is the Site on filled or slopes of 15% or more or in a canyon? (A geological and/or soils Investigation report is required with this application.)
☐	☐	☑	10. Has the site been surveyed for historical, paleontological or archaeological resources? (If yes, a copy of the survey report is to accompany this application.)
☐	☐	☑	11. Is the site within a resource area as identified in the archaeological and historical resource element?
☐	☐	☑	12. Does the site contain any unique natural, ecological, or scenic resources?
☐	☐	☑	13. Do any drainage swales or channels border or cross the site?
☑	☐	☐	14. Has a traffic study been prepared? (If yes, a copy of the study is to accompany this application.)
☐	☐	☑	15. Is the site in a flood plain? (See appropriate FIRM)

Project Description Proposed fuel station with 6 dispensers, and associated 1,556 SF Convenience Store

Complete the items below as they pertain to your project. Attach any other supplemental information that will assist in the review of the proposed project pursuant to CEQA.

1. **Commercial, Industrial, or Institutional Projects:**

   A. Specific type of use proposed: Gasoline dispensing station

   B. Gross square footage by each type of use: approximately 52,707 sq. ft.

   C. Gross square footage and number of floors of each building: 1,556 sq. ft. one story convenience store.

   D. Estimate of employment by shift: 6AM-2PM, 2PM-10PM

   E. Planned outdoor activities: N/A

2. **Percentage of project site covered by:**

   Paving 85.6 % Building 2.8 % Landscaping 11.6 % Parking 4.8 %

3. **Maximum height of structures** 17.67 foot canopy

4. **Amount and type of off street parking proposed**: 14 standard stalls and 1 ADA stall

5. **How will drainage be accommodated?** The site will following existing drainage matters where water surface flows to existing drains except for the fueling pad and surface of storage tanks. These ares will drain to 2 proposed inlets where it will flow through an oil water separator.

6. **Off-site construction (public or private) required to support this project:** N/A

7. **Preliminary grading plan estimate of cut and fill** Cut: 150 Cu. Yards, Fill: 225 Cubic Yards

8. **Description of project phasing if applicable:** N/A

9. **Is this project part of a larger project previously reviewed by the Town? If yes, identify the review process and associated project title(s)** Yes, an existing Wal-Mart Supercenter
   Project Title: Wal-Mart #1915-04

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11. During construction, will the project: (Explain any "yes" or "maybe" responses to questions below – attach extra pages if necessary.)

Yes	Maybe	No	
☐	☑	☐	A. Emit dust, ash, smoke, fumes or odors?
☐	☐	☑	B. Alter existing drainage patterns?
☐	☑	☐	C. Create a substantial demand for energy or water?
☐	☐	☑	D. Discharge water of poor quality?
☐	☐	☑	E. Increase noise levels on site or for adjoining areas?
☐	☐	☑	F. Generate abnormally large amounts of solid waste or litter?
☑	☐	☐	G. Use, produce, store, or dispose of potentially hazardous materials such as toxic or radioactive substances, flammable or explosives?
☐	☐	☑	H. Require unusually high demands for such services as police, fire, sewer, schools, water, public recreation, etc.
☐	☐	☑	I. Displace any residential occupants?

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Owner/Applicant Authorization

Applicant/Representative: I/We have reviewed this completed application and the attached material. The information included with this application is true and correct to the best of my/our knowledge. I/We further understand that the Town may not approve the application as submitted, and may set conditions of approval. Further, I/We understand that all documents, maps, reports, etc., submitted with this application are deemed to be public records. This application does not guarantee approval or constitute a building permit application. Additional fees may be required depending on additional administrative costs.

Signature: _____

Name: Ryan Alvarez, P.E.

Date: 06/03/2025

Property Owner: I/We certify that I/We are presently the legal owner(s) of the above described property (If the undersigned is different from the legal property owner, a letter of authorization must accompany the form). Further, I/We acknowledge the filing of this application and certify that all of the above information is true and accurate. I/We understand that I/We are responsible for ensuring compliance with conditions of approval. I/We hereby authorize the Town of Yucca Valley and or/its designated agent(s) to enter onto the subject property to confirm the location of existing conditions and proposed improvements including compliance with applicable Town Code Requirements. Further, I/We understand that all documents, maps, reports, etc., submitted with this application are deemed to be public records. This application does not guarantee approval or constitute a building permit application. Additional fees may be required depending on additional administrative costs. I am hereby authorizing Ryan Alvarez to act as my agent and is further authorized to sign any and all documents on my behalf.

Signature: DocuSigned by: _____ 748AEE87E09C430...

Name: CARLA HACKETT

Date: 6/5/2025

The Town of Yucca Valley is hereby granted release to copy and reproduce electronically, in whole or in part, drawings and all other materials submitted with this development application including phone numbers, addresses and e-mail addresses, for the Town's regulatory, administrative, and legal functions, including sharing of information with other governmental entities and for compliance with the California Public Records Act (CPRA). If any of these statements cannot be affirmatively acknowledged, please inform the planner before submitting a development application.

Signature: _____

Name: Ryan Alvarez, P.E.

Date: 06/02/2025

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Agreement to Pay All Development Application Fees

In accordance with Town Council Resolution 24-07 the Town collects certain fees based on the actual cost of providing service. The application deposit for this project (as indicated below) may not cover the total cost of processing this application. I/We are aware that if the account has 25% or less remaining prior to completion of the project, staff will notify the undersigned in writing, of the amount of additional deposit required to complete the processing of the application, based on Staff's reasonable estimate of the hours remaining to complete this application process.

Further, I understand that if I do not submit the required additional deposit to the Town within 15 business days from the date of notification by the Town, the Town will cease processing of the application and/ or not schedule the project for action by the Planning Commission or Town Council until the fees have been paid.

Any remaining deposit will be refunded to me at time of closeout after I have submitted any required approved project plans and forms, including signed conditions of approval, or upon my written request to withdraw the application.

As the applicant, I understand that I am responsible for the cost of processing this application and I agree that the actual costs incurred processing this application will be paid to the Town of Yucca Valley.

Deposit Paid: 8,391

Applicants Name Ryan Alvarez

Applicant's Signature

Date: 8/05/2024

(Please print)

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Conditional Use Permit Application Submittal Requirements

Initial Submittal Requirements	# Required
Completed and Signed Applications and Filing Fee	1
Project Description and Existing Conditions Letter	1
Signed completed Environmental Information form	1
Signed Agreement for Cost Recovery	1
Signed Hazardous Waste Site Statement	1
Preliminary Title Report within 60 days of application date	1
Grant Deeds for all involved properties	1
Site Plan (See Section A)	5
Floor Plans	5
Building elevations, including a minimum of one (1) color set	5
Preliminary Grading and Drainage Plan (Section B)	5
Detailed slope analysis if project contains any slopes of 15 percent or greater	5
Preliminary Landscape Plans	5
Native Plant Plan	5
Photometric Plan	5
Exterior Lighting Cutsheets	1
Utility Plan including location and capacity	5
Materials Board	1
8 1/2 x 11 reductions of all plans	1
Applicable utility service availability letters	1
Water purveyor service letter or ground water report prepared and signed by a registered civil engineer	1
Signed statement indicating method of sewage disposal and if Regional Water Quality Control Board approval is required	1
Signed surrounding property owners list certification	1
Surrounding property owners mailing list and labels	2
Surrounding properties radius map showing project site	1
Underlying Conditions of Approval (if applicable)	1
Copy of underlying Recorded Map and Environmental Constraints Sheet (if applicable)	1
Planned Development Document (if applicable)	2
Specific Plan (if applicable)	2
All maps, plans, special studies, reports, etc. submitted in hard copy as part of this application are also to be delivered electronically, by CD, flash drive or email at time of submittal.	1
Upon review of the initial submittal, the Town will determine which of the following studies will be required for the project:	
Air Quality and Greenhouse Gas Inventory/Analysis	2
Archaeological Survey	2
Biological Report to include Native Plant Inventory and Focused Desert Tortoise	2
Geological Report, if property is located within an Alquist Priolo zone	2
Geotechnical/Soils Report	2
Hydrology Report prepared by a registered Civil Engineer	2
Noise Study	2
Traffic Study/Analysis prepared by a registered Civil Engineer	2
Please note that each project and each property are unique. Some projects may not require the submittal of each item listed above at time of submittal. Some circumstances may require items not included on the above list. Please contact Planning Staff if you have any questions.	

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Plan Preparation and Guidelines

All plans shall be drawn on uniform sheets no less than 24" X 36" (or as approved by the Community Development Department). All plans must be collated, stapled and folded as close as possible to 8 ½" x 11" notebook size. All plans shall be clear, legible and accurately scaled. The site plan, preliminary landscape plan, photometric plan, building elevations and native plant plan should all be at the **same** scale and shall be consistent with each other.

Section A. Site Plan Content

Scale: Engineering scale not to exceed 1"=100'.

The following information shall be included on the plan:

- Data table formatted in the following order:
  - Assessor's Parcel Number(s) (book, page and parcel number)
  - Legal description
  - Existing and proposed zoning designation
  - Existing and proposed General Plan designation
  - Specific Plan identification and land use designation (if applicable)
  - Existing and proposed land use
  - Total Gross Area: square feet and acres
  - Total Net Area: square feet and acres
  - Name of utility purveyors and type of sewage disposal

- Name, address, phone number, and email of applicant, owner and registered civil engineer or licensed surveyor.
- Graphic scale (with bar scale) and north arrow
- North arrow (make top of map north)
- Vicinity map with labeled streets
- Date plan prepared
- Revision block indicating date when plan is revised through the development review process
- Surrounding information for adjoining properties including zoning and land use
- Existing buildings and traveled ways within the proposed project and within 100 feet of the exterior boundaries.
- Property lines, dimensions (metes & bounds) and location of adjoining lot lines.
- The locations, names and existing widths of all highways, streets, or easements within 100 feet of the project boundaries that provide legal access to the property.
- The location of existing wells, cesspools, sewers, culverts, drain pipes, underground structures, or excavated areas within 100 feet of any portion of the project noting thereon whether or not they are to be abandoned, removed, or remain in operation.
- The location of all existing and proposed fire hydrants.
- Location of on-site utilities and locations of existing public utilities including sanitary sewers, water mains and storm drains.

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- The approximate location of all areas subject to storm water overflow, inundation or flood hazard (indicate limits of FEMA floodplain and floodway), and the location and direction of flow of each watercourse.
- Delineation of special hazard zones (i.e., earthquake faults, liquefaction zones, etc.).
- If the site is proposed to be developed in phases, the proposed sequence of phasing shall be provided.

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Section B. Preliminary Grading Plan Content

Scale: Engineering scale not to exceed 1"=40'.

The following grading information shall be included on the plan:

- Title Block
  - Name, address, phone, and email address of applicant, owner, and engineer
- Legend, north arrow, bar and graphic scale
- Data Table
  - Assessor's Parcel Number(s)
  - Project Name
  - Legal Description (i.e. Tract/Parcel Map and lot(s)/parcel(s))
  - Approximate earthwork quantities (CY), include cut and fill
  - Date and Source of Topography (should be current)

- Preliminary pad elevations
- Minimum 1-foot contour interval
- Drainage facilities
- Existing and proposed easements, property lines, rights-of-way
- Overall cut and fill cubic yards (quantity to be called out on the plan)
- Vicinity map, bar and graphic scale
- Existing and proposed improvements within and 50' beyond the site boundaries (label those proposed to remain or to be removed)
- Shade pavement areas and fill slopes 3:1 or steeper
- Streets; typical cross-sections to show existing and proposed improvements, utilities, right-of-way, etc.
- Limits of FEMA floodplain and floodway
- Delineate open space areas
- Delineation of special hazard zones (i.e., earthquake faults, liquefaction zones, etc.)
- Existing topography at least fifty (50) feet beyond project boundary including natural features to be preserved.
- Proposed street grades with arrows indicating the direction of flow.

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Property Owners Mailing List

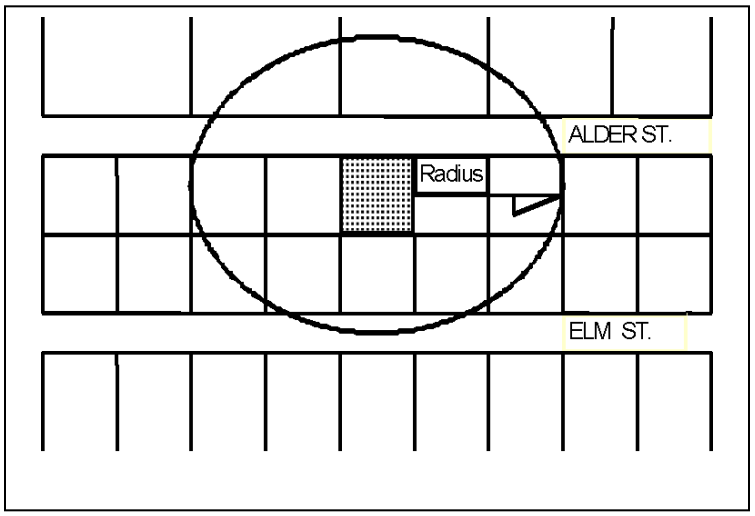
All applications that are subject to a Public Hearing require the applicant to submit a list of property owners who own property contiguous to and within 300 feet of the project site. This process is required by Section 83.010330 of the Development Code to notify residents and property owners in the immediate vicinity. Staff will send public notices to these individuals informing them of the proposed project and scheduled public hearings.

The surrounding property owner information must be obtained from the most current San Bernardino County Assessor's roll or shall be prepared and verified by a title company doing business in San Bernardino County. A County Assessor's office is located at 63665 29 Palms Hwy in Joshua Tree. The general telephone number for the Assessor's office is 760-366-1420.

MATERIALS REQUIRED:

- Two (2) sets of adhesive labels containing the mailing address of the owner(s), applicant(s) and of all surrounding property owners, including vacant properties. Mailing labels must contain: Assessor's Parcel Number, property owners name, address and zip code.
- One (1) copy of the labels sheets.
- One (1) radius map showing the subject property and all surrounding properties. The appropriate radius shall be drawn from the exterior boundaries of the subject property as shown in the sample below. The scale of the radius map shall be large enough to clearly show all surrounding properties.
- One (1) electronic copy of all submitted materials.

Sample Vicinity/Radius Map



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SURROUNDING PROPERTY OWNERS LIST CERTIFICATION

(To be submitted with application)

I, Ryan Alvarez , certify that on 8/05/2024 the attached property owners list was prepared by Kimley-Horn & Associates Inc. pursuant to the requirements of the Town of Yucca Valley. Said list is a complete compilation of the owner(s), applicant(s) and representative of the subject property and all owners of surrounding properties within a radius of 300 feet from all exterior boundaries of the subject property and is based on the latest equalized assessment rolls of the San Bernardino County Assessor's Office dated 06/28/2024 . I further certify that the information filed is true and correct to the best of my knowledge; I understand that incorrect and erroneous information may be grounds for rejection or denial of the development application.

Signed: _____

Print Name: Ryan Alvarez Date: 8/05/2024

Developer Disclosure Statement

This portion of the application must be fully completed and signed by the applicant. If not fully completed and signed, the application will be deemed incomplete.

Address of subject property: 58501 Twentynine Palms Hwy, Yucca Valley, CA 92284, United States

Cross street: Avalon Avenue

Date this Disclosure Statement is completed: _____

Name of Applicant: Ryan Alvarez

The Applicant is a:

- ☐ Limited Liability Company (LLC)
- ☐ Partnership
- ☐ Corporation
- ☒ None of the above

Information for LLC, Partnership, Corporation

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

State of Registration _____

Managing member(s), General Partner(s) officer(s)

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

Attach additional sheets if necessary

Agent for Service of Process

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

For Corporations, Shareholder with Fifty Percent or More Share or Controlling Shareholder

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

The Owner is a:

- [x] Limited Liability Company (LLC)
- [ ] Partnership
- [ ] Corporation
- [ ] None of the above

Information for LLC, Partnership, Corporation

Name Wal-Mart Stores, Inc. Phone

Mailing Address 702 SW 8th St. Email

City Bentonville State AR Zip 72716

State of Registration Delaware

Managing member(s), General Partner(s) officer(s)

Name CARLA HACKETT Phone 479-586-9989

Mailing Address 702 SW 8th St. Email Carla.Hackett@walmart.com

City Bentonville State AR Zip 72716

Attach additional sheets if necessary

DocuSigned by:
748AEE87E09C430...
6/5/2025

Agent for Service of Process

Name Phone

Mailing Address Email

City State Zip

For Corporations, Shareholder with Fifty Percent or More Share or Controlling Shareholder

Name Phone

Mailing Address Email

City State Zip

Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

The Party in escrow is a (if property is in escrow):- N/A - Wal-Mart Store, Inc Owns the Application Property

- ☐ Limited Liability Company (LLC)
- ☐ Partnership
- ☐ Corporation
- ☐ None of the above

Information for LLC, Partnership, Corporation

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

State of Registration _____

Managing member(s), General Partner(s) officer(s)

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

Attach additional sheets if necessary

Agent for Service of Process

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

For Corporations, Shareholder with Fifty Percent or More Share or Controlling Shareholder

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

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For any deeds of trust or other liens on the property (other than real property tax liens) please state the following:

A. Name of beneficiary of the deed of trust or lien _____

B. Date of the deed of trust or lien. _____

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed on the date and location set forth below

DocuSigned by:
748AEE87E09C430...

Signature

Print Name CARLA HACKETT

Title: Sr Manager II

Date of signing 6/5/2025

Location: Bentonville AR

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Hazardous Waste and Substance Sites

Government Code Section 65962.5 requires each applicant for any development project to consult the State List of Hazardous Waste and Substance Sites. Based upon the list, the applicant/representative is required to submit a signed statement to the Town of Yucca Valley indicating whether the project is located on a site which is included on the list before the Town accepts the application as complete. If the project is listed by the State as a hazardous waste or substance site, the applicant must fully describe on the "Environmental Information Form" the nature of the hazard and the potential environmental impact. Attached is a standard statement for the applicant to sign.

The State list of Hazardous Waste and Substance Sites (which is annually updated) may be reviewed at the following web site address:

http://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm

Attachment: Hazardous Waste Site Statement

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HAZARDOUS WASTE SITE STATEMENT

I have been informed by the Town of Yucca Valley of my responsibilities, pursuant to California Government Code Section 65962.5, to notify the Town as to whether the site for which a development application has been submitted is located within an area which has been designated as the location of a hazardous waste site by the Office of Planning and Research, State of California (OPR).

I am informed and believe that the proposed site, for which a development application has been submitted, is not within any area specified in said Section 65962.5 as a hazardous waste site.

I declare under penalty of perjury of the laws of the State of California that the foregoing is true and correct.

Dated: 8/05/2024

Ryan Alvarez

Applicant/Representative printed name

Applicant/Representative signature

Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

Special Studies

In order to ensure a project will comply with applicable local, State and Federal requirements, special studies or reports may be required for a project. These special studies can include biological, hydrologic, soils, geotechnical, noise, photometric, traffic, etc. Some of these studies are valid for a limited period of time. The following information is intended to provide some basic information on the types of studies that may be necessary based upon the project

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A General Biological Assessment is typically required for projects that have seen little or no disturbance. The report generally includes a focused tortoise survey and burrowing owl habitat assessment. The desert tortoise is protected under both state and federal law. The burrowing owl is listed as a species of special concern by the state Fish and Game Department. Together this study helps to evaluate the site and recommend mitigation measures to help avoid impacts to biological resources if required.

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Specific Plan Application

☐ New Application

☒ Amendment #2

Date Received _____
By _____
SP Case # _____
EA # _____
SP Fee _____ EA Fee _____

General Information

APPLICANT Ryan Alvarez, P.E. Phone 714-786-6322

Mailing Address 1100 W Town and Country Rd, STE 700 Email ryan.alvarez@kimley-horn.com

City Orange State CA Zip 92868

REPRESENTATIVE Ryan Alvarez, P.E. Phone [signature]

Mailing Address 1100 W Town and Country Rd, STE 700 Email _____

City Orange State _____ Zip _____

PROPERTY OWNER Wal-Mart Stores, Inc. Phone _____

Mailing Address 702 SW 8th Street Email _____

City Bentonville State AR Zip 72716

Project Information

Project Address 58501 Twenty-Nine Palms Hwy Assessor Parcel Number(s) 0601201540000

Project Location Proposed project located on the North East side of Wal-mart parking lot

Project Description: Wal-Mart is proposing a new 1.21 acre project. The proposed project includes the construction of a fuel station with 6 fueling dispensers, with a canopy a 1,556 square foot convenience store which includes alcohol and parking. Associated utility work and underground fuel storage is proposed.

Please attach any additional information that is pertinent to the application.

Environmental Assessment

1. Property boundaries, dimensions, and area (also attach an 8 ½ x 11" site plan):

   Property is 22.74 acres bound by 29 Palms Highway on the north, Avalon Ave on the west, Palisade Dr. to the south, and Home Depot on the east.

2. Existing site zoning: C-G: Commercial

3. Existing General Plan designation: C: Commercial

4. Precisely describe the existing use and condition of the site: The existing site is a walmart supercenter

5. Existing Zoning of adjacent parcels:

   North R-M-8 South I East C-G West C-G

6. Existing General Plan designation of adjacent parcels:

   North C South I East C West C

7. Precisely describe existing uses adjacent to the site: Single family housing, vacant land
   Home Depot, General Commercial, Restaurants

8. Describe the plant cover found on the site, including the number and type of all protected plants: The plant cover on site is desert landscaping that utilizes the region and native species prior to development. No protected plants found on site.

Note: Explain any "Yes" or '"Maybe" responses to questions below. If the information and responses are insufficient or not complete, the application may be determined incomplete and returned to the applicant.

Yes	Maybe	No	
☐	☐	☒	9. Is the Site on filled or slopes of 15% or more or in a canyon? (A geological and/or soils Investigation report is required with this application.)
☐	☐	☒	10. Has the site been surveyed for historical, paleontological, or archaeological resources? (If yes, a copy of the survey report is to accompany this application.)
☐	☐	☒	11. Is the site within a resource area as identified in the archaeological and historical resource element?
☐	☐	☒	12. Does the site contain any unique natural, ecological, or scenic resources?
☐	☐	☒	13. Do any drainage swales or channels border or cross the site?
☒	☐	☐	14. Has a traffic study been prepared? (If yes, a copy of the study is to accompany this application.)
☐	☐	☒	15. Is the site in a flood plain? (See appropriate FIRM)

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Project Description

Complete the items below as they pertain to your project. Attach a copy of any plans submitted as part of the project application and any other supplemental information that will assist in the review of the proposed project pursuant to CEQA.

1. **Commercial, Industrial, or Institutional Projects:**

   A. Specific type of use proposed: Gasoline Dispensing Station, convenience store

   B. Gross square footage by each type of use: approximately 52707 Sq ft, 1,556 sq ft

   C. Gross square footage and number of floors of each building: 1,556 sq ft, one story

   D. Estimate of employment by shift: 6AM-2PM, 2PM-10PM

   E. Planned outdoor activities: N/A

2. **Percentage of project site covered by:**

   80.8 % Paving, 2.8 % Building, 11.6 % Landscaping, 4.8 % Parking

3. **Maximum height of structures** 17 ft. 8 in.

4. **Amount and type of off street parking proposed**: 14 Standard, 1 ADA

5. **How will drainage be accommodated?** The site will follow existing drainage patterns where the water surface flows to existing drains except for the fueling pad/tanks. The areas will drain to two pro[posed inlets where it will flow through an oil/water separator.

6. **Off-site construction (public or private) required to support this project:** N/A

7. **Preliminary grading plans estimate** 150 **cubic yards of cut and** 225 **cubic yards of fill**

8. **Description of project phasing if applicable:** N/A

9. **Permits or public agency approvals required for this project**:

10. **Is this project part of a larger project previously reviewed by the Town? If yes, identify the**

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review process and associated project title(s)

Yes, an existing Wal-Mart Supercenter. Project Title: Walmart #1915-04

11. During construction, will the project: (Explain any "yes" or "maybe" responses to questions below – attach extra pages if necessary.)

Yes	Maybe	No		
☐	☒	☐	A.	Emit dust, ash, smoke, fumes, or odors?
☐	☐	☒	B.	Alter existing drainage patterns?
☐	☒	☐	C.	Create a substantial demand for energy or water?
☐	☐	☒	D.	Discharge water of poor quality?
☐	☐	☒	E.	Increase noise levels on site or for adjoining areas?
☐	☐	☒	F.	Generate abnormally large amounts of solid waste or litter?
☒	☐	☐	G.	Use, produce, store, or dispose of potentially hazardous materials such as toxic or radioactive substances, flammable or explosives?
☐	☐	☒	H.	Require unusually high demands for such services as police, fire, sewer, schools, water, public recreation, etc.
☐	☐	☒	I.	Displace any residential occupants?

Certification

I hereby certify that the information furnished above, and in the attached exhibits, is true and correct to the best of my knowledge and belief.

Signature: Date: 06/02/2025

Ryan Alvarez, P.E.

Owner/Applicant Authorization

Applicant/Representative: I/We have reviewed this completed application and the attached material. The information included with this application is true and correct to the best of my/our knowledge. I/We further understand that the Town may not approve the application as submitted, and may set conditions of approval. Further, I/We understand that all documents, maps, reports, etc., submitted with this application are deemed to be public records. This application does not guarantee approval or constitute a building permit application. Additional fees may be required depending on additional administrative costs.

Signed:

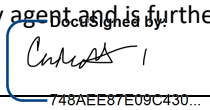
Name: Ryan Alvarez

Date: 06/02/2025

Property Owner: I/We certify that I/We are presently the legal owner(s) of the above described property (If the undersigned is different from the legal property owner, a letter of authorization must accompany the form). Further, I/We acknowledge the filing of this application and certify that all of the above information is true and accurate. I/We understand that I/We are responsible for ensuring compliance with conditions of approval. I/We hereby authorize the Town of Yucca Valley and or/its designated agent(s) to enter onto the subject property to confirm the location of existing conditions and proposed improvements including compliance with applicable Town Code Requirements. Further, I/We understand that all documents, maps, reports, etc., submitted with this application are deemed to be public records. This application does not guarantee approval or constitute a building permit application. Additional fees may be required depending on additional administrative costs. I am hereby authorizing

Ryan Alvarez, P.E.

to act as my agent and is further authorized to sign any and all documents on my behalf.

Signed: DocuSigned by: 
748AEE87E09C430...

Name: CARLA HACKETT

Dated: 6/5/2025

Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

Specific Plan Application Submittal Requirements

Initial Submittal Requirements	# Required
Completed and Signed Applications and Filing Fee	1
Signed completed Project Description and Existing Conditions Letter	1
Signed completed Environmental Information form	1
Signed Agreement for Cost Recovery	1
Signed surrounding property owners list certification	1
Surrounding Property Owners Mailing List and labels	2
Surrounding properties radius map showing project site	1
8 1/2 x 11 reductions of all plans	1
Preliminary Title Report within 60 days of application date	1
Grant Deeds for all involved properties	1
Signed Hazardous Waste Site Statement	1
Underlying Conditions of Approval (if applicable)	1
Copy of underlying Recorded Map and Environmental Constraints Sheet (if applicable)	1
Specific Plan (if applicable)	2
All maps, plans, special studies, reports, etc. submitted in hard copy as part of this application are also to be delivered electronically, by CD, flash drive or email at time of submittal.	1
Please note that each project and each property are unique. Some projects may not require the submittal of each item listed above at time of submittal. Some circumstances may require items not included on the above list. Please contact Planning Staff if you have any questions.	

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Agreement to Pay All Development Application Fees

In accordance with Town Council Resolution 24-07 the Town collects certain fees based on the actual cost of providing service. The application deposit for this project (as indicated below) may not cover the total cost of processing this application. I/We are aware that if the account has 25% or less remaining prior to completion of the project, staff will notify the undersigned in writing, of the amount of additional deposit required to complete the processing of the application, based on Staff's reasonable estimate of the hours remaining to complete this application process.

Further, I understand that if I do not submit the required additional deposit to the Town within 15 business days from the date of notification by the Town, the Town will cease processing of the application and/ or not schedule the project for action by the Planning Commission or Town Council until the fees have been paid.

Any remaining deposit will be refunded to me at time of closeout after I have submitted any required approved project plans and forms, including signed conditions of approval, or upon my written request to withdraw the application.

As the applicant, I understand that I am responsible for the cost of processing this application and I agree that the actual costs incurred processing this application will be paid to the Town of Yucca Valley.

Deposit Paid: $ _____

Applicant's Signature Date: 06/02/2025

Applicants Name Ryan Alvarez
(Please print)

Any and all remaining funds shall be refunded to:

_____

_____

_____

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Property Owners Mailing List

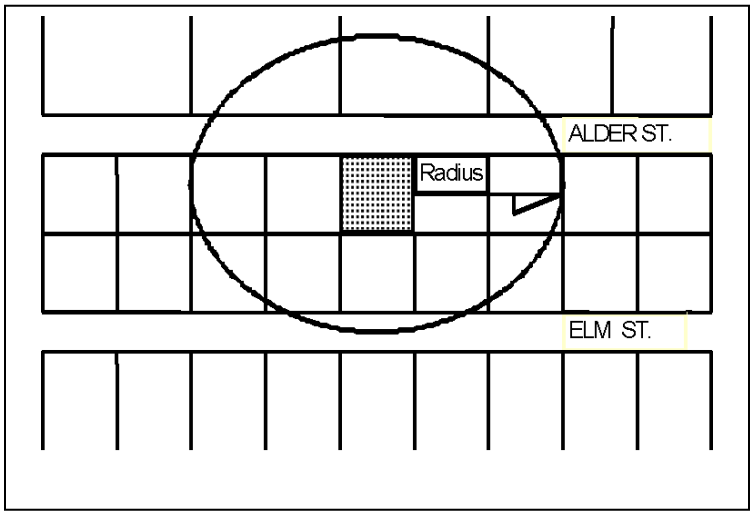
All applications that are subject to a Public Hearing require the applicant to submit a list of property owners who own property contiguous to and within 300 feet of the project site. This process is required by Section 83.010330 of the Development Code to notify residents and property owners in the immediate vicinity. Staff will send public notices to these individuals informing them of the proposed project and scheduled public hearings.

The surrounding property owner information must be obtained from the most current San Bernardino County Assessor's roll or shall be prepared and verified by a title company doing business in San Bernardino County. A County Assessor's office is located at 63665 Twentynine Palms Highway in Joshua Tree. The general telephone number for the Assessor's office is 760-366-1420.

MATERIALS REQUIRED:

- Two (2) sets of adhesive labels containing the mailing address of the owner(s), applicant(s) and of all surrounding property owners, including vacant properties. Mailing labels must contain: Assessor's Parcel Number, property owner's name, address, and zip code.
- One (1) copy of the label sheets.
- One (1) radius map showing the subject property and all surrounding properties. The appropriate radius shall be drawn from the exterior boundaries of the subject property as shown in the sample below. The scale of the radius map shall be large enough to clearly show all surrounding properties.
- One (1) electronic copy of all submitted materials.

Sample Vicinity/Radius Map



Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

SURROUNDING PROPERTY OWNERS LIST CERTIFICATION
(To be submitted with application)

I, Ryan Alvarez , certify that on 06/02/2025 the attached property owners list was prepared by Kimley-Horn & Associates pursuant to the requirements of the Town of Yucca Valley. Said list is a complete compilation of the owner(s), applicant(s) and representative of the subject property and all owners of surrounding properties within a radius of 300 feet from all exterior boundaries of the subject property and is based on the latest equalized assessment rolls of the San Bernardino County Assessor's Office dated 06/28/2024 . I further certify that the information filed is true and correct to the best of my knowledge; I understand that incorrect and erroneous information may be grounds for rejection or denial of the development application.

Signed: _____

Print Name: Ryan Alvarez Date: 06/02/2025

Developer Disclosure Statement

This portion of the application must be fully completed and signed by the applicant. If not fully completed and signed, the application will be deemed incomplete.

Address of subject property: 58501 Twentynine Palms Hwy, Yucca Valley, CA 92284, United States

Cross street: Avalon Avenue

Date this Disclosure Statement is completed: 06/02/2025

Name of Applicant: Ryan Alvarez

The Applicant is a:

- ☐ Limited Liability Company (LLC)
- ☐ Partnership
- ☐ Corporation
- ☒ None of the above

Information for LLC, Partnership, Corporation

Name _____ Phone _____

Mailing Address _____ Email _____

City Bentonville State _____ Zip _____

State of Registration Delaware

Managing member(s), General Partner(s) officer(s)

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

Attach additional sheets if necessary

Agent for Service of Process

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

For Corporations, Shareholder with Fifty Percent or More Share or Controlling Shareholder

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

The Owner is a:

- ☒ Limited Liability Company (LLC)
- ☐ Partnership
- ☐ Corporation
- ☐ None of the above

Information for LLC, Partnership, Corporation

Name Wal-Mart Store, Inc. Phone _____

Mailing Address 702 SW 8th Street Email _____

City Bentonville State AR Zip 72716

State of Registration Delaware

Managing member(s), General Partner(s) officer(s)

Name CARLA HACKETT Phone 479-586-9989

Mailing Address 702 SW 8th Street Email Carla.Hackett@walmart.com

City Bentonville State AR Zip 72716

Attach additional sheets if necessary

DocuSigned by:
748AEE87E09C430...
6/5/2025

Agent for Service of Process

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

For Corporations, Shareholder with Fifty Percent or More Share or Controlling Shareholder

Name _____ Phone _____

Mailing Address _____ Email _____

City _____ State _____ Zip _____

Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

The Party in escrow is a (if property is in escrow): N/A - Property is owned by Wal-mart Stores, Inc. currently

- ☐ Limited Liability Company (LLC)
- ☐ Partnership
- ☐ Corporation
- ☐ None of the above

Information for LLC, Partnership, Corporation

Name _____ Phone _____

Mailing Address _____ Email _____

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For any deeds of trust or other liens on the property (other than real property tax liens) please state the following:

A. Name of beneficiary of the deed of trust or lien _____

B. Date of the deed of trust or lien. _____

I certify under penalty of perjury under the laws of the State of California that the foregoing is true and correct. Executed on the date and location set forth below

_____

Signature

Print Name Ryan Alvarez

Title: P.E.

Date of signing 06/02/2025

Location: 1100 W Town and Country Rd, Orange, CA 92868

Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

Hazardous Waste and Substance Sites

Government Code Section 65962.5 requires each applicant for any development project to consult the State List of Hazardous Waste and Substance Sites. Based upon the list, the applicant/representative is required to submit a signed statement to the Town of Yucca Valley indicating whether the project is located on a site which is included on the list before the Town accepts the application as complete. If the project is listed by the State as a hazardous waste or substance site, the applicant must fully describe on the "Environmental Information Form" the nature of the hazard and the potential environmental impact. Attached is a standard statement for the applicant to sign.

The State list of Hazardous Waste and Substance Sites (which is annually updated) may be reviewed at the following web site address:

http://www.dtsc.ca.gov/SiteCleanup/Cortese_List.cfm

Attachment: Hazardous Waste Site Statement

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HAZARDOUS WASTE SITE STATEMENT

I have been informed by the Town of Yucca Valley of my responsibilities, pursuant to California Government Code Section 65962.5, to notify the Town as to whether the site for which a development application has been submitted is located within an area which has been designated as the location of a hazardous waste site by the Office of Planning and Research, State of California (OPR).

I am informed and believe that the proposed site, for which a development application has been submitted, is not within any area specified in said Section 65962.5 as a hazardous waste site.

I declare under penalty of perjury of the laws of the State of California that the foregoing is true and correct.

Dated: 06/02/2025

Ryan Alvarez, P.E.

Applicant/Representative printed name

Applicant/Representative signature

Docusign Envelope ID: CF24FD7B-25BD-4AB1-94E2-DA5535358A55

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Memorandum

To: Town of Yucca Valley, Community Development

From: Ryan Alvarez – Project Manager– Kimley-Horn

Date: June 24, 2025

Subject: Wal-Mart Fuel Station – Town of Yucca, CA - #1915
58501 Twentynine Palms Hwy., Yucca Valley, CA 92284

The proposed project is located at the existing Wal-Mart development at 58501 Twentynine Palms Hwy., Yucca Valley. The project area sits at the Northeast corner of the Wal-Mart parcel. The existing conditions of the project site are a developed asphalt paved parking lot, curbed landscaping, concrete walkways, storm infrastructure leading to a retention basin and underground utilities nearby. The existing zoning for this parcel is CG- General Commercial and will remain the same. General Plan Designation is (C) Commercial and will remain the same. The existing land use is General Retail Merchandiser and will be changed to include Gas Station with Convenience Store.

The proposed project includes the construction of a new fuel station with six fueling pumps (12 dispensers), an overhead canopy, underground fuel storage, a trash enclosure, and a 1,556 square-foot convenience store. This project is over an approximate area of 1.32 acres. The overhead canopy stands at 17.67 feet, and the convenience store stands at 16 feet. The proposed work includes heavy duty asphalt pavement, heavy duty concrete pavement, concrete walkways to the existing accessible path and bus stop, landscaping, additional storm infrastructure and additional dry utility for the convenience store. The proposed underground sewer will connect to the existing sewer infrastructure of the main store. The convenience store will mimic the hours of the existing Wal-Mart supercenter, 6AM-11PM, but the gas station will remain operational 24 hours, 7 days a week. The convenience store is expected to have two employees at a time. Alcohol sales are planned to be a part of the convenience store.

Should you have any further questions please contact me via email at ryan.alvarez@kimley-horn.com or via phone at 714-786-6322. An alternative contact will be a team member at matt.jaureguy@kimley-horn.com or 657-331-4291.

Sincerely,

Ryan Alvarez, P.E.

WALMART FUEL STATION - STORE #1915
58501 TWENTY NINE PALMS HWY., YUCCA VALLEY, CA 92284
DESIGN CIVIL SITE PLAN

SITE ANALYSIS TABLE

FUEL STATION ADDRESS	58501 TWENTY NINE PALMS HWY, YUCCA VALLEY, CA 92284	
EXISTING/PROPOSED ZONING	CG - GENERAL COMMERCIAL	
EXISTING/PROPOSED GENERAL PLAN DESIGNATION	(C) COMMERCIAL	
SPECIFIC PLAN IDENTIFICATION	YUCCA VALLEY RETAIL SP	
EXISTING LAND USE	GENERAL RETAIL MERCHANDISER	
PROPOSED LAND USE	GENERAL RETAIL MERCHANDISER/GAS STATION WITH CONVENIENCE STORE	
GROSS/PARCEL AREA	23.85 ACRES |1,038,691 S.F.	
NET AREA	22.91 ACRES | 997,959 S.F.	
EXISTING WALMART BUILDING AREA	184,146 S.F.	
PROPOSED FUEL AREA OF DISTURBANCE	1.32 ACRES	
PROPOSED FUEL BUILDING AREA	1,556 S.F.	
PROPOSED TOTAL BUILDING AREA	185,702 S.F.	
	PARKING COUNT	PARKING RATIO
EXISTING TOTAL PARKING	906 SPACES	4.91/1,000 S.F.
EXISTING STANDARD STALLS	874 SPACES	---
EXISTING ADA STALLS	32 SPACES	---
EXSITING CART CORRAL STALLS*	44 SPACES	---
PROPOSED TOTAL PARKING	785 SPACES	4.26/1,000 S.F.
PROPOSED STANDARD STALLS	752 SPACES	---
PROPOSED ADA STALLS	33 SPACES	---
PROPOSED CART CORRAL SPACES*	44 SPACES	---
CITY REQ. PARKING	737 SPACES	1.00/250 S.F.
WALMART REQ. PARKING	737 SPACES	4.00/1,000 S.F.

NOTE:
1. CART CORRAL OCCUPYING STALLS ARE REMOVED FROM ALL COUNTS AND DO NOT CONTRIBUTE TO THE PARKING RATIOS IN THE TABLE.

LEGEND

PROPERTY LINE

APN: 0601201540000

LEGAL DESCRIPTION:
THAT PORTION OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER OF SECTION 32, TOWNSHIP 1 NORTH, RANGE 6 EAST, SAN BERNARDINO MERIDIAN, IN THE CITY OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TOT HE OFFICIAL PLAT THEREOF, LYING SOUTHEASTERLY AND SOUTHERLY OF THE SOUTHEASTERLY LINE OF 29 PALMS HIGHWAY CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED OCTOBER 13, 1916 IN BOOK 9031, PAGE 97 OF OFFICIAL RECORDS.

OWNER

WAL-MART STORES INC.
MAIL STOP 0505
702 SW 8TH STREET
BENTONVILLE, AR 72716-5570
479-871-7573

CIVIL ENGINEER

JACOB GLAZE, P.E.
KIMLEY-HORN
1100 TOWN AND COUNTRY ROAD
ORANGE, CA 92868
714-939-1030

APPLICANT

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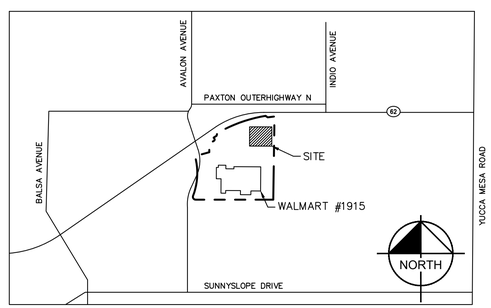
1100 TOWN AND COUNTRY ROAD
ORANGE, CA 92868
714-939-1030
RYAN.ALVAREZ@KIMLEY-HORN.COM

NORTH

GRAPHIC SCALE IN FEET
0 50 100 200

SCALE: 1" = 100'
WHEN PRINTED AT FULL
SIZE 24"X36"



VICINITY MAP

GRAPHIC SCALE IN FEET
0 500 1000 2000

SCALE: 1" = 1000'
WHEN PRINTED AT FULL
SIZE 24"X36"

Kimley»Horn

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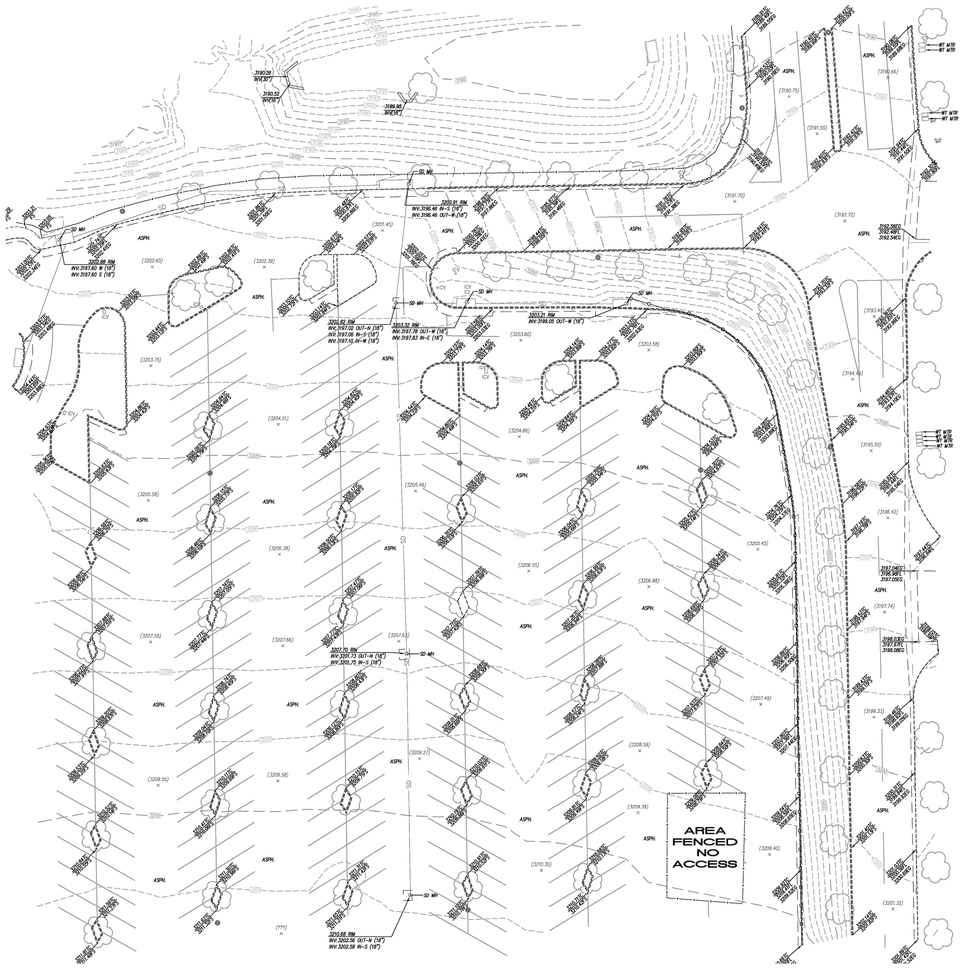
1100 W TOWN AND COUNTRY RD, SUITE 700, ORANGE, CA 92868
PHONE: 714-939-1030 FAX: 714-938-9488
REVISED:
6.24.2025

TOPOGRAPHIC SURVEY

CITY OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA



BASIS OF BEARINGS

THE COORDINATES SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) ZONE V, RELATIVE TO THE NORTH AMERICAN DATUM OF 1983 (2017.50 EPOCH GPS ADJUSTMENT), BASED ON STATIC GPS TIES TO TWO CONTINUOUS GPS STATIONS (CGPS) REFERRED TO AS "CIMS" AND "P599", BEING NORTH 57°02'45" EAST BASED ON POSITIONS PUBLISHED IN THE CALIFORNIA SPATIAL REFERENCE CENTER.

ALL DISTANCES SHOWN ARE GROUND, UNLESS OTHERWISE NOTED. TO OBTAIN GRID, MULTIPLY GROUND DISTANCE BY A COMBINED FACTOR OF 0.99983121233.

BENCHMARK

NATIONAL GEODETIC SURVEY BENCHMARK POINT ID "EV3507"
DESIGNATION: 62 1 4
ELEVATION: 3172.51 FEET [DATUM: NAVD 88]
DESCRIPTION: BENCHMARK DISC STAMPED "CA–071 62.1.4 1972"

LOCATION: 4.2 MILES EAST ALONG STATE HIGHWAY 62 FROM THE POST OFFICE AT YUCCA VALLEY, AT THE INTERSECTION OF HIGHWAY 62 AND INDIO AVENUE, 106.5 FT. NORTH OF THE CENTER LINE OF THE WESTBOUND LANES OF HIGHWAY 62, 61 FT. WEST OF THE CENTER LINE OF INDIO AVENUE, 35.5 FT. SOUTH OF THE SOUTHEAST CORNER OF DINOS ITALIAN INN, IN TOP OF NORTH CURB OF TWENTYNINE PALMS OUTER HIGHWAY.

SITE ADDRESS

WALMART SUPERCENTER – DEPARTMENT STORE
58501 29 PALMS HIGHWAY, YUCCA VALLEY, CA 92284

DATE OF SURVEY

THE TOPOGRAPHIC SURVEY OF THE AREA SHOWN ON HIS PLAT WAS SURVEY ON MAY 14, 2024.

SURVEYOR'S NOTES

1. *THE PURPOSE OF THIS SURVEY IS TO LOCATE AND PREPARE A TOPOGRAPHIC SURVEY OF THE AREA SHOWN AS SPECIFIED BY THE CLIENT.*
2. *LOCATION OF UTILITIES EXISTING ON OR SERVING THE SURVEYED PROPERTY AS DETERMINED BY OBSERVED EVIDENCE ONLY AND DOES NOT REPRESENT A COMPLETE REPRESENTATION OF UTILITIES.*

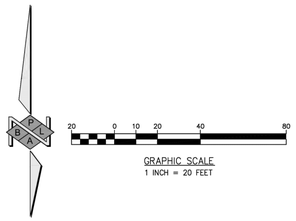
SURVEYOR'S STATEMENT

I HEREBY STATE THAT I AM A LICENSED LAND SURVEYOR OF THE STATE OF CALIFORNIA, THAT THIS MAP CONSISTING OF 1 SHEET REPRESENTS A TRUE AND COMPLETE SURVEY MADE BY ME OR UNDER MY DIRECTION IN MAY, 2024.

May 17 2024
DATE:

PETER E. WEILBACHER, PLS 8403
EXPIRES 06–30–24

LICENSED LAND SURVEYOR
PETER EDWARD WEILBACHER
Exp. 06/30/24
NO. 8403
STATE OF CALIFORNIA

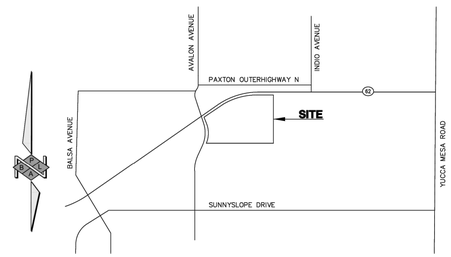


20 0 10 20 40 80

GRAPHIC SCALE
1 INCH = 20 FEET

LEGEND

CONCRETE	S	– SOUTH		WT FH
CURB	N	– NORTH	OR	ICV HH
LANE STRIPING	W	– WEST		WT BFP
CHAIN LINK FENCE	E	– EAST		UTILITY MH
IRON FENCE	S'LY	– SOUTHERLY		SIGN
GRADE BREAK LINE	N'LY	– NORTHERLY		TREE
CONCRETE SIDEWALK	W'LY	– WESTERLY		YARD LIGHT
1 FOOT CONTOUR INTERVAL	E'LY	– EASTERLY		
5 FOOT CONTOUR INTERVAL	*ABOVE GROUND FEATURES*			
UNDERGROUND STORM DRAIN	CONC	– CONCRETE		
	ASPH	– ASPHALT		
	BFP	– BACKFLOW PREVENTOR		
	ICV	– IRRIGATION CONTROL VALVE		
	MH	– MANHOLE		
	MTR	– METER		
	UTILITIES			
	SD	– STORM DRAIN		
	WT	– WATER		



VICINITY MAP
NOT TO SCALE

PREPARED FOR:	PREPARED BY:	DATE	BY	REVISION	APP'D	JOB NO.
Kimley»Horn © 2024 KIMLEY-HORN AND ASSOCIATES, INC. 1100 W TOWN AND COUNTRY ROAD, SUITE 700, ORANGE, CA 92868 PHONE: 714-939-1030 WWW.KIMLEY-HORN.COM	**PBLA SURVEYING, INC.** Planning • Engineering • Surveying 981 CORPORATE CENTER DR., STE. 168 POMONA, CALIF. 91768 (888) 714-9642 • (714)389-9191 FAX	05/16/2024	DH	FIRST RELEASE	PW	5001-972
						Sht. 1 of 1

NOTE

THIS SURVEY INFORMATION WAS PROVIDED BY OTHERS AND IS INCLUDED FOR REFERENCE ONLY. THE DESIGN TEAM DID NOT PREPARE OR VERIFY THIS INFORMATION AND IS RELYING ON IT TO BE ACCURATE.

WALMART FUEL STATION - STORE #1915
58501 TWENTY NINE PALMS HWY, YUCCA VALLEY, CA 92284
SURVEY REFERENCE SHEET

Kimley»Horn
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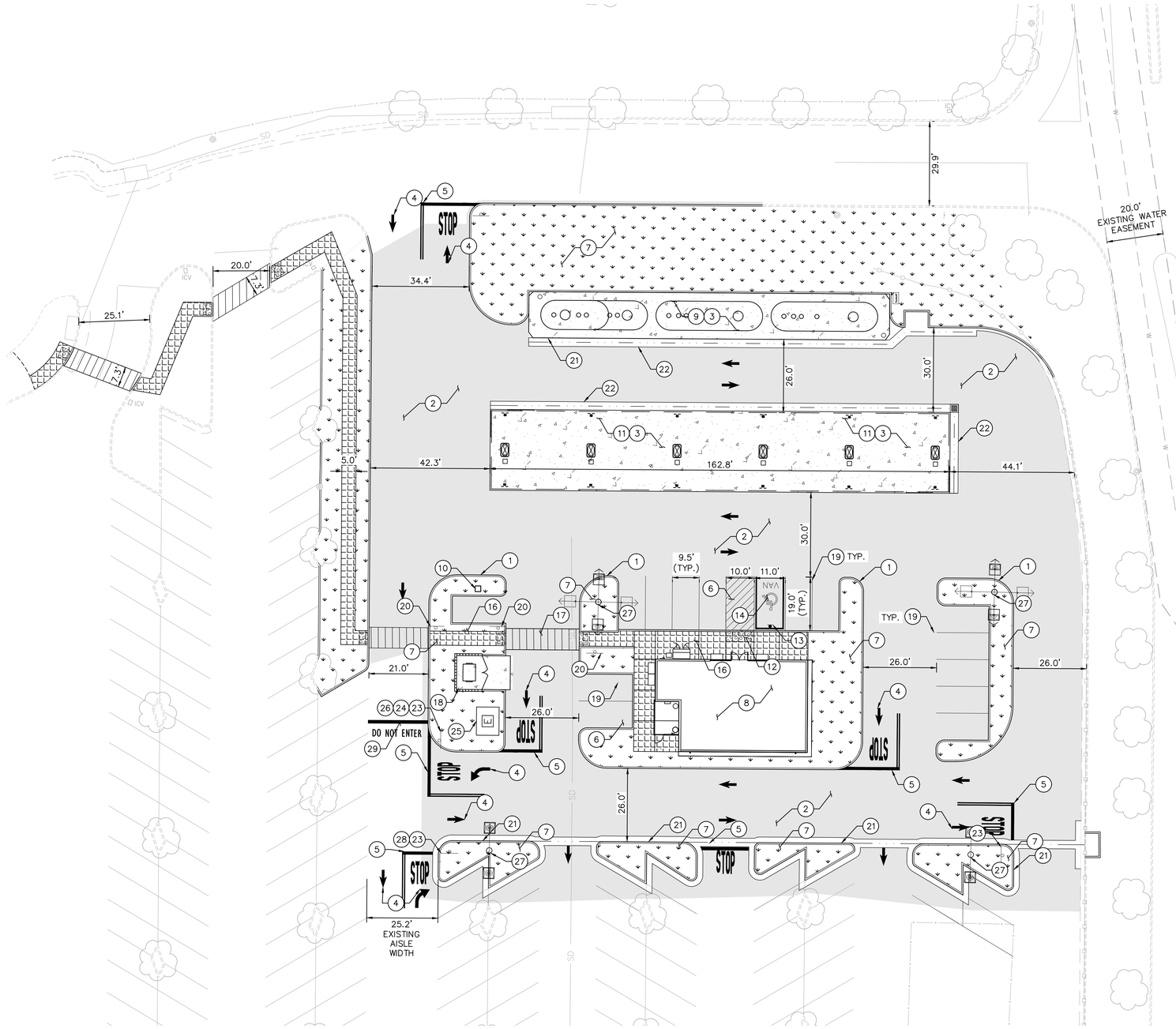
1100 W TOWN AND COUNTRY RD, SUITE 700, ORANGE, CA 92868
PHONE: 714–939–1030 FAX: 714–938–9488 REVISED:
6.24.2025



WALMART FUEL STATION - STORE #1915
58501 TWENTY NINE PALMS HWY., YUCCA VALLEY, CA 92284
DESIGN CIVIL SITE PLAN

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40
SCALE: 1" = 20'
WHEN PRINTED AT FULL SIZE 24"X36"

SITE ANALYSIS TABLE

FUEL STATION ADDRESS	58501 TWENTY NINE PALMS HWY, YUCCA VALLEY, CA 92284	
EXISTING/PROPOSED ZONING	CG - GENERAL COMMERCIAL	
EXISTING/PROPOSED GENERAL PLAN DESIGNATION	(C) COMMERCIAL	
SPECIFIC PLAN IDENTIFICATION	YUCCA VALLEY RETAIL SP	
EXISTING LAND USE	GENERAL RETAIL MERCHANDISER	
PROPOSED LAND USE	GENERAL RETAIL MERCHANDISER/GAS STATION WITH CONVENIENCE STORE	
GROSS/PARCEL AREA	23.85 ACRES |1,038,906 S.F.	
NET AREA	22.91 ACRES | 997,959 S.F.	
EXISTING WALMART BUILDING AREA	184,146 S.F.	
PROPOSED FUEL AREA OF DISTURBANCE	1.32 ACRES	
PROPOSED FUEL BUILDING AREA	1,556 S.F.	
PROPOSED TOTAL BUILDING AREA	185,702 S.F.	
	PARKING COUNT	PARKING RATIO
EXISTING TOTAL PARKING	906 SPACES	4.91/1,000 S.F.
EXISTING STANDARD STALLS	874 SPACES	---
EXISTING ADA STALLS	32 SPACES	---
EXSITING CART CORRAL STALLS*	44 SPACES	---
PROPOSED TOTAL PARKING	785 SPACES	4.26/1,000 S.F.
PROPOSED STANDARD STALLS	752 SPACES	---
PROPOSED ADA STALLS	33 SPACES	---
PROPOSED CART CORRAL SPACES*	44 SPACES	---
CITY REQ. PARKING	737 SPACES	1.00/250 S.F.
WALMART REQ. PARKING	737 SPACES	4.00/1,000 S.F.

NOTE:
1. CART CORRAL OCCUPYING STALLS ARE REMOVED FROM ALL COUNTS AND DO NOT CONTRIBUTE TO THE PARKING RATIOS IN THE TABLE.

APN: 0601201540000

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CIVIL ENGINEER

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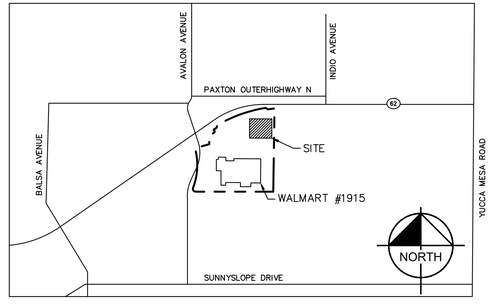
LEGEND

- PROPERTY LINE
- HEAVY DUTY ASPHALT PAVING
- LANDSCAPING
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- TRUNCATED DOMES

CONSTRUCTION NOTES

1. PROPOSED CONCRETE CURB.
2. PROPOSED HEAVY DUTY ASPHALT PAVEMENT.
3. PROPOSED CONCRETE PAVEMENT.
4. STRIPE DIRECTIONAL ARROW PAVEMENT MARKING.
5. STRIPE STOP BAR PAVEMENT MARKING.
6. STRIPE WHITE 4" STRIPE, 60 DEGREES, SPACED AT 36" O.C
7. PROPOSED LANDSCAPING.
8. PROPOSED 1,440 SF CONVENIENCE STORE.
9. PROPOSED UNDERGROUND GAS TANKS. ONE 20,000 GAL UNL, ONE 20,000 GAL SPLIT (12,000 UNL/8,000 PRM), AND ONE 20,000 GAL DSL.
10. PROPOSED AIR STATION.
11. PROPOSED CANOPY.
12. PROPOSED TRUNCATED DOMES.
13. PROPOSED VAN ACCESSIBLE PARKING SIGN ON POST.
14. PROPOSED VAN ACCESSIBLE PARKING.
15. PROPOSED PEDESTRIAN CROSSING SIGN ON POST AND BOLLARD.
16. PROPOSED CONCRETE SIDEWALK.
17. PROPOSED PATH OF TRAVEL STRIPING.
18. PROPOSED TRASH ENCLOSURE.
19. PROPOSED REGULAR PARKING.
20. PROPOSED PEDESTRIAN CROSSING SIGN ON POST.
21. PROPOSED CURB AND GUTTER.
22. PROPOSED VALLEY GUTTER.
23. PROPOSED STOP SIGN ON POST.
24. PROPOSED SUPPLEMENTARY "CROSS TRAFFIC DOES NOT STOP" PLACARD.
25. PROPOSED TRANSFORMER PAD SHOWN FOR REFERENCE ONLY
26. PROPOSED SUPPLEMENTARY "LEFT TURN ONLY" PLACARD.
27. PROPOSED LIGHT POLE BASE. SEE LIGHTING INFORMATION ON PHOTOMETRIC PLANS.
28. PROPOSED SUPPLEMENTARY "NO THROUGH TRAFFIC" PLACARD.
29. STRIPE "DO NOT ENTER" BAR PAVEMENT MARKING.



VICINITY MAP

GRAPHIC SCALE IN FEET
0 ### #### ####
SCALE: 1" = 1000'
WHEN PRINTED AT FULL SIZE 24"X36"

Kimley»Horn

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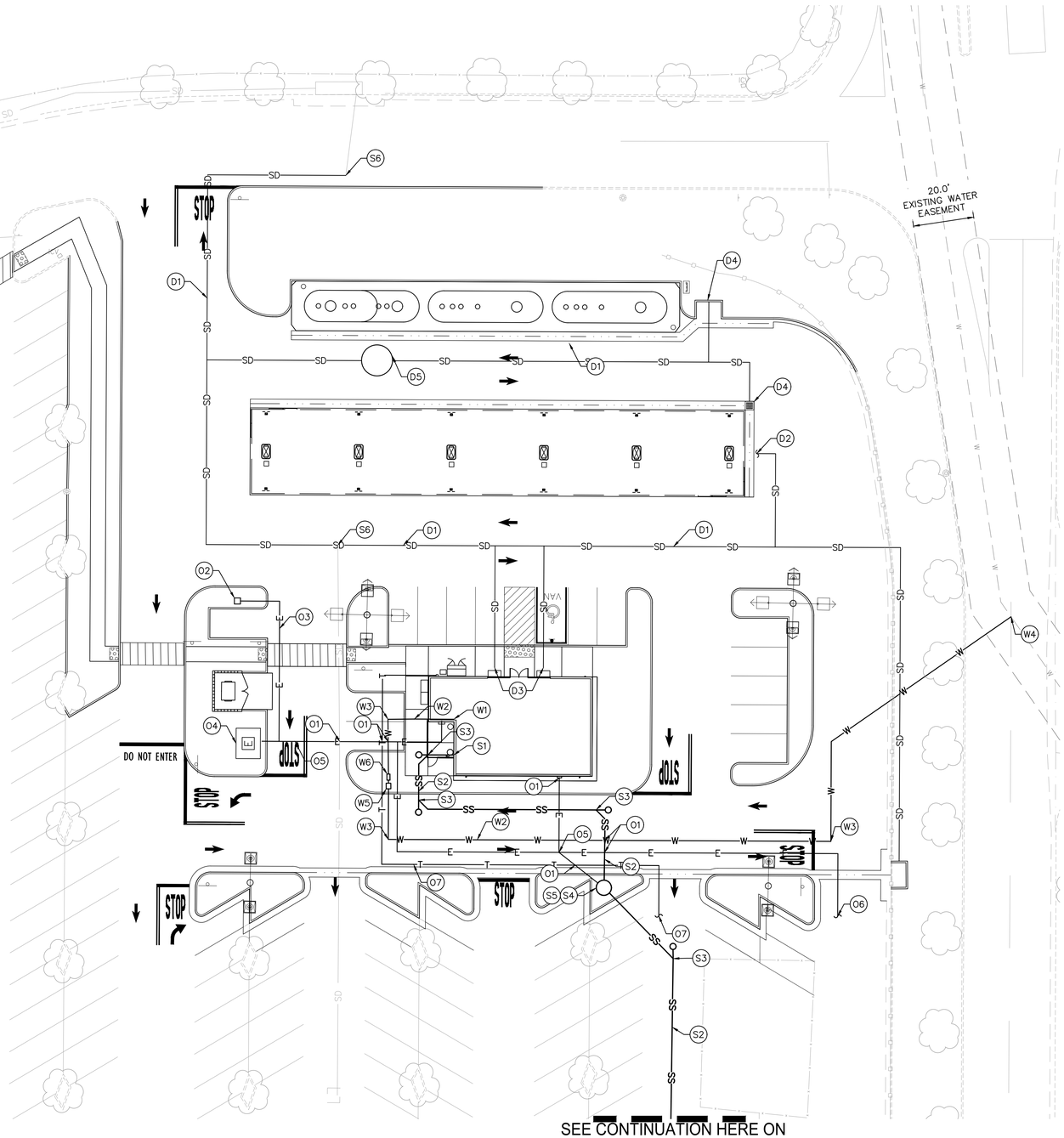
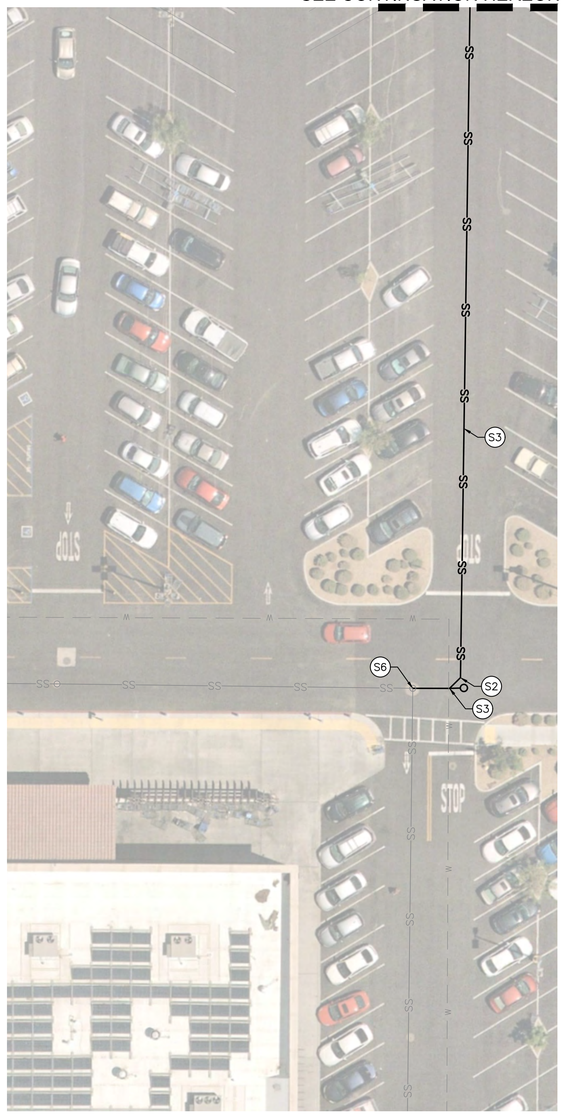
1100 W TOWN AND COUNTRY RD, SUITE 700, ORANGE, CA 92868
PHONE: 714-939-1030 FAX: 714-938-9488

REVISED:
6.24.2025





UTILITY LEGEND

- PROPERTY LINE
- SD — EXISTING STORM DRAIN LINE
- W — EXISTING WATER LINE
- SS — EXISTING SANITARY LINE
- E — EXISTING ELECTRIC LINE
- W — PROPOSED WATER LINE
- SS — PROPOSED SANITARY LINE
- E — PROPOSED ELECTRIC LINE
- SD — PROPOSED STORM DRAIN LINE
- T — PROPOSED TELECOMMUNICATION LINE (FIBER OPTIC CABLE)

SEWER

- (S1) BUILDING POINT OF CONNECTION (5-FT FROM BUILDING FACE). REFER TO MEP PLANS FOR CONTINUATION.
- (S2) INSTALL 4" SDR-PVC SEWER LATERAL.
- (S3) INSTALL 4" SDR-PVC 45° BEND WITH SANITARY SEWER CLEANOUT.
- (S4) PROPOSED SANITARY SEWER MANHOLE.
- (S5) PROPOSED LIFT STATION. CONTRACTOR TO REQUEST DESIGN FLOW FROM MEP FOR DESIGN OF LIFT STATION AT TIME OF CONSTRUCTION.
- (S6) PROPOSED CONNECTION TO EXISTING PRIVATE SEWER LINE.

STORM DRAIN

- (D1) PROPOSED 8" STORM DRAIN PIPE.
- (D2) PROPOSED CONNECTION FOR CANOPY ROOF DRAINAGE.
- (D3) PROPOSED ROOF DRAIN CONNECTION.
- (D4) PROPOSED GRATE INLET CATCH BASIN.
- (D5) PROPOSED OIL WATER SEPARATOR
- (D6) POINT OF CONNECTION FOR STORM DRAIN.

DOMESTIC WATER

- (W1) 1.5" BUILDING POINT OF CONNECTION (5-FT FROM BUILDING FACE). REFER TO PLUMBING PLANS FOR CONTINUATION.
- (W2) INSTALL 1.5" SCHEDULE 40 DOMESTIC WATER PIPE.
- (W3) INSTALL 1.5" SCHEDULE 40 90° BEND.
- (W4) POINT OF CONNECTION FOR WATER LINE.
- (W5) PROPOSED 2.0" WATER METER. COORDINATE INSTALL WITH LOCAL PURVEYOR.
- (W6) PROPOSED 2.0" BACKFLOW PREVENTER. GENERAL CONTRACTOR SHALL RECEIVE BACKFLOW APPROVAL FROM WATER PURVEYOR PRIOR TO ORDERING BACKFLOW.

OTHER UTILITY NOTES

- (O1) PROPOSED UTILITY CROSSING.
- (O2) PROPOSED AIR/WATER PEDESTAL.
- (O3) 1" CONDUIT TO AIR/WATER PEDESTAL.
- (O4) PROPOSED TRANSFORMER.
- (O5) PROPOSED CONDUIT FOR 400 AMP ELECTRIC SERVICE. REFER TO UTILITY COMPANY PLAN/REQUIREMENTS FOR MORE INFORMATION.
- (O6) PROPOSED ELECTRIC CONDUIT TIE INTO EXISTING SERVICE.
- (O7) PROPOSED FIBER OPTIC CONDUIT 3" DIRECTIONAL BORE OR APPROVED EQUAL WITH PULL BOXES EVERY 300' TO EXISTING WALMART SUPERCENTER FROM CONVENIENCE STORE.
- (O8) PROPOSED EMERGENCY SHUT OFF FOR SEWER LIFT STATION.

WALMART FUEL STATION - STORE #1915
58501 TWENTY NINE PALMS HWY, YUCCA VALLEY, CA 92284
DESIGN CIVIL UTILITY PLAN

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SCALE: 1" = 20'
WHEN PRINTED AT FULL SIZE 24"X36"

Kimley»Horn

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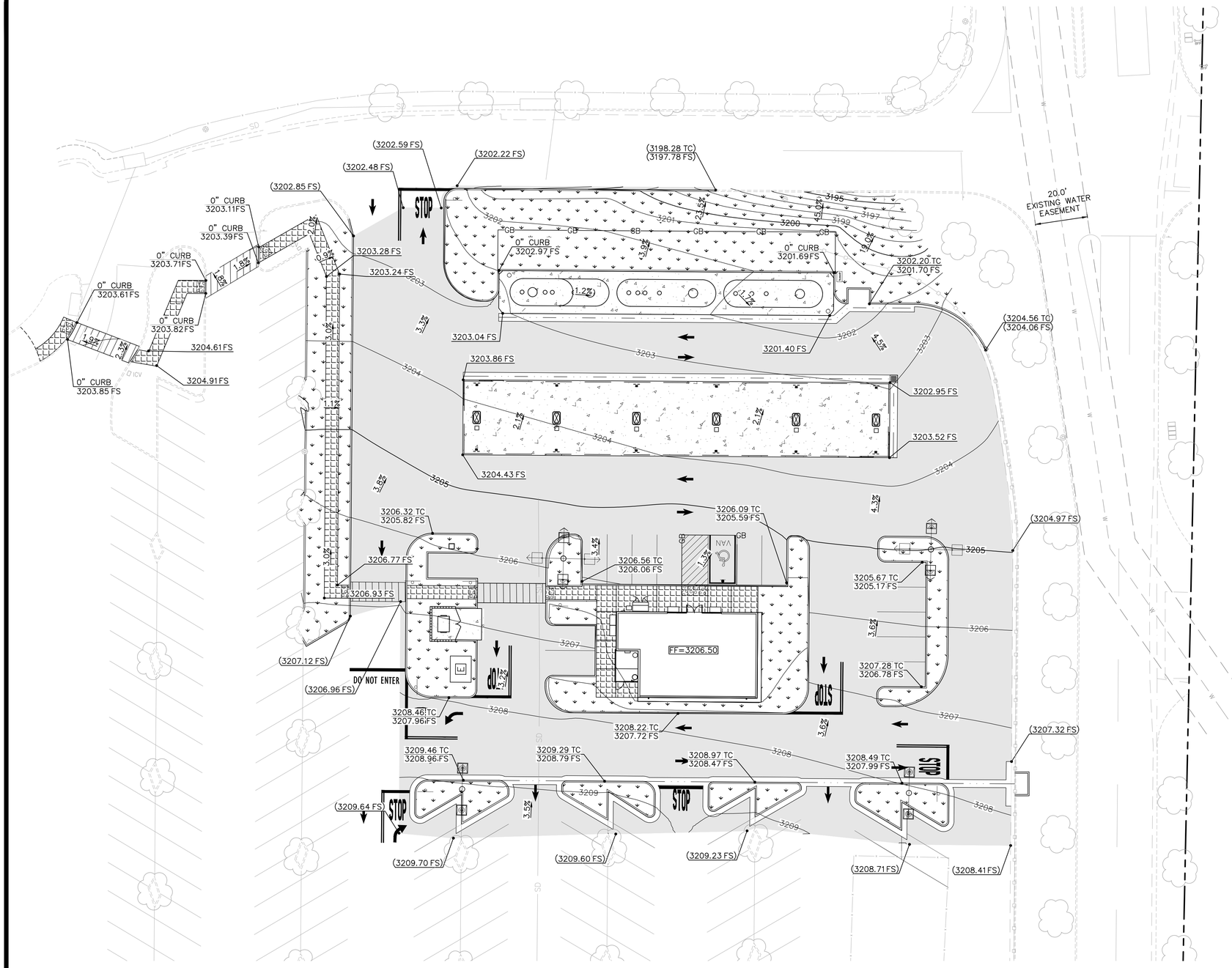

WALMART FUEL STATION - STORE #1915
58501 TWENTY NINE PALMS HWY, YUCCA VALLEY, CA 92284
DESIGN CIVIL GRADING PLAN

LEGEND

	PROPERTY LINE
	HEAVY DUTY ASPHALT PAVING
	LANDSCAPING
	CONCRETE SIDEWALK
	CONCRETE PAVEMENT
	TRUNCATED DOMES
	PROPERTY LINE
GB	PROPOSED GRADE BREAK
R	PROPOSED RIDGE LINE
SD	PROPOSED STORM DRAIN LINE
SD	EXISTING STORM DRAIN LINE
FF	FINISH FLOOR ELEVATION
FL	FLOWLINE
LIP	LIP OF GUTTER
TC	TOP OF CURB
FS	FINISH SURFCE
(3205.50 TC) (3205.00 FS)	EXISTING GRADE
3205.50 TC 3205.00 FS	PROPOSED GRADE
X.X%	PROPOSED SLOPE

APN: 0601201540000

LEGAL DESCRIPTION:
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702 SW 8TH STREET
BENTONVILLE, AR 72716-5570
479-871-7573

CIVIL ENGINEER

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RYAN.ALVAREZ@KIMLEY-HORN.COM

TOPOGRAPHY SOURCE:

SEE SURVEY REFERENCE SHEET.

DATE OF TOPOGRPHIC SURVEY IS MAY 14, 2024.

EARTHWORK:

CUT: 1177 CU. YD.

FILL: 28 CU. YD.

NORTH

GRAPHIC SCALE IN FEET
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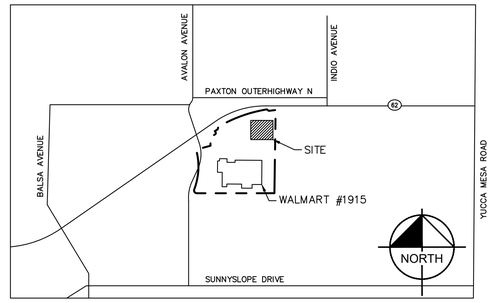
SCALE: 1" = 20'
WHEN PRINTED AT FULL
SIZE 24"X36"



VICINITY MAP

GRAPHIC SCALE IN FEET
0 500 1000 2000

SCALE: 1" = 1000'
WHEN PRINTED AT FULL
SIZE 24"X36"

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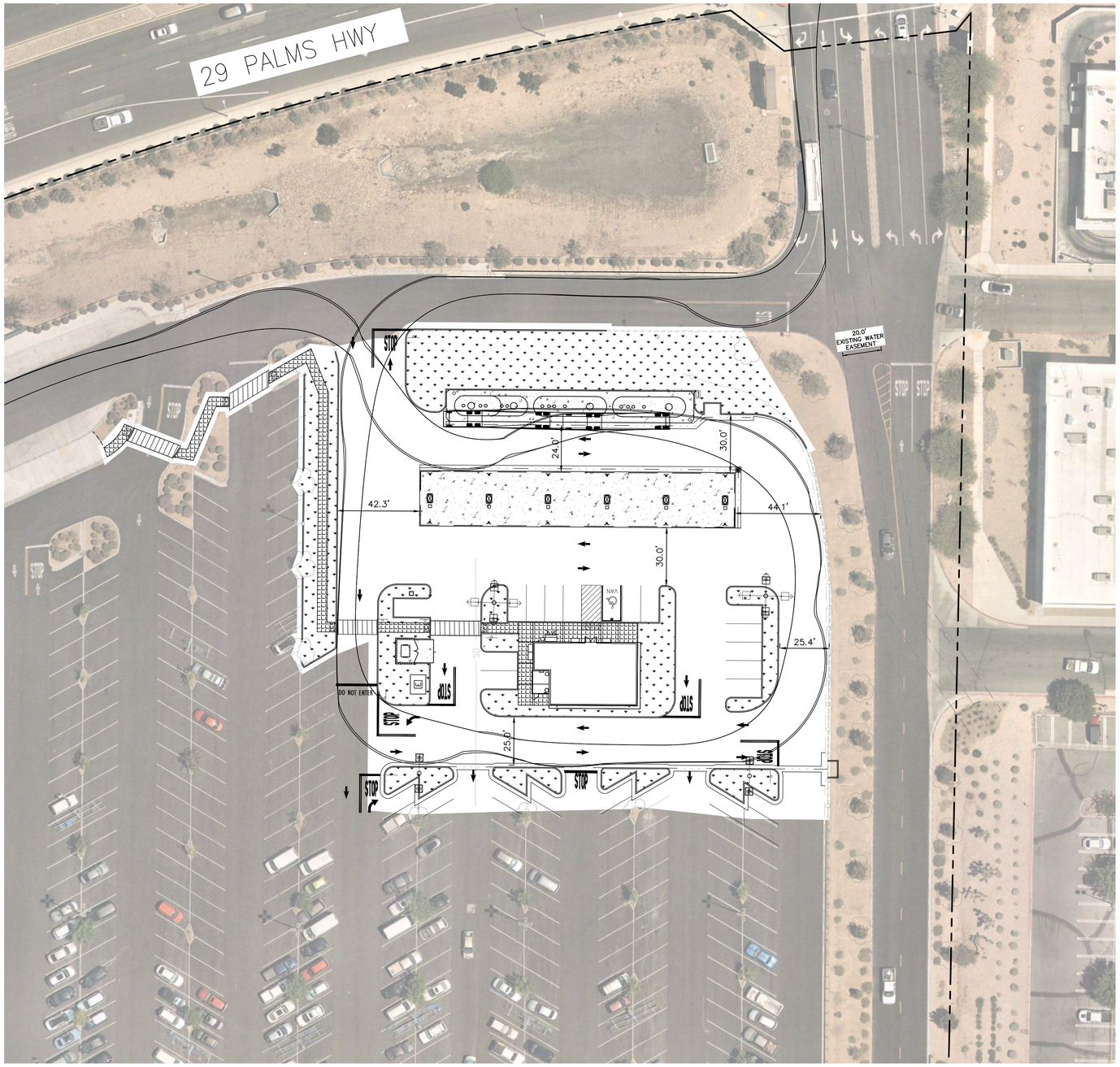
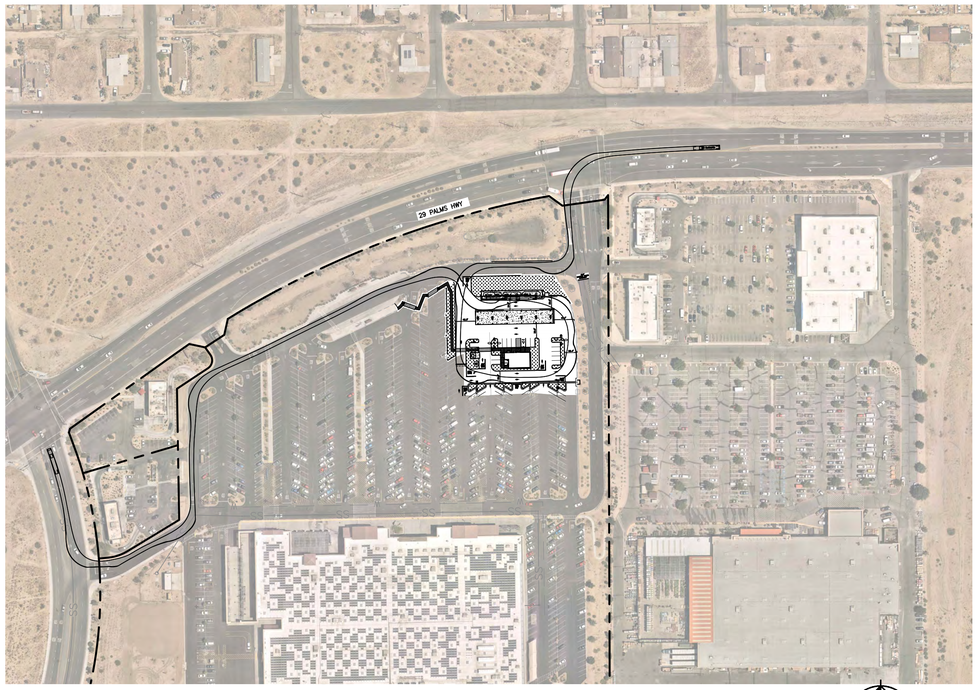


LEGEND

- PROPERTY LINE
- HEAVY DUTY ASPHALT PAVING
- LANDSCAPING
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT



NORTH

GRAPHIC SCALE IN FEET
0 75 150 300

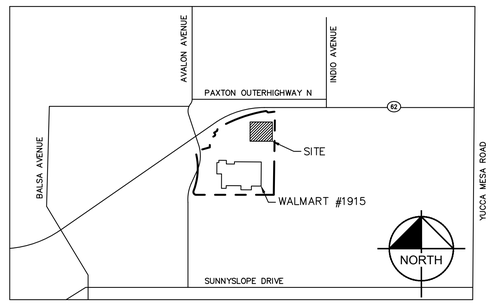
SCALE: 1" = 150'
WHEN PRINTED AT FULL
SIZE 24"X36"

WALMART FUEL STATION - STORE #1915
58501 TWENTY NINE PALMS HWY., YUCCA VALLEY, CA 92284
DESIGN CIVIL TRUCK TURN

NORTH

GRAPHIC SCALE IN FEET
0 15 30 60

SCALE: 1" = 30'
WHEN PRINTED AT FULL
SIZE 24"X36"



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Kimley»Horn

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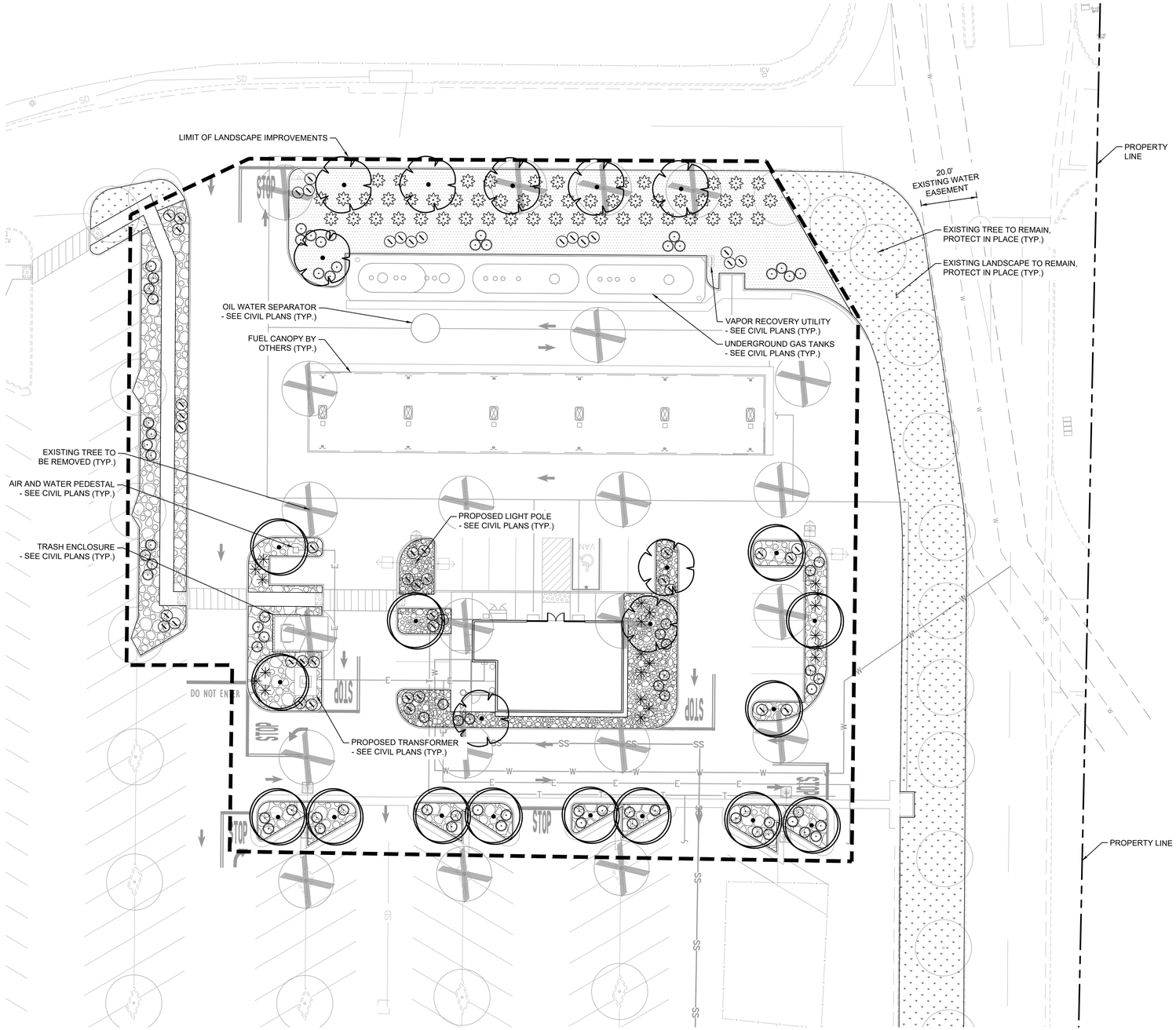
1100 W TOWN AND COUNTRY RD, SUITE 700, ORANGE, CA 92868
PHONE: 714-939-1030 FAX: 714-938-9488 REVISED: 6.24.2025



WALMART FUEL STATION - STORE #1915
58501 TWENTY NINE PALMS HWY., YUCCA VALLEY, CA 92284
PRELIMINARY LANDSCAPE PLAN

NORTH

GRAPHIC SCALE IN FEET
0 10 20 40

SCALE: 1" = 20'
WHEN PRINTED AT FULL
SIZE 24"X36"

LANDSCAPE NOTES:

THE SELECTION OF PLANT MATERIAL IS BASED ON CLIMATIC, AESTHETIC, AND MAINTENANCE CONSIDERATIONS. ALL PLANTING AREAS SHALL BE PREPARED WITH APPROPRIATE SOIL AMENDMENTS, FERTILIZERS AND APPROPRIATE SUPPLEMENTS BASED UPON A SOILS REPORT FROM AN AGRICULTURAL SUITABILITY SOIL SAMPLE TAKEN FROM THE SITE. DECOMPOSED GRANITE SHALL FILL IN BETWEEN SHRUBS TO SHIELD THE SOIL FROM THE SUN, EVAPOTRANSPIRATION, AND RUN-OFF. ALL SHRUB BEDS SHALL CONTAIN CRUSHED ROCK A 3" DEPTH TO HELP CONSERVE WATER, LOWER SOIL TEMPERATURE, AND REDUCE WEED GROWTH. THE SHRUBS SHALL BE ALLOWED TO GROW IN THEIR NATURAL FORMS. ALL LANDSCAPE IMPROVEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH BY THE TOWN OF YUCCA VALLEY MUNICIPAL CODE.

IRRIGATION NOTES:

AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED TO PROVIDE 100% COVERAGE FOR ALL PLANTING AREAS SHOWN ON THE PLAN. THE WATER SUPPLY FOR THIS SITE IS A POTABLE WATER CONNECTION AND A DEDICATED IRRIGATION METER WILL BE PROVIDED. LOW VOLUME EQUIPMENT SHALL PROVIDE SUFFICIENT WATER FOR PLANT GROWTH WITH NO WATER LOSS DUE TO WATER CONTROLLERS, AND OTHER NECESSARY IRRIGATION EQUIPMENT. ALL POINT SOURCE SYSTEM SHALL BE ADEQUATELY FILTERED AND REGULATED PER THE MANUFACTURER'S RECOMMENDED DESIGN PARAMETERS. ALL IRRIGATION IMPROVEMENTS SHALL FOLLOW THE GUIDELINES SET FORTH BY THE TOWN OF YUCCA VALLEY MUNICIPAL CODE.

CONCEPT PLANT LEGEND:

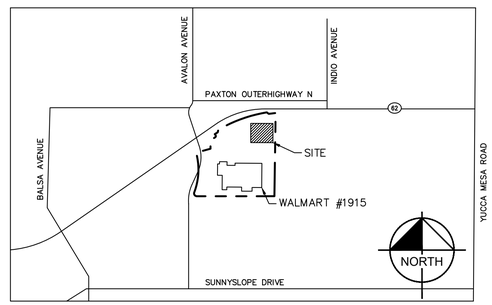
SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	HEIGHT/SPREAD	CAL.	WUCOLS
TREES						
	9	CHILOPSIS LINEARIS / DESERT WILLOW	24" BOX	5`-7` HT. X 3`-4` SPR.	1" CAL.	MODERATE
	22	EXISTING TREE TO BE REMOVED	-	-	-	-
		EXISTING TREE TO REMAIN / PROTECT IN PLACE	-	-	-	-
	14	PISTACIA CHINENSIS / CHINESE PISTACHE	24" BOX	9`-11` HT. X 4`-5` SPR.	1" CAL.	MODERATE

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING	WUCOLS
SHRUBS					
	21	HESPERALOE PARVIFLORA / RED YUCCA	5 GAL.	4` O.C.	LOW
	77	LEUCOPHYLLUM FRUTESCENS `COMPACTA` / COMPACT TEXAS RANGER	5 GAL.	4` O.C.	LOW
	52	ROSMARINUS OFFICINALIS 'PROSTRATE' / PROSTRATE ROSEMARY	5 GAL.	5` O.C.	MODERATE
GROUNDCOVER					
	48	LANTANA X 'NEW GOLD' / NEW GOLD LANTANA	1 GAL.	4` O.C.	MODERATE

SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT.	SPACING
GROUND COVERS				
	6,649 SF	3" DEPTH MIN. OF 1/4"-3/4" CRUSHED ROCK / TO MATCH EXISTING	-	-
	8,513 SF	EXISTING LANDSCAPE TO REMAIN	-	-
INERTS				
	6,124 SF	2" DEPTH DECOMPOSED GRANITE / COLOR AND SIZE TO MATCH EXISTING	-	-

I AGREE THAT THIS LANDSCAPE DOCUMENTATION PACKAGE COMPLIES WITH THE LANDSCAPING REQUIREMENTS AS OUTLINED BY CHAPTER 9.32 OF THE TOWN OF YUCCA VALLEY DEVELOPMENT CODE; AS WELL AS ANY OTHER REQUIREMENTS AS OUTLINED IN SUPPORTING DOCUMENTATION REGARDING WATER EFFICIENT-LANDSCAPING REQUIREMENTS PROVIDED BY THE TOWN OF YUCCA VALLEY.

RANDALL A. KOPFF JR, LLA 6633



VICINITY MAP

GRAPHIC SCALE IN FEET
0 500 1000 2000

SCALE: 1" = 1000'
WHEN PRINTED AT FULL
SIZE 24"X36"

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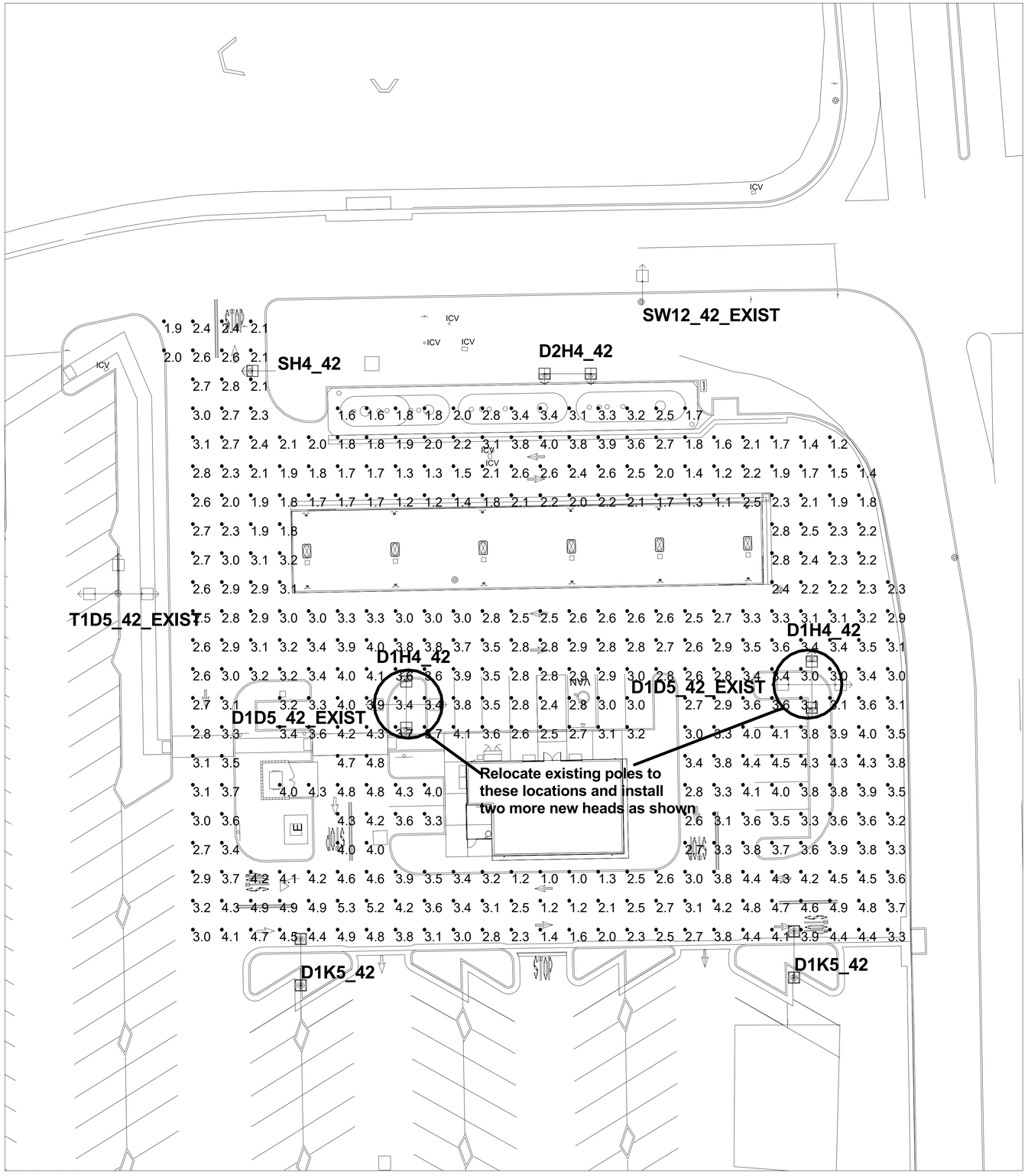
REVISED:
6.5.2025



Scale: 1 inch= 20 Ft.

THIS IS A D SIZE SHEET. THE NOTED SCALE IS NOT VALID IF PRINTED AS ANY OTHER SIZE.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Fuel Zone	Illuminance	Fc	3.03	5.3	1.0	3.03	5.30

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	LLF	Description	Arr. Watts	Arr. Lum. Lumens	BUG Rating
	1	D2H4_42	ROTATED OPTICS	0.837	1-EALS035H4AF750NDD1BLCKFS1 & 1-EALS035H4AF750NDD1BLCKFS2 39ft pole on 3ft base	280	40000	B3-U0-G3
	2	D1K5_42	D180	0.837	2-EALS035K5SM750NDD1BLCKF 39ft pole on 3ft base	478	60000	B5-U0-G3
	2	D1H4_42	D180	0.837	2-EALS035H4AF750NDD1BLCKF 39ft pole on 3ft base	280	40000	B3-U0-G3
	1	SH4_42	SINGLE	0.837	1-EALS035H4AF750NDD1BLCKF 39ft pole on 3ft base	140	20000	B3-U0-G3
	2	D1D5_42_EXIST	BACK-BACK	0.765	2-EAMT5D5N57A4CBLCKF 39ft pole on 3ft base	570	38000	B5-U0-G3
	1	T1D5_42_EXIST	3 @ 90 DEGREES	0.765	3-EAMT5D5N57A4CBLCKF 39ft pole on 3ft base	855	57000	B5-U0-G3
	1	SW12_42_EXIST	SINGLE	0.765	1-EAMM5M3F57A4CBLCKF 39ft pole on 3ft base	213	14800	B2-U0-G2

LED STATISTICS SHOWN ARE AT 50000 HOURS L85 & L93 RATING (~12 YEARS @ 12 HRS/DAY)

L85 = OPERATING HOURS AT WHICH AN AVERAGE OF 15% OF INITIAL LUMENS HAVE BEEN LOST IN A TESTED POPULATION OF LED PLATFORMS. THE POPULATION STILL EMITS 85% OF INITIAL LUMENS. THE LUMINAIRE HAS NOT FAILED. IT IS STILL OPERATING WITH A REDUCED LIGHT OUTPUT.

L93 = OPERATING HOURS AT WHICH AN AVERAGE OF 7% OF INITIAL LUMENS HAVE BEEN LOST IN A TESTED POPULATION OF LED PLATFORMS. THE POPULATION STILL EMITS 93% OF INITIAL LUMENS. THE LUMINAIRE HAS NOT FAILED. IT IS STILL OPERATING WITH A REDUCED LIGHT OUTPUT.

IN COMPARISON, NON-LED LUMINAIRES ARE RATED WITH MEAN LUMENS MEASURED AT 40-50% OF RATED LIFE, DEPENDING ON TECHNOLOGY, AND RATED LIFE OF B50, WHERE B50 = OPERATING HOURS AT WHICH 50% OF A TESTED POPULATION OF LAMPS HAVE FAILED.

PROPERTY LINES BASED OFF PROVIDED LIGHTING RETROFIT SURVEY AND GOOGLE EARTH PRO. CALCULATION AREAS TREATED AS OPEN AND EMPTY. NO TREES ARE CONSIDERED IN THE DESIGN, ACTUAL VALUES MAY VARY FROM CALCULATED VALUES SHOWN.

Current

The magnitude of the differences between detailed analysis methods and field measurements varies. In general, differences of less than 20% can be expected, but in extreme cases, where a calculation method cannot handle the complexity of the lighting system, they may be greater. A more complete discussion of the uncertainties is available.

ANSI / IES LS-6-20
Lighting Science: Calculation of Light and its Effects

Provided for:

CURRENT

Provided BY:
Application Solution Center
apps@currentlighting.com

6085 Parkland Blvd,
Mayfield Heights, OH 44124

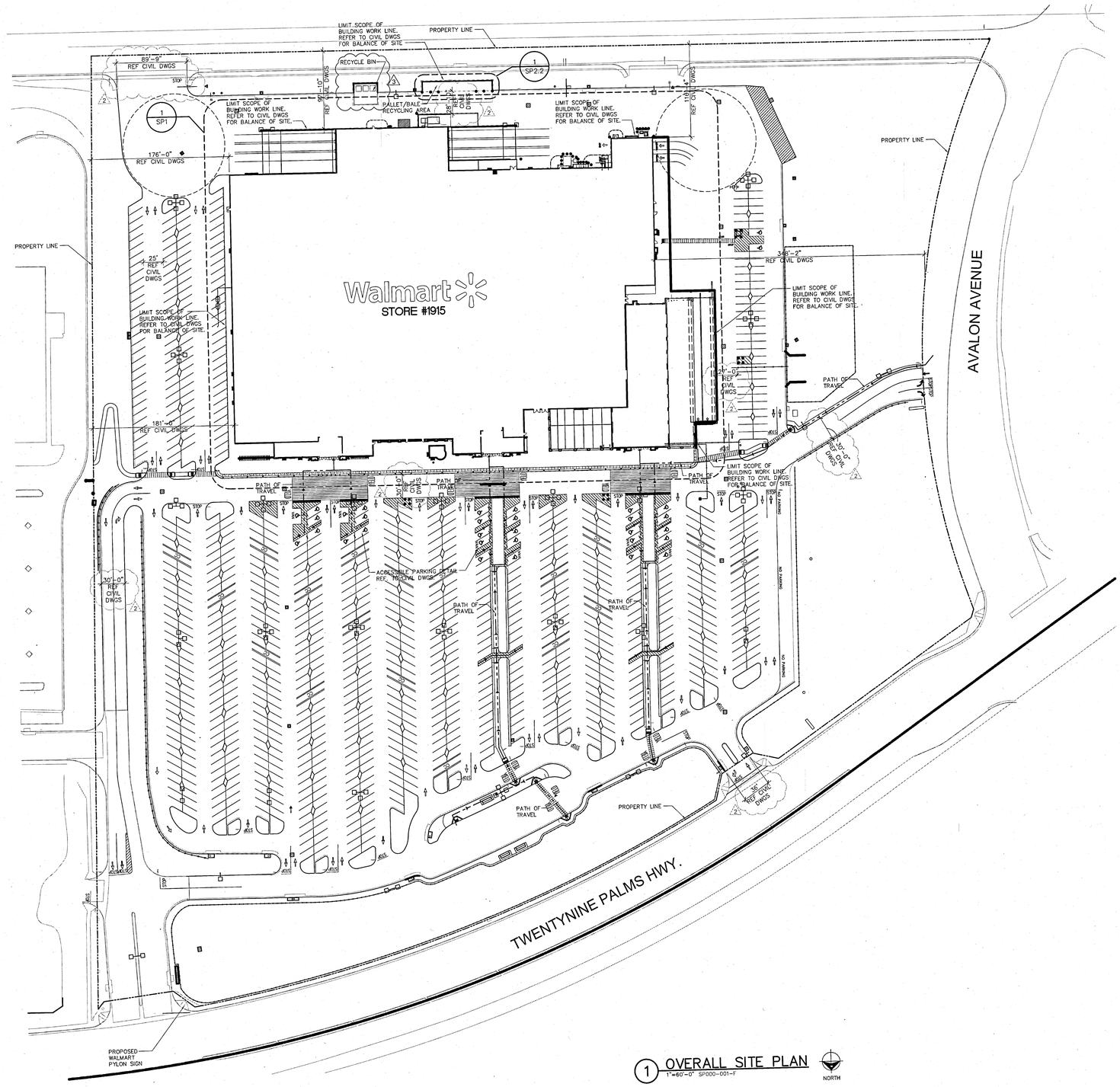
Designer: Joshua Watkins

Date:5/29/2025

Drawing #: A251076-Walmart #1915 Yucca Valley, CA Fuel Station AGI

Walmart #1915 Yucca Valley, CA Fuel Station
A251076A

GE EVOLVE LED AREA LIGHT (EALS) 5000K CCT
MOUNTING HEIGHT - 42 FT POLES.
TARGET: FUEL STATION SPEC
10'X10' CALCULATION GRID SPACING
HORIZONTAL POINTS AT GRADE.
50,000 HOURS SHOWN



1 OVERALL SITE PLAN
1"=60'-0" SP000-001-F

NORTH

OTB SET - 05-15-2012

May 22, 2012 - 10:19am - USER Estella_J
H:\09-Proj\09524_Wal-Mart 1915-04 Yucca Valley, CA\25\0049 - SP0 OVERALL SITE PLAN - 1915.dwg

Perkowitz+Ruth Architects
Architecture / Planning / Store Design
tel 760.929.8778 fax 760.929.8779

STIPULATION FOR REUSE
THIS DRAWING WAS PREPARED FOR WAL-MART STORES, INC. FOR USE IN YUCCA VALLEY, CA CONSTRUCTION ADDEST AND IT IS NOT SUITABLE FOR USE ON ANOTHER SITE OR FOR ANY OTHER PURPOSE AT A LATER TIME OR BY ANOTHER PARTY WITHOUT PRIOR WRITTEN APPROVED PERMISSION FROM WAL-MART STORES, INC. AND PERKOWITZ+RUTH ARCHITECTS, AND THEIR DRAWING FOR ANY SUCH USE SHALL BE AT THE USER'S RISK AUTHORIZED AND MAY BE CONTRARY TO THE LAW.

CONSULTANTS

Walmart
5850 TWENTYNINE PALMS HIGHWAY
YUCCA VALLEY, CALIFORNIA
STORE NO. 1915
JOB NUMBER: 09-524-25 PROTO: 176

ISSUE BLOCK

1	04-08-11	PCC-1
2	01-20-12	PCC#2
3	05-15-12	CLIENT REV#4

CHECKED BY:
DRAWN BY:
FILE NAME: 180-SP010
PROTO CYCLE: 092410
DOCUMENT DATE: 12/22/10

LICENSED ARCHITECT
DONALD GRAINGER
No. C18991
REN. 8-31-13
STATE OF CALIFORNIA

OVERALL SITE PLAN

SHEET: SP0

Store:	1915
Sequence:	1003
Budget Date:	2023
C-Store SF (Total Store GLA):	1454 SF
Climate Zone:	2
Snow Load:	0 PSF
Seismic Design:	Category D
Footings:	Shallow Spread
Frost Depth:	0" - 2"
Exterior Walls:	Wood Stud/ EIFS
Wind Speed (ASCE 7-05)	90
Wind Exposure Category:	Exposure "B"
Raised Parapets:	Proto
Fuel Station Kiosk Size:	1440
Fuel Station Dispensers:	6
Fuel Station Restroom:	2

AOR Contact:
Loren McAllister

Walmart

BOD Package - Yucca Valley, CA - Store #1915
New 1440 Backfill Fuel Station

Design Presentation Only - Not For Construction
The building images shown are a representation of the current design intent only. The building images may not reflect variations in color, tone, hue, tint, shading, ambient light intensity, materials, texture, contrast font style, construction variations required by building codes or inspectors, material availability or final design detailing.

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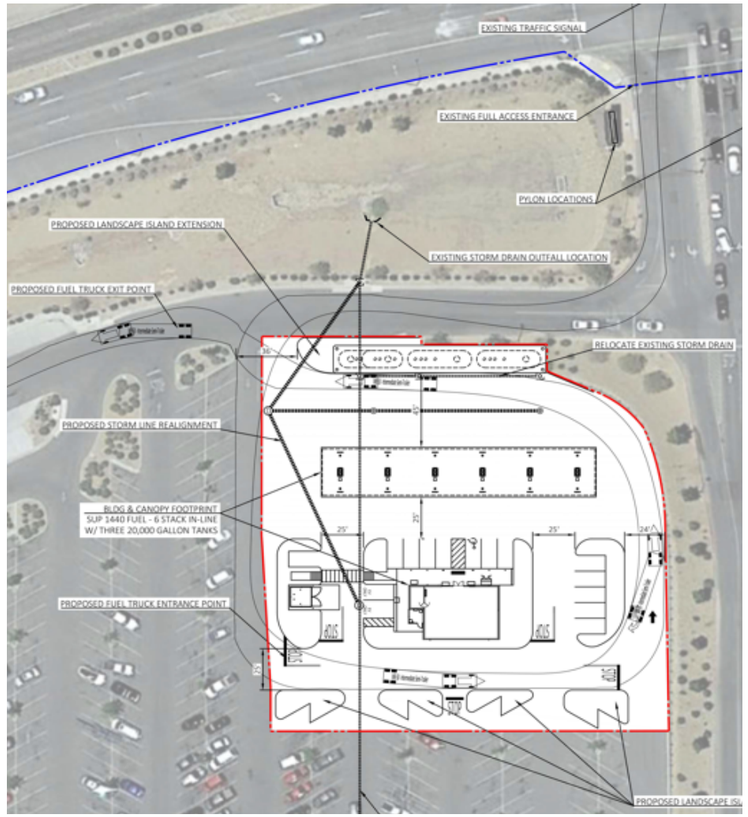
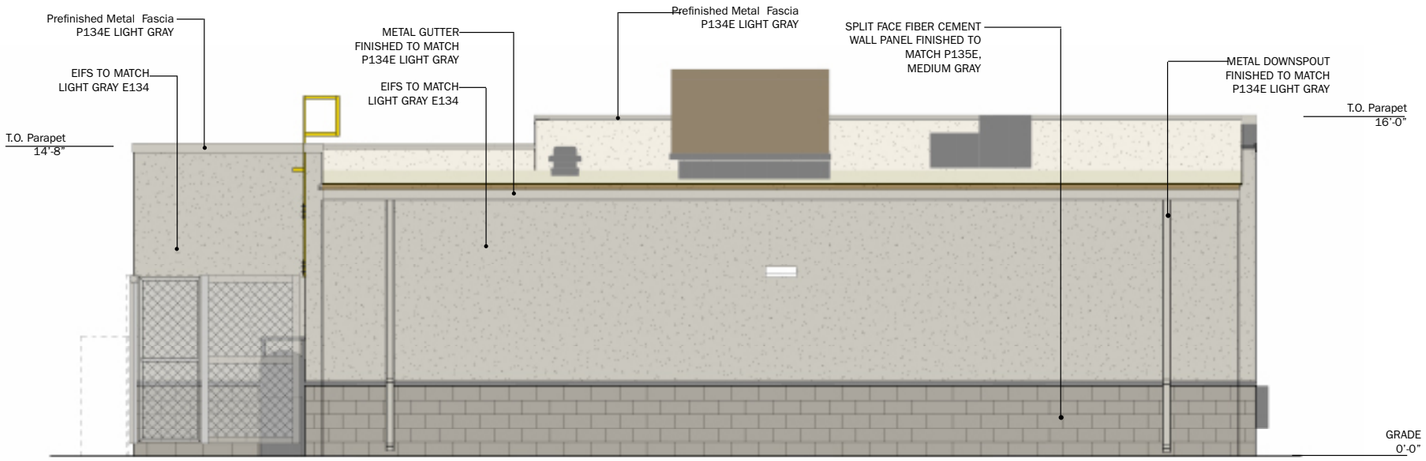
Issued: January 19, 2024

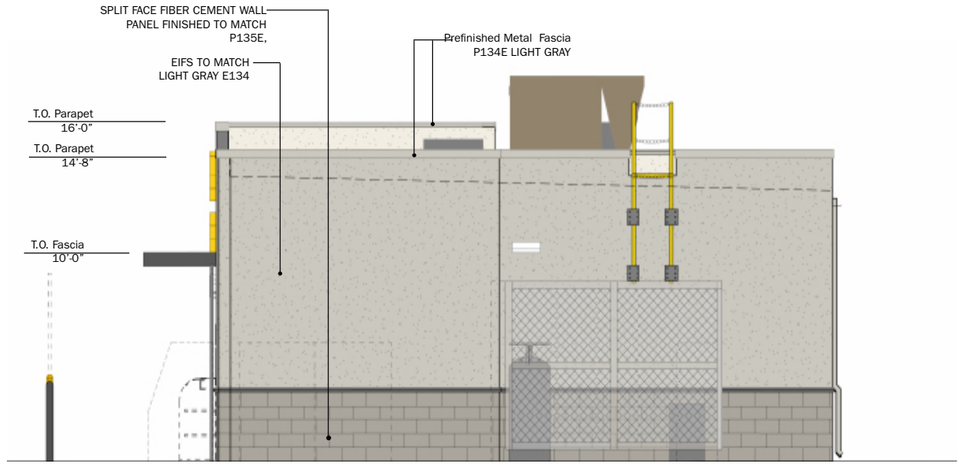
Overall Site Plan



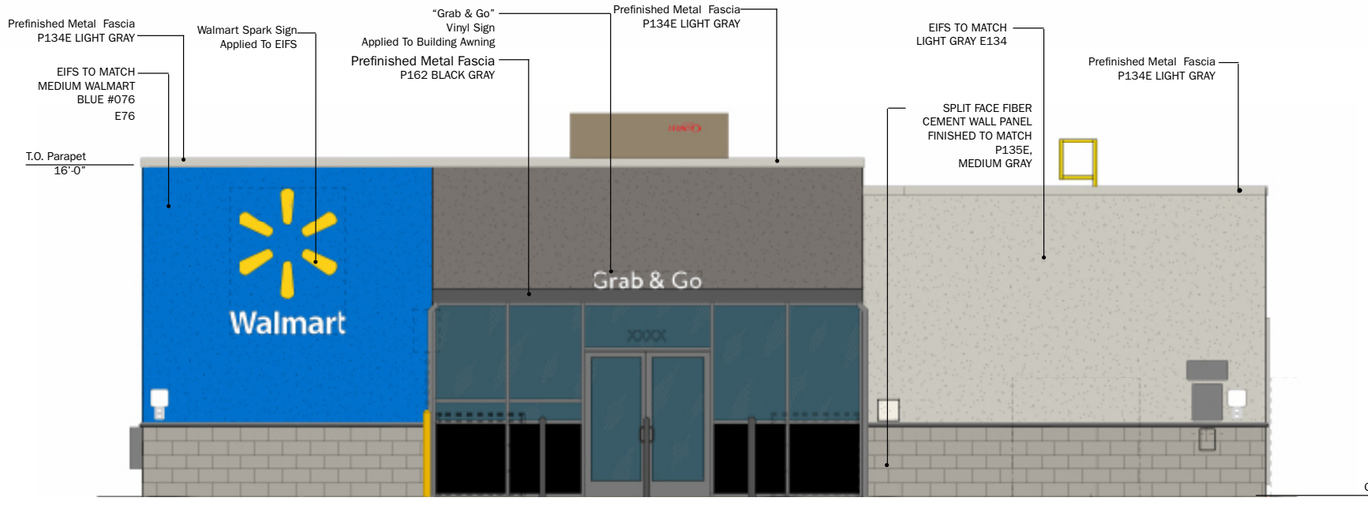
Enlarged Site Plan

N

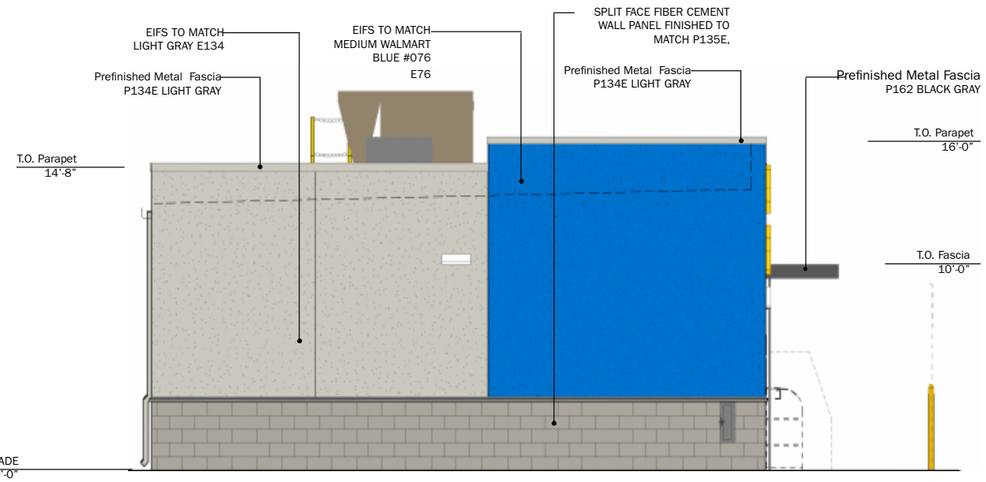




Proposed Left Side Elevation



Proposed Front Elevation



Proposed Right Side Eleva-

E49
Dark Gray

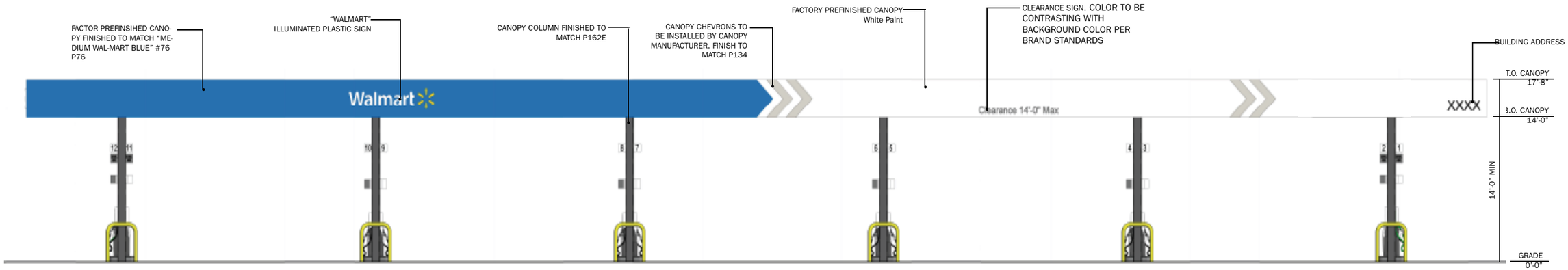
E76
Medium Walmart Blue

E134
Light Gray

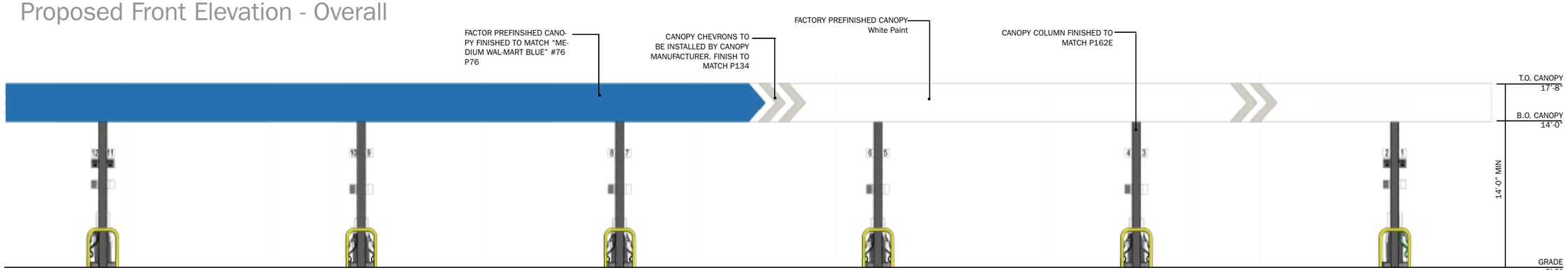
P134E
Light Gray

P135(E)
Medium Gray

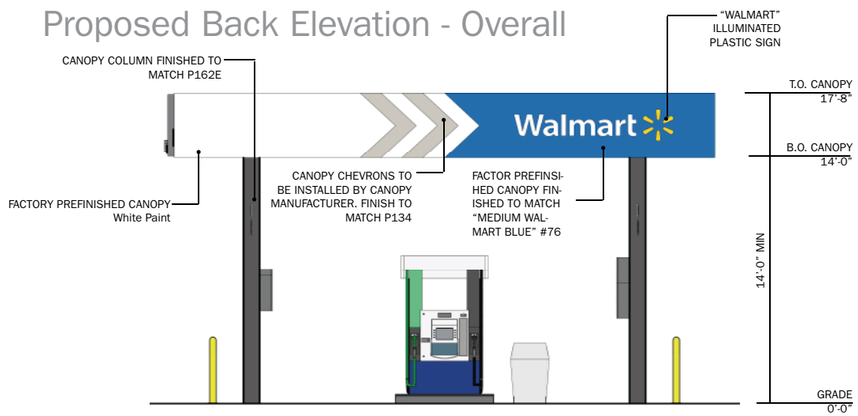
P162
Dark Gray
SW #7674 Peppercorn
Prefinished metal fascia



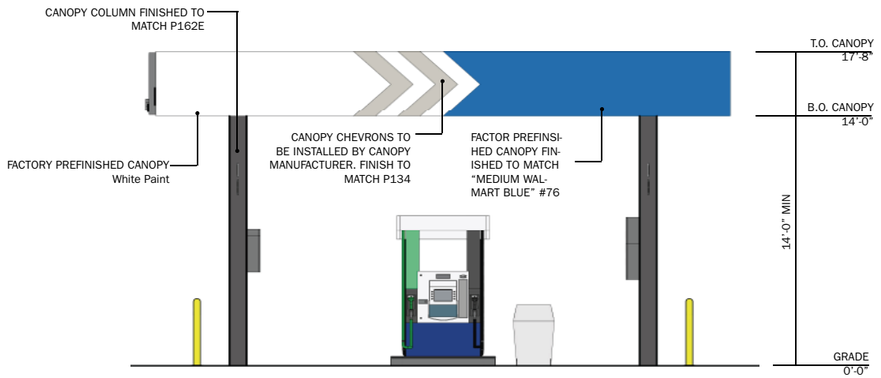
Proposed Front Elevation - Overall



Proposed Back Elevation - Overall



Proposed Right Side Elevation - Overall



P76 Medium Wal-mart Blue #076	P134 "Repose Gray" SW #7015	P140E White	P162E Black Gray
---	---	---	---

Site Signage Guidelines:

Freestanding Signs:

- Signage SF not available from Walmart sigange shop. Signage survey will be required to verify existing signage sizes.
- Monument Signs or Freestanding Signs located at a right angle to the R.O.W.: Each face shall be allowed 75% of the area otherwise permitted for the Main Sign.
- Gasoline service stations shall be limited to one (1) double-face dsign of an area not to exceed thirty-six (36) square feet on each side face. A freestanding sign, if approved, shall not exceed eight (8) feet in height.
- (3) Existing Monument signs. (2) Existing Monument signs will remain as-is with no changes. (1) Existing Monument signs will have 3 electronic fuel price readers added.
- 29 Palms Highway Small Monument Sign
  Existing Brand Signage Area: TBD
  Proposed Signage Area: TBD (no change)
- Avalon Avenue Small Monument Sign
  Existing Brand Signage Area: TBD
  Proposed Signage Area: TBD (no change)
- 29 Palms Highway Small Monument Sign
  Existing Brand Signage Area: TBD
  Proposed Signage Area: TBD
- (1) New 6'-0" h x 8'-2"w State Mandated Monument sign will

Fuel Station/Canopy Signage Guidelines:

Wall Signs:

- 1 Main Sign per frontage. Within 100' of R.O.W.: 1 SF per lineal foot of frontage not to exceed 50 square feet. In addition, a single ten (10) square foot sign, fixed fl at on the surface of the building, shall be allowed. The height of this sign shall not exceed twenty (20) feet.

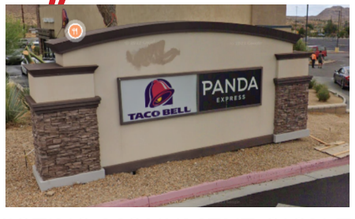
Convencience Store Signage:

Allowable Signage Area:	50 SF
Proposed Signage Area:	35.3 SF

Canopy Signage:

Allowable Signage Area:	
Front:	50 SF
Sides:	50 SF
Proposed Signage Area:	
Front:	18.63 SF
Sides:	18.63 SF

Walmart to design, permit, and construct site signs and lighting

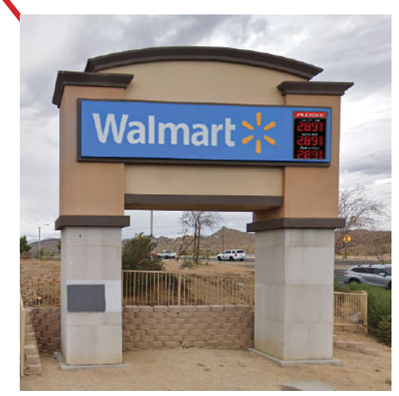


EXISTING MONUMENT SIGN TO RE-

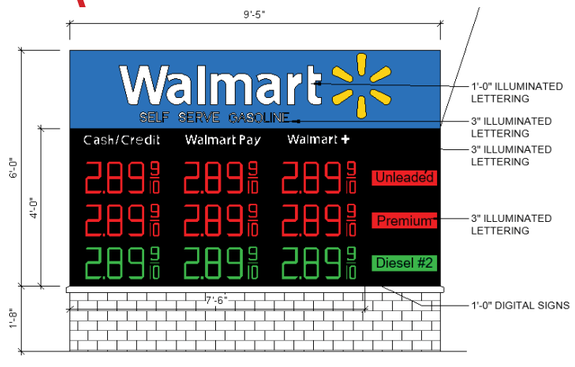
Google

← Walmart Canopy ID Sign

EXISTING PYLON



PROPOSED PYLON



PROPOSED STATE MANDATED SIGN

Disclosures

1915 Yucca Valley CA
58501 29 Palms Hwy, Yucca Valley, CA 92284

Disclosures:
Jurisdiction: Town of Yucca Valley CA https://www.yucca-valley.org/

- May have additional seismic requirements.
- ECR/Conditions of Approval information are only available through a public records request.

Zoning
Site is zoned CG – General Commercial https://codelibrary.amlegal.com/codes/yuccavalleyca/latest/overview

Disclosures:

Design standards to be verified by City of Yucca Valley Planning Department.

Site
The minimum structure setback from street property lines shall be forty feet (40'), unless otherwise approved by the commission for a reverse designed fueling service station (where rear of structure is placed adjacent to the street property line(s)).
- The minimum structure setback from other property lines shall be ten feet (10').
- The minimum standard width of driveways at the sidewalk shall be thirty feet (30').
- The centerline of driveways shall be perpendicular to the curb line.
- The minimum distance from any driveway to any interior property line shall be five feet (5'), and the minimum radius of the curb return for the driveway shall be twenty feet (20') from full height curb on the street.
- The minimum distance between curb cuts shall be thirty feet (30').

Parking
Parking shall comply with the design, parking ratio, and size requirements specified in chapter 9.33, "Parking And Loading Regulations", of this title, but accessory uses associated with the fueling service station shall be parked as follows:
- Accessory uses (e.g., car wash and/or minimarket, fast food restaurant) may be allowed subject to meeting off street parking standards for each accessory use.
- The total number of off street parking spaces shall be the sum total required for the various uses computed separately.

Fuel Pumps
All pump or fuel dispensing islands shall be set back a minimum of fifteen feet (15') from the closest property line. The maximum number of pumps or individual fuel dispensing appliances shall be as follows:
- Site size of twelve thousand (12,000) square feet or less shall be limited to eight (8) pumps or individual fuel dispensing appliances.
- Two (2) pumps or individual fuel dispensing appliances may be added for each additional two thousand (2,000) square feet of site area.

Walls
A solid decorative masonry wall of minimum six feet (6') high, and five foot (5') wide landscape buffer, should be erected along all property lines separating the site from any parcel zoned for residential purposes, and along all alley property lines if the property opposite is zoned for residential purposes. The design of the wall and the proposed construction materials shall be subject to review and approval through the site plan review process.

Landscaping
General Requirements:
- Setbacks: Setback and open space areas required by this development code shall be landscaped based on the requirements of this chapter, except the portion where a sidewalk or driveway occurs in the required setback. Required setbacks that are screened from public view in commercial and industrial zones, and are not adjacent to residentially zoned property, are exempt from the provisions of this chapter.
- Unused Areas: Areas of a project site not intended for a specific use shall be landscaped based on the requirements of this chapter, unless exempt in compliance with section 9.32.030, "Exemptions From The Landscaping Requirements", of this chapter.
- Parking Areas: Parking areas shall be landscaped in compliance with subsection 9.33.110K, "Landscaping Requirements For Parking Areas", of this article 3 and the water efficient landscaping requirements of this chapter.
- Landscaping In Lieu Of Parking Spaces: Landscaping may be provided in lieu of ten percent (10%) of the total number of parking spaces required, provided the landscaping is arranged so that parking may be installed at a later date if a demand arises, and further provided, that the owner agrees to provide parking at the request of the reviewing agency.

Yucca Valley Retail Specific Plan

Prepared for:

Town of Yucca Valley
58928 Business Center Drive
Yucca Valley, CA 92284

Approved by the Town Council
August 14, 2008
As Amended _____, 2026

Yucca Valley Retail
Specific Plan

Prepared for

Town of Yucca Valley
58928 Business Center Drive
Yucca Valley, CA 92284

Prepared by

Applied Planning, Inc.
5817 Pine Avenue, Suite A
Chino Hills, CA 91709

Approved by the Town Council
August 2008
As amended _____, 2026

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APPENDICES

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Appendix B: General Plan Consistency

Appendix C: Native Plant Survey

Appendix D: Comprehensive Sign Program

Appendix E: Conditions of Approval

SECTION 1: PLAN OVERVIEW

SECTION 1: PLAN OVERVIEW

1.1 - INTRODUCTION (PURPOSE & AUTHORITY)

The Yucca Valley Retail Center Specific Plan has been prepared pursuant to the provisions of the California Government Code, Title 7, Division 1, Chapter 3, Article 8, and Sections 65450 through 65457. The California Government Code authorizes jurisdictions to adopt Specific Plans by resolution as policy documents or by ordinance as regulatory documents. The law allows preparation of Specific Plans, as may be required for the implementation of the General Plan, and further allows for their review and adoption. Article 13 of Title 8, Division 3, Chapter 3 of the Development Code of the Town of Yucca Valley, provides the requirements and procedures for preparation and processing of Specific Plans in the Town. Specific Plans act as a bridge between the General Plan and individual development proposals. Specific Plans combine development standards and guidelines, capital improvement programs and financing methods into a single document that is tailored to meet the needs of a specific area.

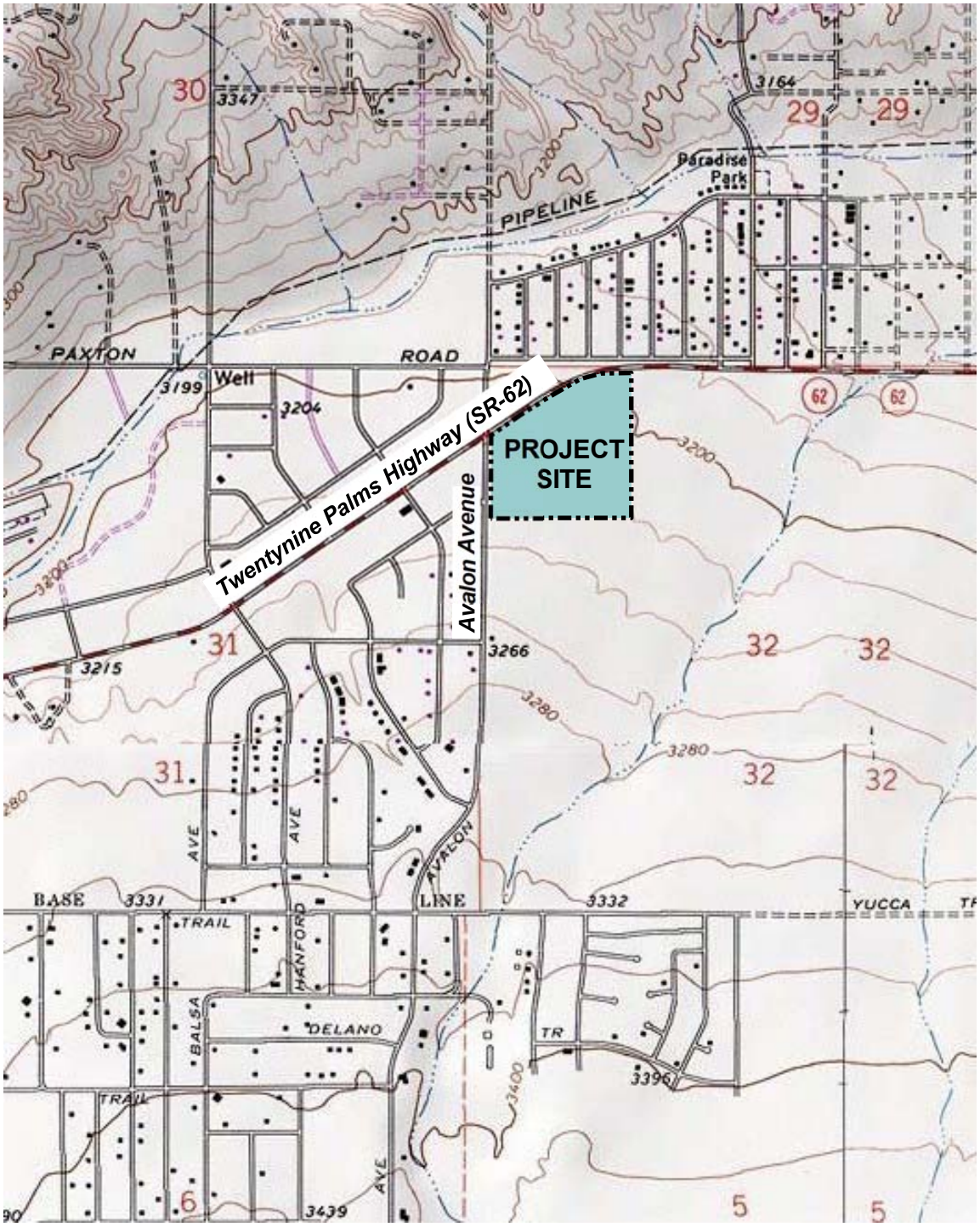
The Yucca Valley Retail Specific Plan, when adopted, will serve to implement the General Plan land use designation of "General Commercial" and zoning designation of "General Commercial District" for the project area. This Specific Plan establishes the development requirements and design guidelines to be applied to all development within the project area.

1.2 - PROJECT LOCATION

The project site encompasses approximately 25 acres located at the southeast corner of the intersection of Twentynine Palms Highway (State Highway 62) and Avalon Avenue. The legal description for the proposed project site is contained in Appendix A. The location of the project site is illustrated in Figure 1-1, "Regional Location" and Figure 1-2, "Project Vicinity."

Source: Applied Planning, Inc.

Figure 1-1
Regional Location



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NOT TO SCALE

Source: Applied Planning, Inc.

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Figure 1-2
Project Vicinity

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1.3 - PROJECT SETTING AND SITE FEATURES

The project site is designated by the General Plan of the Town of Yucca Valley as General Commercial, and the zoning is General Commercial District (C-G), and includes a Specific Plan (SP) overlay.

Existing Site Features

The average elevation of the project site is approximately 3,200 feet above mean sea level. The site slopes from the south to north with approximately 35 feet difference in elevation from the extension of Palisade Drive to State Highway 62.

The site is currently vacant land covered with native brush. Joshua trees and creosote bush are the dominant vegetative species. There are approximately 129 Joshua trees and two (2) Mojave Yucca within the project impact area where grading will occur. The Native Plant Survey (Appendix C) indicates that approximately 92 trees were determined to be salvageable. Both Yuccas are expected to be translocated successfully. The integration of these plants within the project landscape plan is described in Section 4.3, Landscape Concept.

Surrounding Land Use Designations

The project site is currently designated C-G, General Commercial. Property to the east is also designated C-G, and a Home Depot store has recently been constructed on this property. Property to the south is zoned I, Industrial and is currently vacant.

As previously mentioned, the adjacent property to the east has been recently developed for retail uses, including a Home Depot. This project will share a common entrance and exit on State Highway 62 with the Yucca Valley Retail Center.

The development of the project will require the construction of improvements, as shown on Figure 1-3. As part of the development of the adjacent Home Depot project, a number of off-site improvements were previously constructed that will serve both the proposed project and the Home Depot project. The proposed project is required to participate in a reimbursement arrangement for these improvements. Following is a list of the off-site improvements previously constructed to serve both projects:

1. Install Traffic Signal at State Highway 62 and the proposed primary project entrance (shared with the Home Depot Retail Center to the east of the project site).

2. Construct a shared driveway south of the new signalized intersection on State Highway 62.

3. Construct street improvements on the south side of State Highway 62 including medians along the street frontages of the Yucca Valley Retail Center and The Home Depot Retail Center.

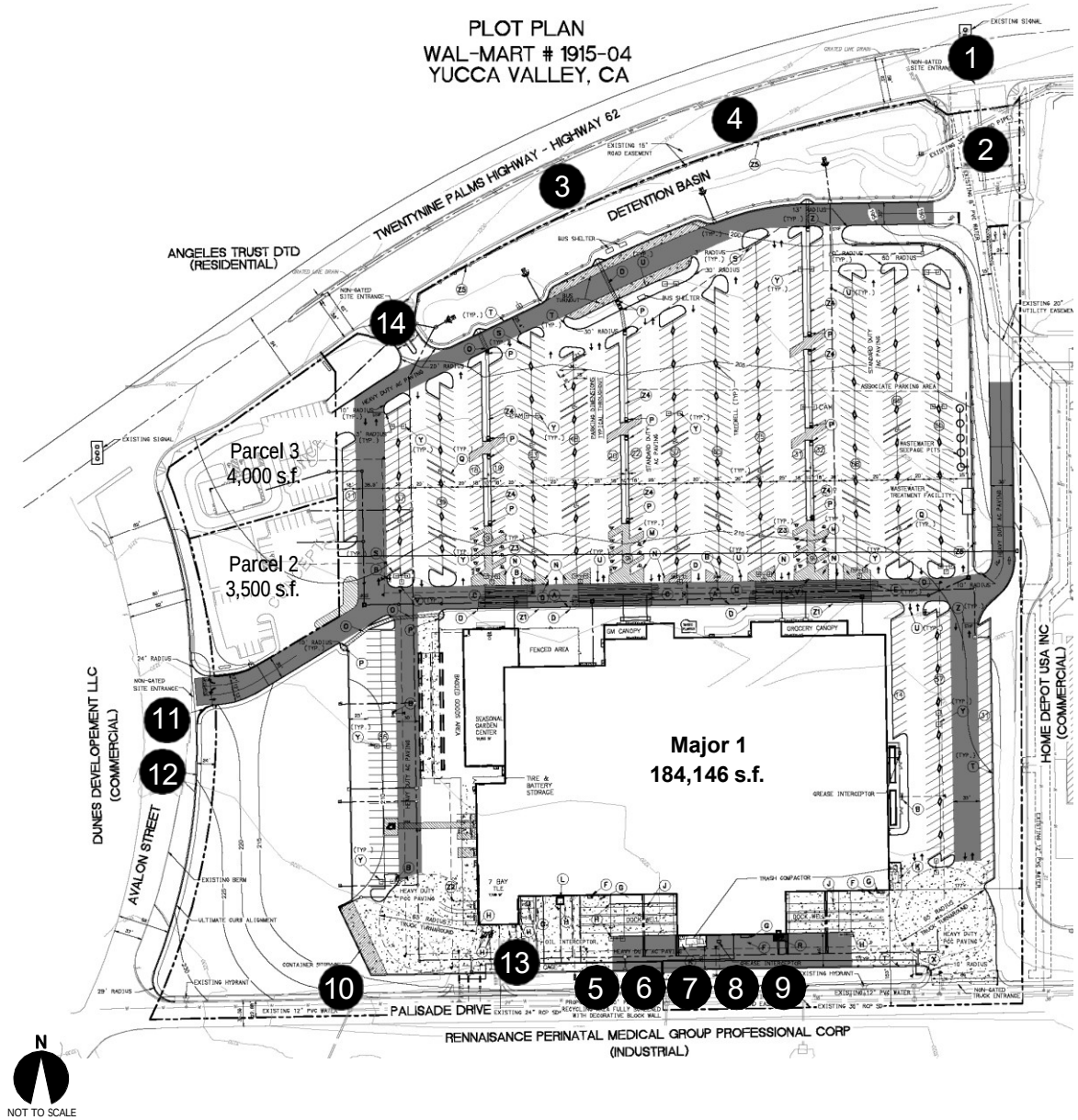
4. Construct catch basins and install drain pipes on State Highway 62 along the street frontages.

5. Construct permanent storm drain inlet structures and storm drain pipes in Palisade Drive.

6. Grade Palisade Drive southerly of the project site for improvements described in item 7 below.

7. Install a 12" Water Line in Palisade Drive southerly of the project site.

8. Construct 35-foot wide Palisade Drive southerly of the project site including: curb, gutter, sidewalk, and travel lanes on the north side of the street centerline and one lane on the south side of the street centerline.



Source: Nasland Engineering, Applied Planning, Inc.

Off-Site Improvements - Previously Constructed

1. Traffic Signal
2. Shared Driveway
3. Street Improvements
4. Catch Basins/Drain Pipes
5. Storm Drain Inlet/Storm Drain Pipes
6. Grade Palisade Drive
7. Install 12" Water Line
8. Construct 35'- Wide Palisade Drive
9. Install T-valves
10. Fire Hydrants

Off-Site Improvements - To Be Constructed

11. Widen Avalon Avenue
12. Construct curbs, gutters, sidewalk and travel lanes
13. Secondary Driveway from Palisade Drive
14. Secondary Driveway from State Highway 62

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Figure 1-3
Off-Site Improvements

9. Provide connection or T-valves at 300-foot intervals along Palisade Drive east of Avalon Avenue, southerly of the project site.

10. Provide fire hydrants at 300-foot intervals along the Yucca Valley Retail Center street frontage at Palisade Drive.

The following is a list of additional off-site improvements which will be constructed and funded as part of the Yucca Valley Retail Center:

11. Widen Avalon Avenue to allow full turn movements at the Yucca Valley Retail Center Driveway.

12. On Avalon Avenue, construct curbs, gutters, sidewalk and travel lanes on the east side of the centerline of Avalon Avenue. Median and traffic lane striping will be provided at Avalon Avenue.

13. Construction of a secondary driveway from Palisade Drive.

14. Construction of a secondary (right-in/right/out) driveway from improved State Highway 62 near the westerly property line.

1.4 - RELATIONSHIP TO THE GENERAL PLAN AND ZONING ORDINANCE

The Yucca Valley Retail Center Specific Plan implements the goals and policies of the Town of Yucca Valley General Plan within the Specific Plan area. The goals and objectives found in the Land Use Element support the Town's desire to continue to create a future in which the traditional character of the Town is preserved and enhanced by new development. Appendix B, the General Plan Consistency Analysis, demonstrates how the Yucca Valley Retail Center implements applicable goals and objectives of the General Plan. Various land use goals that support a viable economic future direction for the Town while preserving its traditional character are described.

Because an adopted specific plan must be consistent with the Town General Plan, all projects that are found to be consistent with this Specific Plan are deemed consistent with the General Plan.

The Yucca Valley Retail Center Specific Plan works in concert with the Town of Yucca Valley Development Code, but provides additional development standards and guidelines that are customized to achieve the specific vision for the project area. The Town's zoning standards are utilized for certain aspects, such as parking, while the Specific Plan provides other standards that are tailored to the Yucca Valley Retail Center. Development projects and new uses shall be subject to the review procedures, findings and provisions of the Town of Yucca Valley Development Code and the provisions of this Specific Plan. Related and/or subsequent approvals, such as Conditional Use Permits, Site Plan Reviews, and Parcel Maps, must be consistent with both the guidelines of the Yucca Valley Retail Center Specific Plan and the Town's Development Code.

Where development regulations in this Specific Plan differ from those established in the Town Code, the provisions of the Yucca Valley Retail Specific Plan shall prevail. Where this Specific Plan is silent on a development regulation, the Town Code shall prevail.

1.5 - PROJECT OBJECTIVES

The purpose of the Yucca Valley Retail Specific Plan is to define the range of permitted uses, development regulations, requirements, and design guidelines for the development of the project area. Implementation of this Specific Plan will accomplish the following objectives:

- Provide for the orderly and master planned development of land uses within the project area, to ensure that an economically viable project or projects can be developed.

- Allow the potential for development of high quality commercial uses within an undeveloped portion of the Town.

1.6 - COMPLIANCE WITH CALIFORNIA ENVIRONMENTAL QUALITY ACT

Adoption or amendment of a Specific Plan constitutes a project under the California Environmental Quality Act (CEQA). An Environmental Impact Report (EIR) SCH# 2005051047 has been prepared in accordance with the CEQA Guidelines (CCR, Title 14, Division 6, Chapter 3 Section 15000-15387), and Guidelines Section 15161 ('Project EIR') in particular, to analyze the environmental impacts of the Yucca Valley Retail Center Specific Plan. The EIR establishes the existing, on-site environmental conditions and evaluates the potential impacts of this Specific Plan. The EIR references project design features and includes various mitigation measures that will be implemented through either the Mitigation Monitoring Plan or Conditions of Approval.

The graphic illustrations, rendering, and photos included in this Specific Plan, are illustrative, including with respect to number of buildings, building and sign locations and orientation, and alignment of streets or drive aisles. Unless otherwise specified, all graphic illustrations and photos shall be interpreted as conceptual design and subject to final site plan approval in substantial conformance with the Specific Plan.

SECTION 2: LAND USE

SECTION 2: LAND USE

2.1 - LAND USE PLAN

The project area is approximately 25 acres in size and is generally bounded by State Highway 62 to the north, developed lands to the east, Palisade Drive to the south, and Avalon Avenue to the west. Please also refer to Figure 2-1, "Specific Plan Land Use Concept." A general description of uses proposed within the Specific Plan is provided below.

2.2 - LAND USE SUMMARY

Parcel 1 (23.85 acres [ac]) will be developed with approximately 184,146 square feet (s.f.) single retail use, associated parking, a fuel station including a convenience store and fueling canopy with up to 12 fueling positions, and a stormwater retention basin. Parcel 2 (0.75 acres) will be developed with a 3,500 s.f. retail use. Parcel 3 (0.84 acres) will be developed with a 4,000 s.f. fast-food restaurant use. Open space areas throughout the site will be landscaped in accordance with the approved plant palette and will serve a variety of functions, including separation and buffering from adjacent uses, providing visual amenity, and stormwater detention. A summary of proposed land uses is presented in Table 2-1. Additional specificity regarding these uses is presented in Section 3.0, "Commercial Use Regulations" of this document.

Table 2-1

Yucca Valley Specific Plan Land Use Summary

Land Use	Parcel Area	Building Area	Comments
Parcel 1	23.85 ac	184,146 s.f. retail 1,556 s.f. convenience store	General merchandiser with grocery sales and garden center, a fuel station with canopy, dispensers, and a convenience store, and a stormwater retention basin
Parcel 2	0.75 ac	3,500 s.f.	Retail
Parcel 3	0.84 ac	4,000 s.f.	Fast-Food Restaurant
Total	25.44 ac	193,202 s.f.	

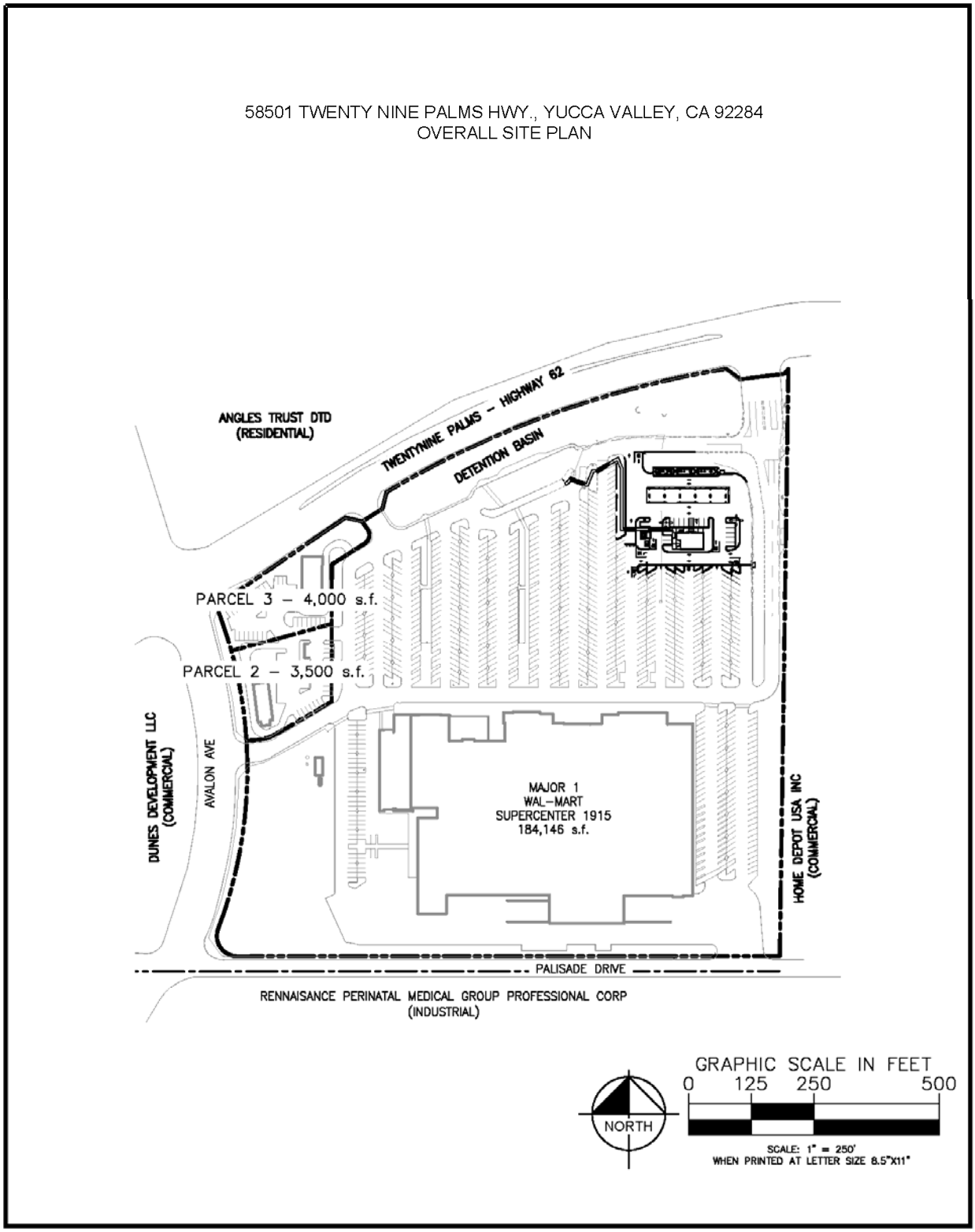


Figure 2-1
Specific Plan Land Use Concept

SECTION 3: COMMERCIAL USE REGULATIONS

SECTION 3: COMMERCIAL USE REGULATIONS

3.1 - GENERAL PROVISIONS

The regulations provide for implementation of a General Commercial (C-G) District classification as a community-level commercial shopping center, anchored by a retail store consisting of a total of 184,146 square feet, with all appurtenant structures and facilities for the sale of general merchandise, groceries, liquor and other alcoholic beverages, including without limitation, a garden center, truck docks and loading facilities, tire and lube facilities, outdoor sale facilities, a bagged goods pick-up area, rooftop proprietary satellite communication facilities and parking facilities. The store may contain, without limitation, a drive thru pharmacy, a vision care center, a food service center, a photo studio, a photo finishing center, a banking center and an arcade. The store may, among other things, carry pool chemicals, petroleum products, pesticides, paint products, firearms and ammunition. The store may be developed in more than one phase and will operate on a 24-hour basis.

The standards set forth in this section will ensure that future development proceeds in a manner consistent with Town requirements and design guidelines. Upon adoption of the Yucca Valley Retail Center Specific Plan by the Town of Yucca Valley, this Specific Plan shall be the zoning document for the subject property, superseding other zoning designations and development standards of the Town of Yucca Valley as described herein. If not specifically addressed in this Specific Plan, the applicable provisions of the Town of Yucca Valley Development Code shall apply.

3.2 - PERMITTED USES

Those uses specified below and in Section 84.0350 of the Town of Yucca Valley Development Code (CG-General Commercial District) shall apply.

3.2.1 Principal Uses: The following uses shall be permitted, subject to approval of a Site Plan Review, as specified in Section 6.2 herein:

a. General Retail Merchandiser, including:

- The sale of general merchandise, including groceries, liquor and other alcoholic beverages. The store may, among other things, carry pool chemicals, petroleum products, pesticides, paint products, firearms and ammunition.
- A garden center.
- Tire and lube facilities.
- A drive thru pharmacy.
- A vision care center.
- A food service center.
- A photo studio.
- A medical clinic.
- A photo finishing center.
- A banking center.
- An arcade.
- A bagged goods pick-up area.
- Truck docks and loading facilities.
- Outdoor sale facilities.
- Rooftop proprietary satellite communication facilities, which will be screened by the parapet wall.
- Parking facilities.

b. Restaurant, including:

- Full-service restaurant.
- Fast food with drive-thru, take out, delivery.

c. Automobile gas station

d. Other Commercial Uses designated 'SPR' Site Plan Review in Section Table 2-15 of the Development Code.

3.2.2 Operations: The following describes the operations of the major tenant of the Yucca Valley Retail Center, which are part of the primary retail sales as listed in Section 3.2.1, a.

a. Outdoor Seasonal Garden Area - Approximately 10,000 square feet. A minimum of eight special events per year lasting no more than two weeks, exclusive of the holiday season, including the period from Thanksgiving through New Year's Day.

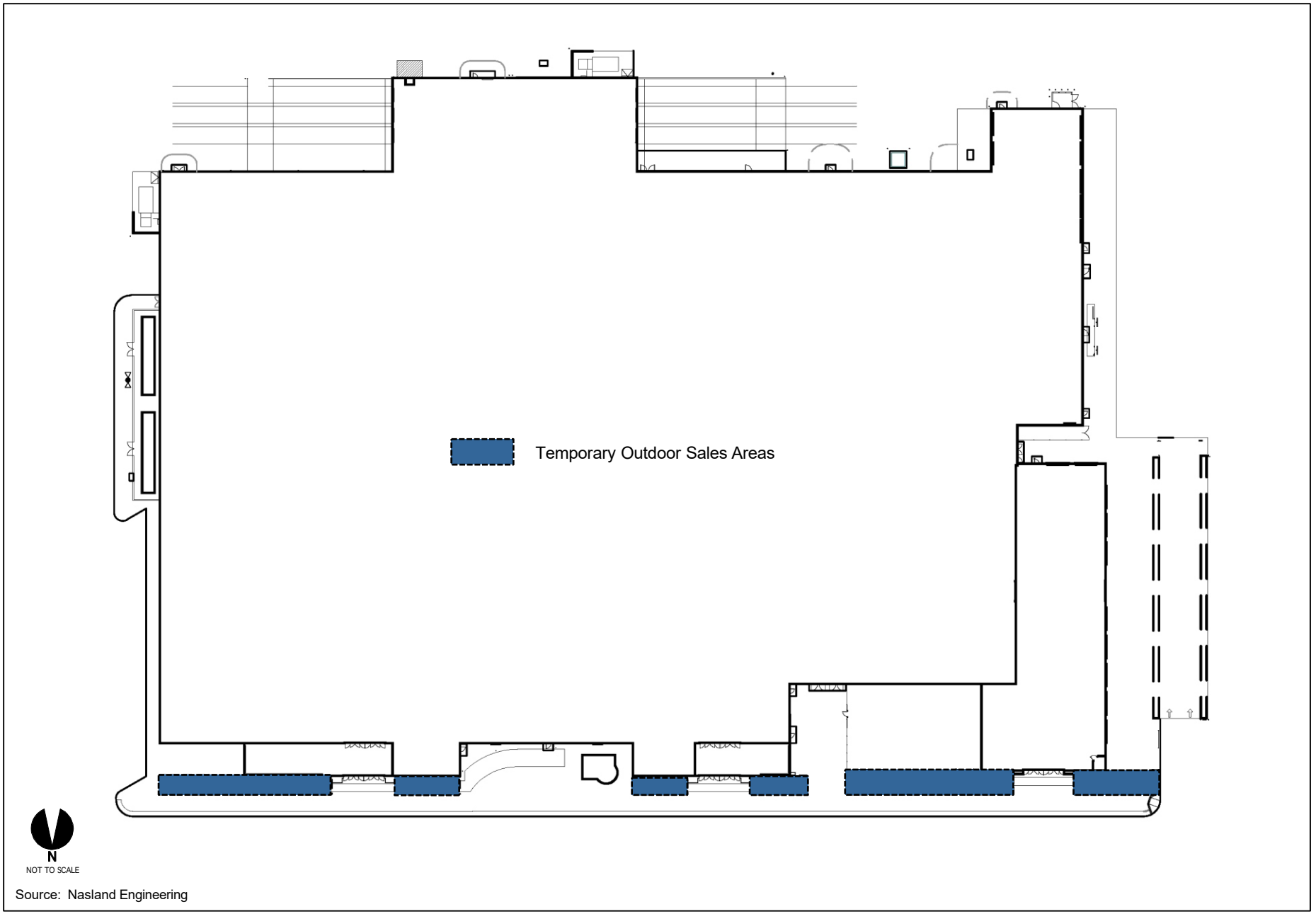
b. The project will be permitted, by right, to leave the outdoor display items along the front of the store overnight, in specified areas shown in Figure 3-1. Additionally, tents and awnings will be used in conjunction with seasonal sales and enclosed by a chain link fence for security.

c. The project will be permitted, by right, to display merchandise in front of the store in designated areas on a daily basis. These areas are shown in Figure 3-1.

d. The project will be permitted, by right, to place vending machines in vestibules inside the store.

e. The project will be permitted, by right, to install pay phones in vestibules inside the store.

f. The major anchor will be permitted, by right, to operate the store 24 hours.



Source: Nasland Engineering

Figure 3-1
Outdoor Sales Areas

3.2.3 Uses Permitted Subject to a Conditional Use Permit: The following uses may be permitted on the project site, subject to approval of a Conditional Use Permit:

a. Arcade (Freestanding)
b. Automobile rental
c. Convenience store
d. Entertainment, live (excluding adult entertainment)
e. Fitness centers
f. Maintenance & repair services: major

3.3 - DEVELOPMENT STANDARDS

The following Property Development Standards shall apply.

Maximum Structure Height	40 feet
Minimum Lot Size	0.70 acre
Maximum Building Lot Coverage	60 percent
Maximum Lot Dimension (width to depth ratio)	1:3
Minimum lot dimensions (width to depth ratio)	120 feet x 120 feet
Front Yard Setback	15 feet
Side Yard Setbacks	10 feet (only one side yard is required to provide emergency access. If the adjacent property is not designated commercial or industrial, a side yard shall be required along that side of the property.)
Rear Yard Setback	10 feet (A rear yard is required only when the adjacent property is not designated commercial or industrial.)
Street Side Setbacks	10 feet
Maximum Floor Area Ratio (FAR - FI. Area/Lot Area)	1.20
Minimum District Size	5 acres

Fuel Station Development Standards

The minimum structure setback from street property lines shall be forty feet (40′), unless otherwise approved by the Planning Commission for a reverse designed fueling service station (where rear of structure is placed adjacent to the street property line(s)).

- The minimum structure setback from other property lines shall be ten feet (10′).
- The minimum standard width of driveways at the sidewalk shall be thirty feet (30′).
- The centerline of driveways shall be perpendicular to the curb line.
- The minimum distance from any driveway to any interior property line shall be five feet (5′), and the minimum radius of the curb return for the driveway shall be twenty feet (20′) from full height curb on the street.
- The minimum distance between curb cuts shall be thirty feet (30′).

Fuel Pumps

All pump of fuel dispensing islands shall be set back a minimum of fifteen feet (15′) from the closest property line. The maximum number of pumps or individual fuel dispensing appliances shall be as follows:

- Site size of twelve thousand (12,000) square feet or less shall be limited to eight (8) pumps or individual fuel dispensing appliances.
- Two (2) pumps or individual fuel dispensing appliances may be added for each additional two thousand (2,000) square feet of site area.

3.4 - PARKING REQUIREMENTS

Parking for the major tenant of the Yucca Valley Retail Center shall be provided at a ratio of 1 space per 250 square feet of building area. All other land uses shall provide parking in compliance with the Yucca Valley Development Code.

Accessory uses associated with the fueling service station shall be parked as follows:

- Accessory uses (e.g., car wash and/or minimarket, fast food restaurant) may be allowed subject to meeting off street parking standards for each accessory use.

- The total number of off street parking spaces shall be the sum total required for the various uses separately.

3.5 - SIGNAGE AND LIGHTING

3.5.1 **Master Sign Program Intent**

The intent of the Master Sign Program is to achieve a visually coordinated, balanced and appealing signage system throughout the Yucca Valley Retail Center, particularly one that promotes compatibility with the architectural styles and landscape concepts identified within this Specific Plan.

The regulating signage document for the Specific Plan will be a Master Sign Program (MSP). Project-level signage will require a site-specific Sign Plan in conformance with the MSP and in accordance with Section 3.5 of the Specific Plan. In the event of conflict between the Yucca Valley Municipal Code and the Specific Plan, the Specific Plan shall prevail.

3.5.2 **Master Sign Program**

The MSP is a separate stand-alone document that establishes the standards and guidelines for all signs within the Specific Plan. The MSP will also provide guidance for the general location and design of project-level signage. Processing of the MSP is outlined in Appendix D of the Specific Plan.

The design and configuration of all proposed signs is conceptually presented within the Master Sign Program, which is provided as Appendix D. Sign locations are also presented in Figure 3-2, "Monument and Sign Locations."

3.5.1 **Freestanding Sign Area**

Anchor Tenant: The cumulative total sign area allowed for freestanding signs shall be one (1) square-feet per five (5) linear feet of street frontage on which the sign is located. No single sign area of freestanding signs (i.e., Pylon sign) shall exceed hundred (100) square feet per side.

- The anchor tenant pylon sign will not exceed twenty-five (25) feet in height and twenty-two (22) feet in length.
- The anchor Tenant pylon sign shall have sign are of twenty (20) feet in length and five (5) feet in height.

Outparcel Tenant: Outparcel building pads located adjacent to a highway or street may be permitted a monument sign not to exceed 25-square feet of sign area per side.

- There are three (3) proposed freestanding monument signs, including one state-mandated monument sign with electronic fuel price readers.
- Outparcel tenant monument signs are not to exceed 8 feet in height and 19 feet in length.
- Outparcel tenant monument sign shall have sign are of ten (10) feet in length and two (2) feet in height.
- The gasoline service station shall be limited to one (1) double-face design of an area not to exceed 36 square feet on each side face.

3.5.2 **Wall Sign Area**

Wall signs are proposed on the facades of the anchor and outparcel tenants, including the fuel station canopy.

Anchor and Outparcel Tenant: For each use or occupancy, one building sign per building frontage oriented towards a street, driveway, or parking area based on a maximum of one (1) square-foot of sign area per one linear foot of use or occupancy.

- Anchor Tenant: Maximum of 560.57 square feet of building signage area per building side.
    - Maximum of 555.80 square feet of total sign area.
    - The Master Sign Program shall define sign area for all signs demonstrating compliance within eh maximum total sign area.
- Outparcel Tenant: Maximum of one (1) square foot per lineal foot of building frontage.
- Fuel Station:
    - The fuel station canopy and convenience store are permitted fifty (50) square feet of allowable signage area.
    - A single ten (10) square foot sign, fixed flat on the surface of the building shall be allowed.
    - The height of this sign shall not exceed twenty (20) feet.

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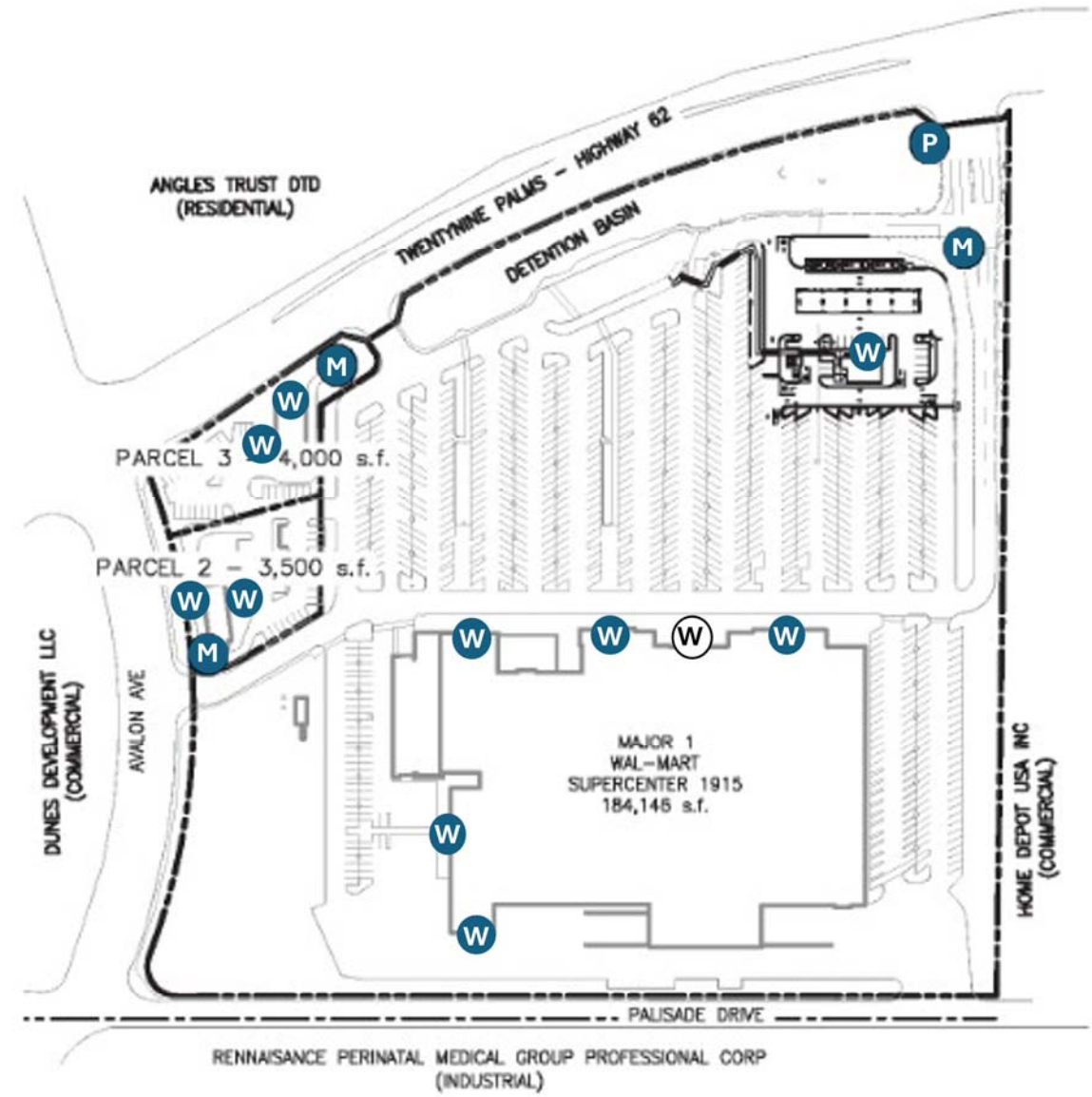

Legend

- P — Pylon Sign
- M — Monument sign
- W — Wall Sign, Illuminated
- W — Wall Sign, Non -Illuminated

Figure 3-2
Monument and Sign Locations

3.5.3 **Illuminated Signs**

Anchor Tenant Identification Sign:

- The sign shall be located approximately in the center of the building and will consist of channel letters with vacuum formed face (pan formed) anchored to the building surface.
- The identification sign, comprised of two lines of illuminated text, will be internally illuminated with fluorescent tube or LED.
- The illuminated text in the sign will not exceed seven (7) feet in height and thirty-eight (38) feet in length. The total sign area will not exceed 229 square feet.

Outparcel Tenant Sign:

- The buildings proposed on Parcel's 2 and 3 will be permitted wall signage not to exceed the limits of YVMC, Section 87.07122 § b.1.A of Ordinance No. 156, which allows a maximum of one (1) square-foot of sign area per one (1) square-foot of linear building frontage.
- These will consist of channel letters with vacuum formed face (pan formed) anchored to the building surface. The signs will be internally illuminated with fluorescent tube or LED.

3.5.4 **Non-illuminated Signs**

Anchor Tenant Wall Signs:

- On the anchor tenant building, excluding the non-illuminated text within the anchor identification sign, the total amount of non-illuminated wall signage will not exceed 370.57 square feet.
- A total of ten (10) non-illuminated identification and directional signs will be placed on the anchor tenant building. These signs will consist of Plexiglas formed letters that are stud mounted to the wall. A complete inventory of these signs shall be presented within the approved Master Sign Program.
- Non-illuminated wall signs consist of between one and three lines of text. No single line of text will exceed 2-feet and 6-inches in height and 23-feet 11 ½- inches in length.

SECTION 4: DESIGN GUIDELINES

SECTION 4: DESIGN GUIDELINES

4.1 - GRADING CONCEPT

The existing topography of the site could generally be described as a sloped desert landscape. The site naturally drains from a northwest to southwest direction.

The proposed grading concept, presented in Figure 4-1, illustrates the extent of grading required to achieve the design concept for the Project. This grading plan will provide level building pads for the proposed structures, assure safe and adequate drainage patterns across the project site, and manage the conveyance of storm water run-off to appropriate discharge and/or detention facilities. The finish grade would generally drain in a south to north direction.

In addition, grading will occur as part of the construction of the shared off-site improvements as part of the Phase 1 improvements listed in Section 6.1. The easements for these improvements will be a condition on the subdivision maps for the project. The Grading Plan is designed to follow the requirements of the Town of Yucca Valley development ordinances and is to be submitted to the Town for review, approval, and permit issuance prior to the initiation of grading.

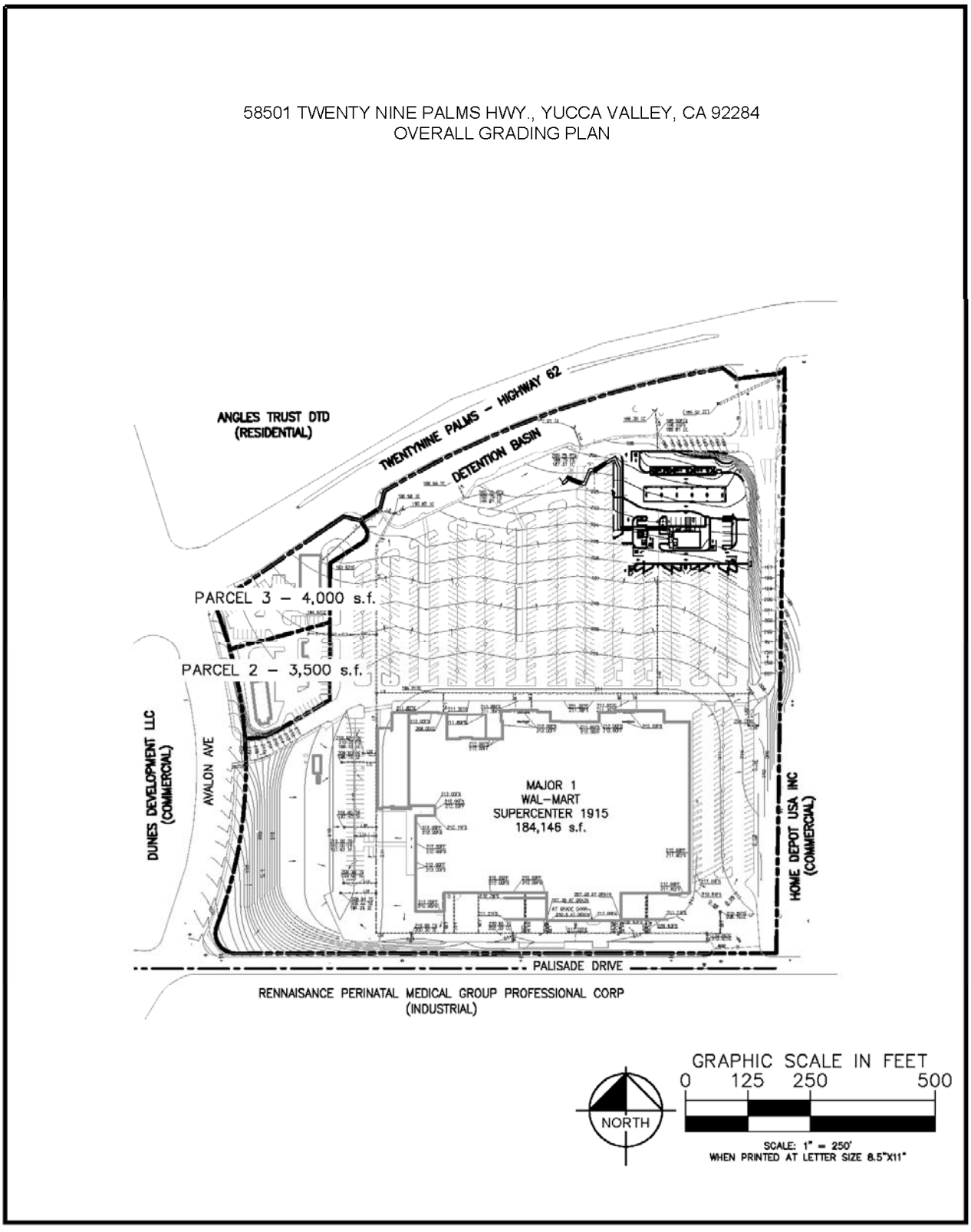

Figure 4-1
Grading Concept

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4.2 - ARCHITECTURAL CONCEPT

The architectural style of the Yucca Valley Retail Center will conform to exterior materials, treatments, and colors reflected in the building elevations depicted in Figures 4-2A through 4-2C.

Development within the project area shall comply with the design guidelines contained within the adopted Town Code. Except as provided herein, the design guidelines in the Town Code shall apply to all improvements within the project area, including new construction, remodels, additions, landscaping, paving, signage, amenities, and related facilities. They are provided to guide developers, builders, architects, engineers, landscape architects, and others involved in the preparation of future development proposals to ensure a consistent level of quality throughout the project area. The design guidelines will assist the Town of Yucca Valley staff and decision-making authorities with criteria to evaluate future development proposals.

Architectural Design Objectives

- To establish a comprehensively designed project that incorporates unity through the use of complementary colors, materials, and landscape themes.

- To design within the context of the local environs.

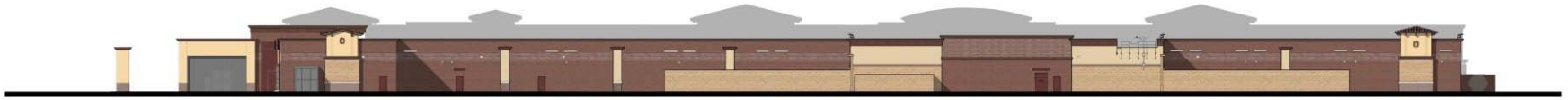
- To create a project that provides for efficient circulation for both vehicles and pedestrians.

Architectural Design Guidelines

These Architectural Design Guidelines are intended to provide an overall direction in the design of structures within the Specific Plan. No particular style is intended to dominate; however, architectural concepts shall be compatible with existing, surrounding uses. These Guidelines are meant to be flexible over time and correspond with changing conditions in lifestyles, the marketplace, and economic conditions.

North Elevation

West Elevation



South Elevation

East Elevation

Source: WPIIDC, Inc.

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Figure 4-2A
Building Elevations

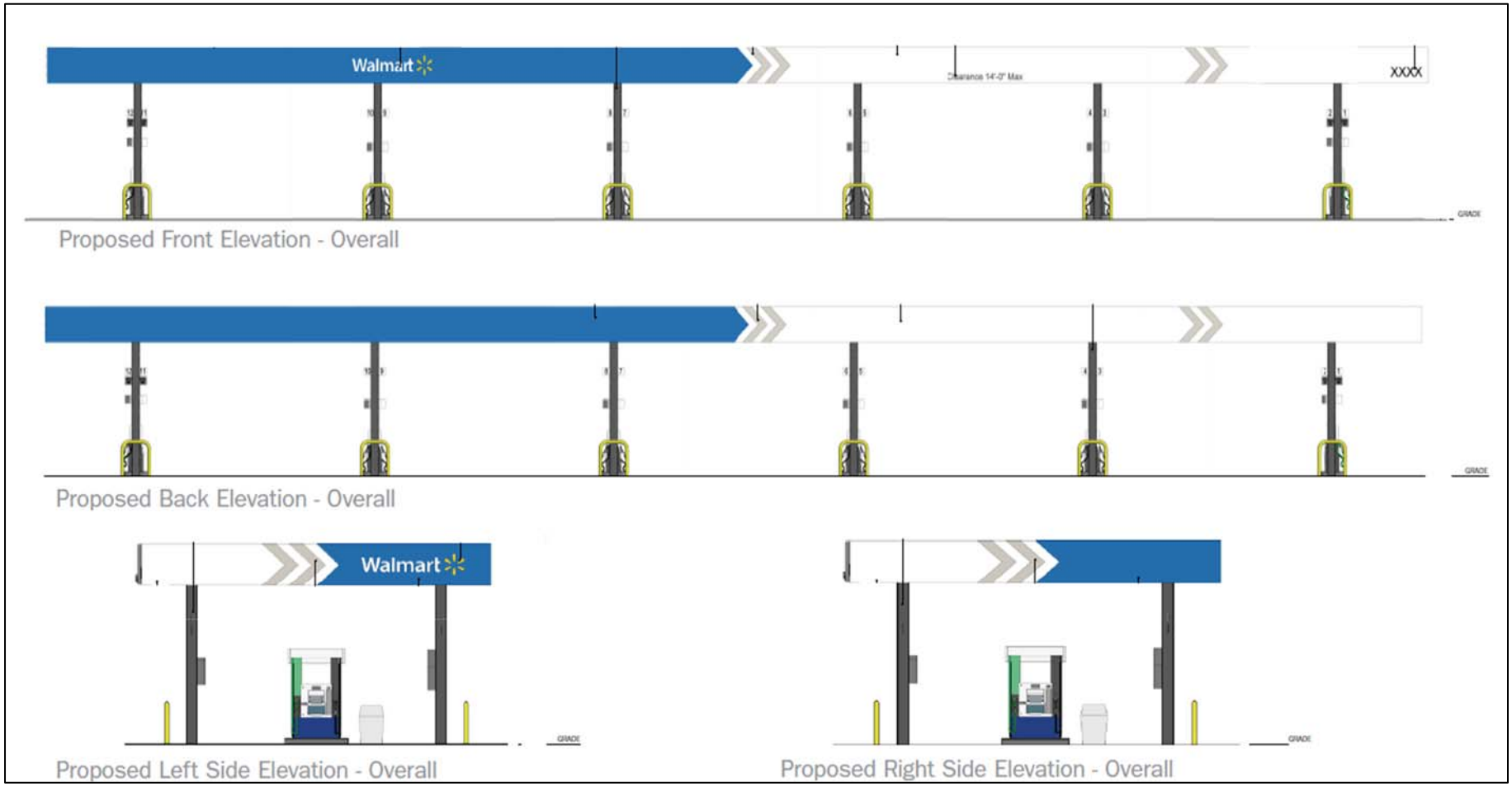

Figure 4-2B
Fuel Station Building Elevations

Figure 4-2C
Convenience Store Building Elevations

Building Mass, Form and Elements

Building massing, scale, and roof forms are the primary design components within the Yucca Valley Retail Specific Plan. Therefore, these require careful articulation. The rear and side elevations, as well as the front, should provide variation in massing, wall, and roof forms. Repetitive elements and modular materials are important elements and are encouraged.

Building Materials

Materials should be selected and detailed for compatibility throughout the site. Buildings should incorporate a mix of at least two of the prevalent materials, including block, block veneer, stucco, wood, or tile. These materials shall be used in traditional combinations that yield an impression of permanence as well as respect for the surrounding environment. Please refer also to Figure 4-3, "Color and Materials."

Color Palette

The use of complementary earth tones should be applied to building facades. The use of a neutral color palette and stone and/or tile accents that shall be repeated on multiple structures will act to unify the Specific Plan area. Company logos and colors shall be allowed on trims and accents. Acceptable materials and colors are presented within Table 4-1.

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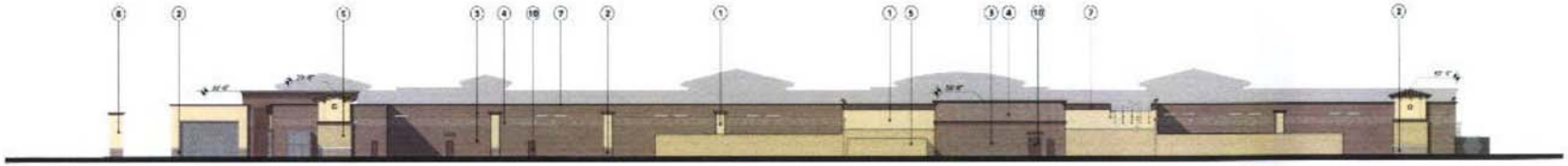
Table 4-1

Proposed Materials and Color Palette

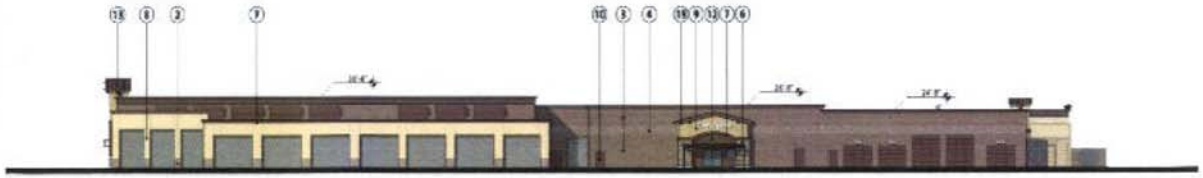
Major 1 Materials and Color Palette	
1. Smooth Face Block	Angelus Block 8"x8"x16" Color: "Champagne"
2. 4-Score Split Face Block	Angelus Block 10"x8"x16" Color: "Wine"
3. Split Face Block	Angelus Block 8"x8"x16" Color: "Sienna Brown"
4. Smooth Face Block	Angelus Block 8"x8"x16" Color: "Wine"
5. Split Face Block	Angelus Block 8"x8"x16" Color: "Sandstone"
6. Wall	Coronado Stone – Desert Ridge "Rustic Southern Ledgestone"
7. Trim/Cornice	Color: Sherwin Williams SW2808 "Rockwood Dark Brown"
8. Wall	Color: Sherwin Williams SW6113 "Interactive Cream"
9. Wall, Doors	Color: Sherwin Williams SW6115 "Totally Tan"
10. Wall, Doors	Color: Sherwin Williams SW6034 "Arresting Auburn"
11. Clay Roof Tile	Eagle Roofing Capistrano "Mission Red Flashed"
12. Storefront	1 ¾" x 4" Aluminum Frames "Dark Bronze"
13. Trellis, Beams	Color: Sherwin Williams SW3524 "Chestnut"
14. Fence	Ameristar Painted Steel Picket Fencing "Black"
Fuel Station and Convenience Store Materials and Color Palette	
1. Wall (Primary – Fiber Cement Panel)	P135SE – Medium Grey
2. Wall (Exterior Insulation and Finish System [EIFS] Accent)	E76 – Medium Walmart Blue
3. Wall (EIFS Field Color)	E134 – Light Gray
4. Fascia	P134E – Light Gray
5. Fascia (Accent)	P162 – Black Gray
6. Canopy Finish	P76 – Medium Walmart Blue
7. Canopy Chevron	P134 – Repose Gray / SW7015
8. Canopy Columns	P162E – Black Gray
9. Wall (Accent Base)	E49 – Dark Gray / SW7674
10. Sign Background (Canopy Clearance)	P140 – White Paint
11. Wall Signage	Vinyl (Applied)

Expanded Materials and Color Palette for Outpad uses	
Split Face Block	
Angelus Block 8"x8"x16" Color: "Sandstone" Split Faced	
Angelus Block 8"x8"x16" Color: "Sienna Brown" Split Faced & Fluted	
Angelus Block 8"x8"x16" Color: "Wine" Smooth Face	
Paint Color – Sherwin Williams:	
SW6114 "Bagel"	
SW6116 "Tatami Tan"	
SW6034 "Arresting Auburn"	
SW2808 "Rockwood Dark Brown"	
SW6115 "Totally Tan"	
SW6046 "Swing Brown"	
Trellis	Wood: Stain Color: OK627 Other: Wildgrasses Frazee 8175D

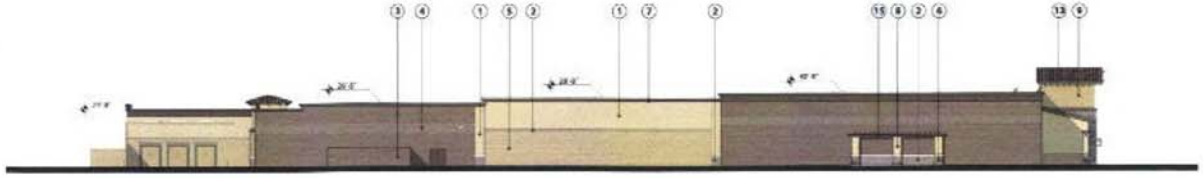
North Elevation



South Elevation



West Elevation



East Elevation

Materials

Source: WPIIDC, Inc.

Figure 4-3A
Color and Materials

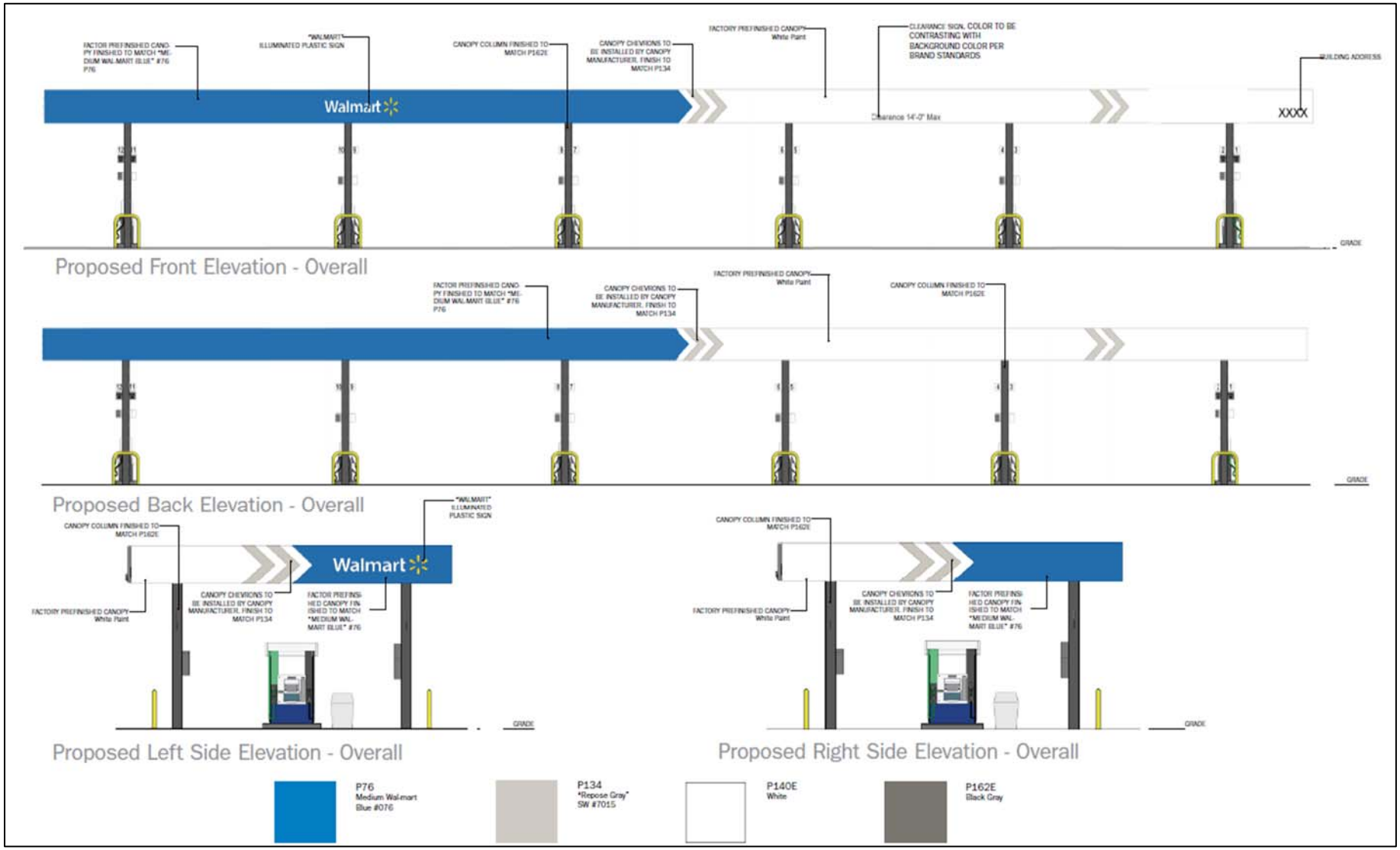


Figure 4-3B
Fuel Station Color and Materials

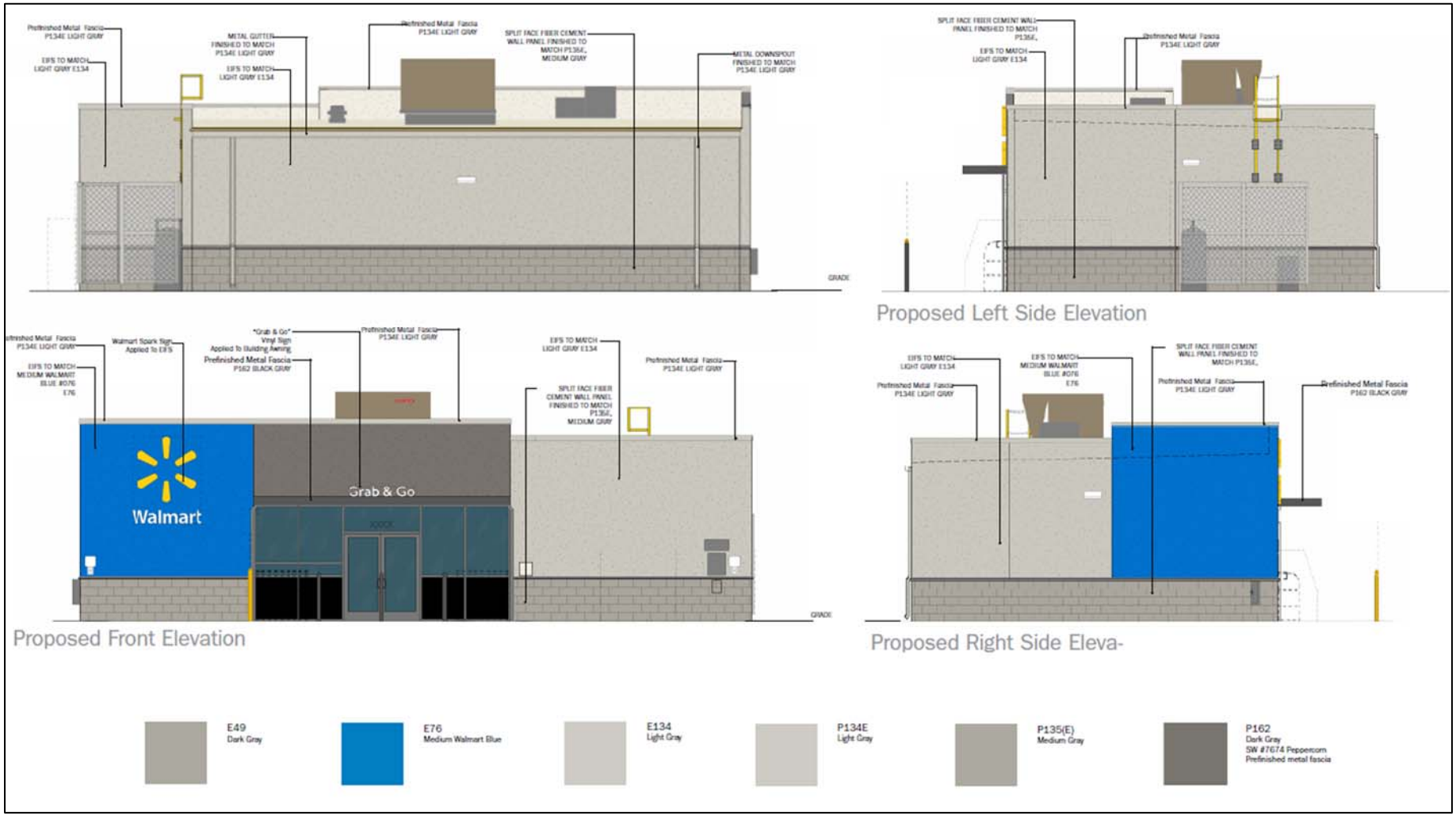


Figure 4-3C
Convenience Store Color and Materials

4.3 LANDSCAPE CONCEPT

The landscaping and streetscape of the Yucca Valley Retail Specific Plan is an important component of project development. Quality in landscape design will serve to enhance the overall appearance and character of the entire Specific Plan development. Please refer also to Figure 4-4, "Landscape Plan Concept." Landscape/streetscape criteria include the following:

- Commercial entry monumentation will be compatible with the building architecture and provide a statement of identification. A distinctive landscape theme will be developed at these entries and maintained throughout the site.
- Xeriscape landscaping shall be used and the design shall reflect the surrounding community's desert character.
- Shrubs and trees will be planted around the buildings to soften building architecture, as well as to enhance and define spaces. All slopes greater than 3:1 gradient that occur within the Specific Plan site will be planted with ground cover, shrubs and trees. All planted areas will be irrigated with an automatic system.
- Parking lot tree plantings will include a design and species that are compatible with the desert landscape.
- Long-term maintenance of on- and off-site improvements, including but not limited to, roadways, parking areas, landscape areas, detention basins, and drainage easements, will be guaranteed through the execution of a private maintenance agreement between the Yucca Valley Retail Center, the adjacent Home Depot Center, and other benefited property owners.

Figure 4-4
Landscape Plan Concept

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Plant Materials

The landscaping theme will enhance the overall Specific Plan's character. All landscape areas within the site will be planted with a combination of ground cover, shrubs and trees. Landscaped areas will also be top dressed with decomposed granite. Table 4-2 presents the proposed plant palette for Major 1.

Table 4-2 Proposed Plant Palette

Botanical Name	Common Name	Size	Approx. Quantity
TREES			
Relocated Yucca Brevifolia	Joshua Tree	N/A	65
Parkway Canopy Tree (40' height, 40' spread) Such as:		36" Box	25
Prosopis Chilensis	Chilean Mesquite		
Gleditsia Triacanthos	Honey Locust		
Parking Lot Shade Tree (20' height, 30' spread) Such as:		24" Box	200
Rhus Lancea	African Sumac		
Cercidum "Desert Museum"	Palo Verde		
Interior Driveway Tree (30' height, 20' spread) Such as:		24" Box	48
Eucalyptus Sideroxylon Rosea	Red Ironbark		
Koelreuteria Paniculata	Goldenrain Tree		
Parkway Flowering Tree (15' – 20' height, 20' spread) Such as:		24" Box	43
Lagerstroemia Indica	Crape Myrtle		
Chitalpa Tashkentensis	Pink Dawn		
Screening Tree (20' height, 20' spread) Such as:		24" Box	24
Pinus Halepensis	Aleppo Pine		
Vertical Accent Tree (60' – 100' height) Such as:		16' BTH	25
Washingtonia Robusta	Mexican Fan Palm		
SHRUBS/GROUNDCOVER			
Low to Medium Scale, Drought Resistant Shrubs and Groundcovers for Slopes – Drip Irrigation		1 Gallon	8,100
Acacia Redolens "Desert Carpet"	Prostrate Acacia		
Baccharis Pilularis "Centennial"	NCN		
Cotoneaster Species	Cotoneaster		
Dalea Pulchara	Bush Dalia		
Leucophyllum Frutescens "Compacta"	Texas Sage		

Table 4-2
Proposed Plant Palette

Salvia Greggii	Red Sage		
Rosmarinus Officinalis	Rosemary		
Low to Medium Scale, Drought Resistant Shrubs and Groundcovers – Drip Irrigation		1 Gallon	4,600
Buddleia Marrubifolia	Wooly Butterfly Bush		
Calliandra Eriophylla	Fairy Duster		
Dalea Greggii	Trailing Indigo Bush		
Leucophyllum Frutescens "Compacta"	Texas Sage		
Salvia Greggii	Red Sage		
Tecoma Alata	Orange Bells		
Senna Artemisioides	Feathery Senna		
Dasylirion Wheeleri	Desert Spoon		
Hesperaloe Pavifolia	Red Yucca		
Baccharis Pilularis "Centennial"	NCN		
Low Scale, Drought Resistant Interior Planter Shrubs and Groundcovers – Drip or Overhead Spray Irrigation		1 Gallon	2,900
Gazania Hybrids	Gazania		
Hemerocallis Hybrids	Daylily		
Mulhenbergia Capillaris	Pink Mulhy		
Mulhenbergia Rigens	Deer Grass		
Cotoneaster Horizontalis	Rock Cotoneaster		
Pennisetum Setaceum "Rubrum"	Purple Fountain Grass		
Lavandula Spp.	Lavender		
Leucophyllum Frutescens "Compacta"	Texas Sage		
Rosmarinus Officinalis	Rosemary		

N/A – Not Applicable

BTH – Brown Trunk Height

Native Plant Protection and Treatment Guidelines

The Yucca Valley Retail Center Specific Plan conforms with the Town of Yucca Valley Native Plant Protection and Management Ordinance (Ordinance No. 140). According to the Native Plant Survey (Appendix C) conducted for the project, Joshua trees and Mojave Yuccas are the only plant species listed in the Ordinance that occur within the Specific Plan area. A total of 129 Joshua trees and two (2) Mojave Yuccas occur on site. Some of these plants will be salvaged and replanted within the site. Remaining salvaged trees will be put up for adoption pursuant to the Ordinance and Town's

Joshua tree adoption program. Any plants indicated to be removed by this Specific Plan in conformance with the Native Plant Survey will be removed pursuant to Ordinance No. 140, concurrent with the grading permit for the project.

4.4 -WALLS AND FENCES

Walls and/or fences are permitted along the north, west, and south boundaries of the retail center. If installed, such walls or fences will be designed to provide security, while allowing for territorial views of the surrounding desert landscape and more distant hills. Walls/fences shall be constructed of block masonry, stone, or brick, as appropriate. Any wall adjacent to a public right of way, such as State Highway 62 or Palisade Drive, will be landscaped with a selection of trees, shrubs/hedges, and groundcover and is subject to review, approval, and permits issued by the Town of Yucca Valley and/or Caltrans.

A solid decorative masonry wall of minimum six (6) feet high and five (5) foot wide landscape buffer should be erected along all property lines separating the site from any parcel zoned for residential purposes, and along all alley property lines if the property opposite is zoned for residential purposes. The design of the wall and the proposed construction materials shall be subject to review and approval through the site plan review process.

4.5 - SIGNAGE AND LIGHTING

4.5.1 - Signage

All project Sign Plans submitted with a site development permit or individually, shall demonstrate compliance with the Master Sign Program required by Section 3.5, and incorporate the guidelines of this section. The following guidelines shall be applied:

- Materials to be used on Freestanding Signs (i.e., pylon and monument signs) shall be equal in characteristics with the materials used for the building front Façade.
- Tenant logos, corporate identities and/or images denoting the type of business and services shall be encouraged.

- Wall signs shall be affixed without visible means of attachment, unless attachments make an intentional design statement and are an integral part of the design.
- All conductors, conduits, tubing, crossovers, transformers, and other equipment for illumination of signs shall be concealed and/or incorporated into the building architecture.
- Signs should not cover up windows or important architectural features. K
- Directional Signage:
    - Direction signs may be located at any vehicular or pedestrian decision point.
    - Vehicular direction signs shall clearly direct to destination anchors, on-site parking areas and truck routes.
    - Typography on vehicular direction signs should be legible and have enough contrast to be read from an appropriate windshield viewing distance.
    - Vehicular direction signs shall incorporate reflective vinyl copy for night-time illumination.
- Lighting:
    - Signs with backlit, halo lit or internally illuminated individual channel letters are strongly encouraged.
    - To conserve energy, incorporate standard shutoff time for illuminated signs for businesses that do not operate at night.

4.5.2 - Lighting

The Yucca Valley Retail Center Specific Plan shall conform to the lighting standards of the Town of Yucca Valley. This includes measures to minimize light pollution, which has a detrimental effect on the environment and the enjoyment of the night sky, and measures such as shielding of parking area light fixtures to prevent nuisance spillover effects on surrounding properties.

A Lighting Plan (i.e., Photometric Plan) in conformance with the Town Outdoor Lighting and Night Sky Protection Ordinance (Ordinance No. 90) shall be prepared, to include parking areas and access way lights, external security lights, and lighted signage.

General Provisions for Lighting

- Parking areas and access ways - All lighting will be installed as required to conform with the Town's Outdoor Lighting Plan and Night Sky Protection Ordinance - Illuminated with free-standing light standards with metal halide fixtures. The Yucca Valley Retail Site has been designed with 42-foot pole heights (39 feet on a 3-foot base). The site will utilize Full Cut Off Light Fixtures and Shielded Fixtures around the perimeter of the site, to comply with the Town's Outdoor Lighting and Night Sky Protection Ordinance.

- Signage lighting - In conformance with signage specifications and standards.

- Security lighting - For the major anchor, wall-mounted light fixtures will be located along the rear and side elevation walls, including the rear loading dock. Security lighting will be set on a timer to run from dusk to dawn every day.

SECTION 5:
INFRASTRUCTURE, UTILITIES, AND PUBLIC SERVICES

SECTION 5:
INFRASTRUCTURE, UTILITIES, AND PUBLIC SERVICES

Infrastructure and services to support the Yucca Valley Retail Center shall be extended and improved in conjunction with its phased development. Primary infrastructure facilities are described below.

5.1 - CIRCULATION

The project site's primary access will be from a signalized driveway on Highway 62. This driveway will be a shared access with the Home Depot Retail Center located immediately east of the project. Additional project access will be located on the north- south oriented Avalon Avenue, with truck delivery access provided from Palisade Drive.

In support of the project, a traffic signal has been installed at the project's main entrance, at Twentynine Palms Highway. Avalon Avenue will be widened to its ultimate width. The north side of Palisade Drive has been improved to its ultimate width along the southern boundary of the project site. The roadway was constructed as part of The Home Depot Retail Center, but will be jointly funded by both retail center projects.

Parking requirements for the project are based on the Town of Yucca Valley's parking requirements. The Town requires retail shopping centers to provide four (4) parking spaces for each 1,000 square feet of building area. Major 1 provides for 184,146 square feet of retail space, and as such, the minimum parking requirement is 737 parking spaces. The project will provide 785 parking spaces for this use, thus exceeding the requirement. Additional parking required for the fast-food restaurant and retail pads would be provided in compliance with Town requirements. The project will provide a total of 54 parking spaces for these uses, thus exceeding the requirement of 29 spaces.

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5.2 - DRAINAGE

On-site drainage will be captured via a series of catch basins and transported via underground pipes to the retention basin proposed on the northern perimeter of the site.

The retention area straddles the northern boundary of the site and will retain onsite flows to pre-development discharges. The basin will be designed so that post- development water released will be equal to pre-development conditions. This will allow the surface water flows from the site to drain to the existing storm drain facilities within State Highway 62.

5.3 - WATER

Public water service is provided by High Desert Water District. Water service to the plan area will be provided with a connection to the 12" public water line in Avalon Avenue, and the extension of a public water line along the alignment of Palisade Drive and northerly onto the project site near the westerly property line to serve both the major retail and the outparcels. These extensions will be constructed by the project and dedicated to the Water District. There will be private water lines within the site to provide service to the major retail and outparcel buildings.

5.4 - WASTEWATER

Currently, the Town of Yucca Valley does not provide sewer treatment to any portion of the Town, therefore, requiring development projects to provide and maintain their own private system.

The anticipated combined average flow from the project site is approximately 9,620 GPD with 6,120 GPD from the Wal-Mart building, and an additional 3,500 GPD estimated for the outparcel buildings. The Town of Yucca Valley, Community

Development Department has, in conjunction with the State RWQCB, set a mandated maximum of 5,000 GPD per development for "Local Agency approval" for any proposed sewer treatment system. Flows exceeding that amount require both San Bernardino County Health Department and the State RWQCB approvals.

Project-generated effluent will be handled by an on-site secondary effluent treatment system that includes nitrogen removal. The package sewer treatment plant will be constructed under the easterly portion of the parking lot. The plant will have sufficient capacity to accommodate the projected wastewater flows anticipated to be generated by the project. After treatment, the wastewater effluent will be discharged into five (5) seepage pits located below the parking lot. The effluent will then naturally percolate back into the ground. Please refer also to Figure 5-1, "Sewer Plan."

5.5 - DRY UTILITIES

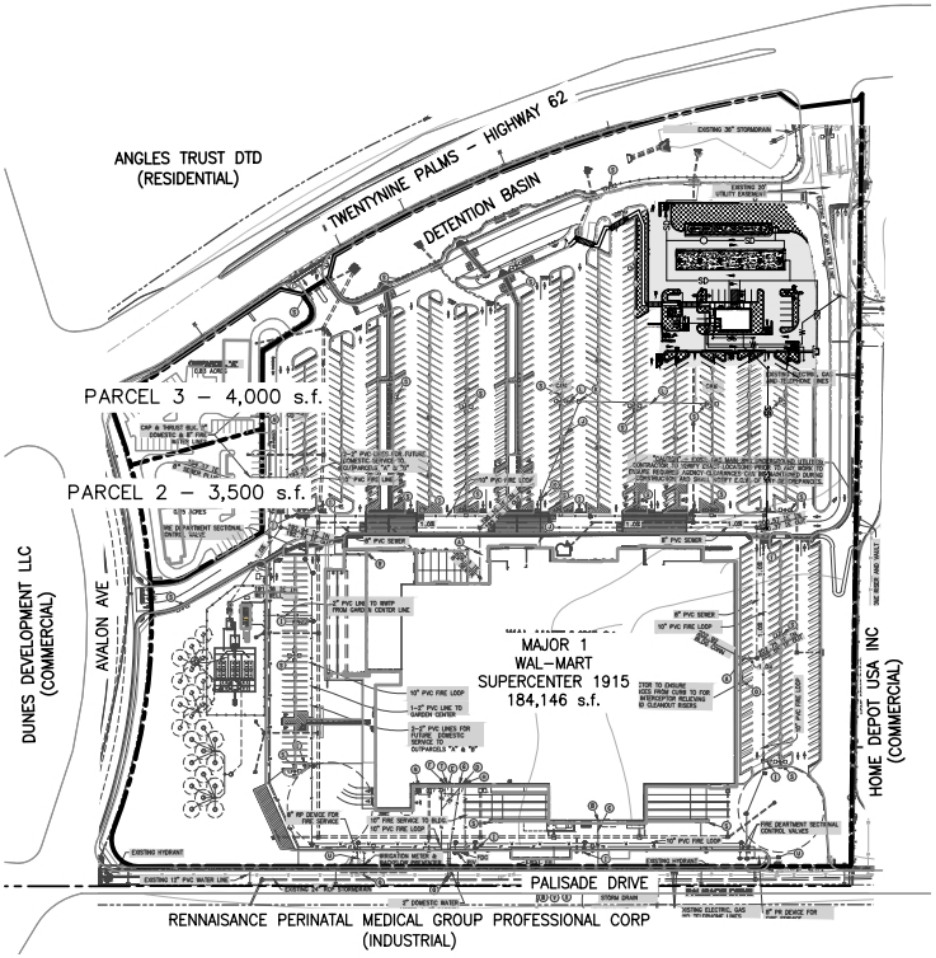
The Yucca Valley Retail Center lies within the service areas of Southern California Edison (electricity), Southern California Gas Company (natural gas), and Verizon (telephone). The utility network will be expanded to meet the future demands of the project. Electric, gas and telephone service lines will be extended from State Highway 62 within a joint trench along the western site boundary. The specific design and sizing requirements of necessary improvements and/or additions will be determined as part of the Town and utility provider's processing and permitting procedures.

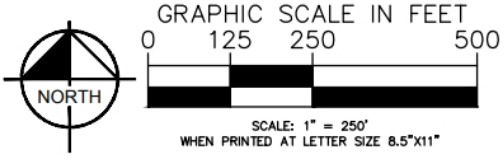
5.6 - GENERAL INFRASTRUCTURE AND SERVICE REQUIREMENTS

5.6.1 Any offsite installation of curbs, sidewalks, street and driveway paving, and street lighting as may be required by the Town shall be subject to the provisions of the Town's Standard Improvement Plans.

5.6.2 All onsite water supply, wastewater collection, storm drainage lines and facilities shall be provided by the developer.

58501 TWENTY NINE PALMS HWY., YUCCA VALLEY, CA 92284
OVERALL UTILITY PLAN





5.6.3 All utility lines serving the project area shall be placed underground by the developer as a condition of approval.

5.6.4 Adequate water for estimated domestic consumption and for fire flow requirements, as determined by San Bernardino County Fire Department, shall be provided by the developer.

5.6.5 Development of the project area shall comply with all requirements of the San Bernardino County Fire Department in providing adequate fire flow, number and location of hydrants, building clearances, and street and driveway/aisle turning radii for access.

5.6.6 The developer shall review with the Police Department the nature and design of the development, and types of security measures to be implemented.

SECTION 6:
IMPLEMENTATION AND ADMINISTRATION

SECTION 6:
IMPLEMENTATION AND ADMINISTRATION

6.1 - FINANCING AND PHASING OF DEVELOPMENT

The Yucca Valley Retail Center is a self-supporting commercial project with individual owners/developers responsible for on and offsite improvements necessary to support development of the project. Development of the plan area will occur in two phases, generally as follows:

Phase 1:

- Rough Grading of the entire 25-acre site and building pads
- Precise grading of Parcel 1 and driveways onto State Highway 62 and Palisade Drive
- Detention basin/drainage improvements (onsite and offsite)
- Installation of onsite sewage treatment system
- Provision of dry utilities (gas, electric, telephone)
- Access from State Highway 62 (Driveways)
- Construction of the major retail, and required parking area
- Construction of secondary drives onto State Highway 62 and Palisade Drive
- Landscape (Parcel 1, State Highway 62 frontage, State Highway 62 entry corners, drives along Avalon Avenue and Palisade Drive)
- Palisade Drive extension and improvements funded according to Section 1.3
- Off-Site Improvements (as detailed in Section 1.0, "Plan Overview")

Phase 2:

- Precise Grading and pad preparation for outparcel buildings (Parcel 2 and 3)
- Construction of outparcel buildings (Parcel 2 and 3)
- Wet and dry utility connection (Parcel 2 and 3)
- Landscape (remainder parking area and corners in Parcel 2 and 3)
- On-site septic system to serve outparcel buildings

Phase 3:

- Construction of fuel station and convenience store

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6.2 - APPLICATION PROCESSING

Following is a summary of the application requirements for the Yucca Valley Retail Center Specific Plan and individual projects within the Specific Plan. This section summarizes the processing procedures and is not intended to replace the Development Code or other ordinance requirements of the Town of Yucca Valley except where noted herein.

The Town of Yucca Valley has adopted and amended the County of San Bernardino's Development Code (Articles 1-6) General Procedures. The Development Code uses five procedures to review all types of development applications: Public Hearing, Design Review, Administrative Review, Staff Review with Notice, and Staff Review without Notice.

Overview of Applications and Meeting Requirements

Approval of a Specific Plan, Conditional Use Permits (CUPs) (if needed), Site Plan, and Subdivisions each require a discretionary action at public hearings before the Planning Commission and Yucca Valley Town Council. Applications are first reviewed by Staff. Then they are set for review by the Development Review Committee (DRC) and, in some cases, forwarded to the Traffic Advisory Committee (TAC). The recommendations of the DRC and TAC are forwarded to the Planning Commission, which provides a recommendation to the Town Council. Applications for Specific Plan, CUP and Site Plans can be considered concurrently; however, separate and distinct development applications must be made and the appropriate fees paid for each type of action requested. In addition, an Environmental Application must be made with each project.

Specific Plan

Ordinance 87 (February 19, 1998, Yucca Valley Town Council) established Article 13 for Specific Plans in the Town of Yucca Valley. The purposes of this ordinance are:

- To facilitate implementation of the General Plan by establishing procedures for adoption, maintenance and administration of Specific Plans per Sections 65450, et seq., of the California Government Code; and,

- To provide a framework for future development which encourages flexibility and creativity in design, efficient use of resources, infrastructure planning, conservation of open space, and development of various types of housing and living environments for the Town of Yucca Valley.

Where a Specific Plan is not consistent with the General Plan, appropriate General Plan amendments must be considered concurrently with the Specific Plan.

An adopted specific plan supersedes the town zoning, as shown on the Zoning District Map and in the Town Zoning Ordinance (Ordinance No. 79), for the site area included in the proposed land use plan of the Specific Plan.

All other provisions of the Town Development Code, which are applicable to the site, shall apply unless identified in the Specific Plan.

Division of Land Procedures (Subdivision Map Act)

Implementation of the Specific Plan would require the subdivision of land with a Parcel Map pursuant to California Government Code, Title 7, Division 2, Subdivision Map Act, and Chapter 4 of the Town of Yucca Valley Development Code. When the subdivision of land is associated with the Specific Plan, a public hearing is required for the approval of subdivisions.

Site Plan Review (Article 12): Individual projects may be considered under Town Site Plan Review procedures if they are in conformance with the appropriate criteria of the Specific Plan. Staff determines whether Site Plan Review is appropriate during the Pre-Application process. A Site Plan Review Application is submitted with a letter of explanation for the proposed uses. The application is accompanied by the site plan and appropriate fees. Site Plan Review applications must be reviewed and approved by the Planning Commission. The recommendations of the Development Review Committee and, if appropriate, the Traffic Advisory Committee will be forwarded to the Planning Commission for their consideration.

Conditional Use Permit (Article 1): A Conditional Use Permit (CUP) is required for specific uses listed in the land use districts of the Development Code. A CUP may be needed for new development and/or expansion, alteration and/or disturbance of land associated with an existing commercial, industrial, institutional or multiple residential site pursuant to the criteria of the Development Code. Additionally, the conversion of non-conforming land uses is subject to CUP requirements. A CUP is required for Specific Plan uses listed in Section 3.2.3 herein. The Town Staff would determine the need for a Conditional Use Permit during the Pre-Application process. All CUPs and amendments to CUPs shall be subject to approval by the Planning Commission.

Temporary Uses: The Development Code allows for temporary or seasonal uses subject to review and approval of the Planning Director. These types of uses require a Temporary Use Permit Application to be submitted to the Community Development Department along with a site plan and application fees.

Exterior Modifications: Alterations to the exterior of any structure approved under CUP 02-04 shall require an amendment to the CUP and approval by the Planning Commission.

Appeals: Appeals can be made to the Town Council within ten days of any action. An Appeal Application must be submitted to the Community Development Department with the applicable fees.

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6.3 - SPECIFIC PLAN AMENDMENTS

The Town of Yucca Valley Community Development Director shall be responsible for administering the provisions of this Specific Plan in accordance with the provisions of the State of California Government Code, Subdivision Map Act, and the Town of Yucca Valley General Plan and Development Code.

The Specific Plan may be amended per Section 9.70.120 of the Development Code (Specific Plan Amendment).

Minor Amendments

Minor amendments include simple modifications to text or graphics that do not change the meaning, intent, or are contrary to any provision of the Specific Plan. Minor modifications may be accomplished administratively by the Director of Community Development and are appealable to the Planning Commission and Town Council.

Major Amendments

Major modifications are amendments to exhibits or text that are intended to change the intent, development standards or other significant provisions of the Specific Plan. Major modifications require a Specific Plan Amendment and approval by the Planning Commission and Town Council in accordance with requirements of Chapter 9.83 of the Development Code (Permit Amendments).

Interpretations

Interpretations of the provisions of this Specific Plan are subject to Chapter 9.83 of the Development Code, except as follows:

- When there is a question or ambiguity regarding the interpretation of any provision of this Specific Plan, the Director of Community Development has the authority to interpret the intent of such provision.

- The Director of Community Development may, at his/her discretion, refer interpretations to the Planning Commission for its consideration and action. Such a referral shall be accompanied by a written analysis of issues related to the interpretation.

- All interpretations made by the Director of Community Development may be appealed to the Planning Commission in accordance with the appeal procedures set forth in the Development Code.

APPENDICES

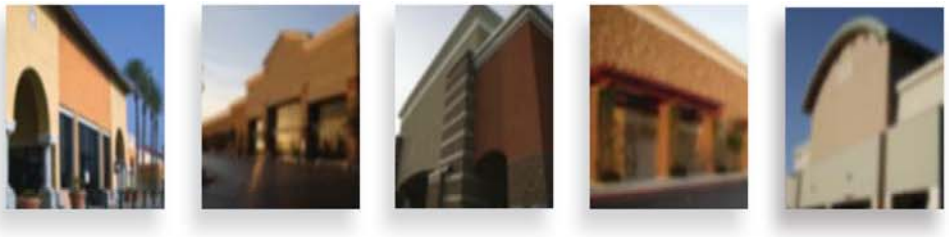
APPENDIX A:
LEGAL DESCRIPTION

APPENDIX B:
GENERAL PLAN CONSISTENCY

APPENDIX C:
NATIVE PLANT SURVEY

APPENDIX D:
COMPREHENSIVE SIGN PROGRAM

APPENDIX E:
CONDITIONS OF APPROVAL



WAL-MART MASTER SIGN PROGRAM

Store No. 1915-04: Yucca Valley, CA
February 26, 2008

Amendments
Amendment No. 1 - April 4, 2011
Amendment No. 2 – November 16, 2021
Amendment No. 3 - Month Day, 2026

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Installation Details	17

www.wp2dc.com

PROJECT DIRECTORY

Signage Architect:	WPIIDC, Inc.
Civil Engineer:	Kimley-Horn and Associates

PURPOSE AND INTENT

To promote the quality of design desired for this Wal-Mart, this Sign Program establishes criteria for the design, implementation and regulation of Wal-Mart signage, as well as site or thematic graphics for the Wal-Mart located in Yucca Valley, California. Signage of high-quality design and materials using appropriate colors is considered an integral part of the image and success of this Wal-Mart.

Wal-Mart may utilize any or all the sign types described herein. All signage shall comply with applicable provisions of the Zoning Ordinance and land use plans of the Town of Yucca Valley. All building and site signage shall be consistent with this Sign Program to provide a consistent and comprehensive design character.

The intent of this Sign Program is to ensure that signage for Wal-Mart is designed and executed in a manner which will achieve the following objectives while providing desired project identification.

Exterior Signing
The objectives of exterior signage are:

- To provide concise identity and information for shoppers and prospective shoppers while avoiding visual competition with the building's aesthetic or the site landscaping.
- To produce creative signage in good taste that will enhance Wal-Mart's image while complementing the architectural and landscape design theme.
- To provide functional signage to effectively serve the needs of consumers while providing proper identification of Wal-Mart.
- To expedite the review and approval of Wal-Mart's signage by providing guidelines and criteria that explain acceptable standards for the signage.

RESTRICTIONS

The following are prohibited, along with restrictions described in Section 87.0780 PROHIBITED SIGNS of the Town of Yucca Valley's Sign Regulations:

- Abandoned signs and supporting structures
- Chalkboards or blackboards
- Permanent sale or come-on signs
- Portable signs (except A-frame)
- Roof signs
- Signs painted on fences or roofs
- Large balloons or other large inflatable devices
- Signs that are affixed to vehicles purposely parked and serve as advertisement device.
- Signs which simulate in color or design a traffic sign or signal, or which make use of words, symbols or characters in such a manner to interfere with, mislead, or confuse pedestrian or vehicular traffic
- Signs which incorporate in any manner any flashing, moving, or intermittent lighting
- Animated or moving signs or signs which contain any moving parts
- Banners and Flags (See Section 87.0130 Temporary Signs for exceptions)

GENERAL PROVISIONS AND SPECIFICATIONS

The Town of Yucca Valley Planning Department shall administer the project Sign Program. Sign permit applications and instructions concerning required exhibits are available from the Town of Yucca Valley. No sign shall be installed without the approval of the Town of Yucca Valley Planning Department.

- Tenant signs shall be of high graphic quality but also designed in a creative manner that is compatible with and complementary to the surrounding facades. Sign fabrication work shall be of excellent quality.

- Tenant logos, corporate identities and/or images denoting the type of business and services shall be encouraged. The sign copy, color, size and design shall be in accordance with this document and approved by the Town of Yucca Valley, except in the case of tenants whose design, colors, size and sign criteria are part of a nationally recognized image.

- Wall signs shall be affixed without visible means of attachment, unless attachments make an intentional design statement and are an integral part of the design.

- The tenant's sign contractor shall repair any damage to the building caused by their work. Damage to the structure that is not repaired by the sign contractor shall become the tenant's responsibility to correct. The tenant shall be fully responsible for the work of the tenant's sign contractor and shall indemnify, defend and hold the Owner harmless from damages or liabilities.

CONSTRUCTION SPECIFICATIONS & MISCELLANEOUS REQUIREMENTS

- All tenant identification signs shall consist of face-illuminated individual dimensional letter forms and/or symbols (or an assembly of dimensional letter forms if the tenant's logotype is script-style letters). All letter/symbol faces shall be translucent acrylic with integral color. Secondary identification signs shall consist of non-illuminated individual dimensional letter forms and/or symbols.

- The cabinet and/or channel letters shall be constructed of 0.060 - 0.090 aluminum, with 1/8" plastic face and fastened to the wall or fascia in an approved manner. All metal shall receive a minimum of two (2) coats of primer and two (2) coats of finish paint. Metal sheet seam joints shall be joined by pop rivets. Halo lighting and or neon need secondary ground fault consistent with UL2161. All letters shall have service access to lamps, ballasts and wiring.

- For each outparcel tenant, a total of four (4) building signs per building frontage oriented towards a street, driveway, or parking area, based on a maximum of one (1) square foot of sign area per one (1) lineal foot of use or occupancy.

- All fascia signs shall be centered left to right on the fascia or tenant frontage, and generally centered top and bottom between fascia reveals (the vertical position will vary depending on the configuration of the sign and the locations of the reveals on the sign fascia). Proposed sign locations for tenant logotypes and/or symbols with unusual configurations shall be submitted to the Town of Yucca Valley and Developer/Owner for review prior to filing an application with the municipality.

- Power will be provided from the house electrical panel to a junction box at all sign locations. Power connection is the tenant's responsibility. A time clock shall be provided by the tenant to turn off power to the signs. All electrical signs shall bear the UL Label (not visible to the public view) and their installation shall comply with all local building and electrical codes. The tenant shall pay for electrical service for the sign. All conductors, transformers and other equipment shall be concealed.

- All penetrations of the building structure required for sign installation shall be neatly sealed in a watertight condition. All bolts, fastenings, clips, etc., shall be painted to match the adjacent surface.

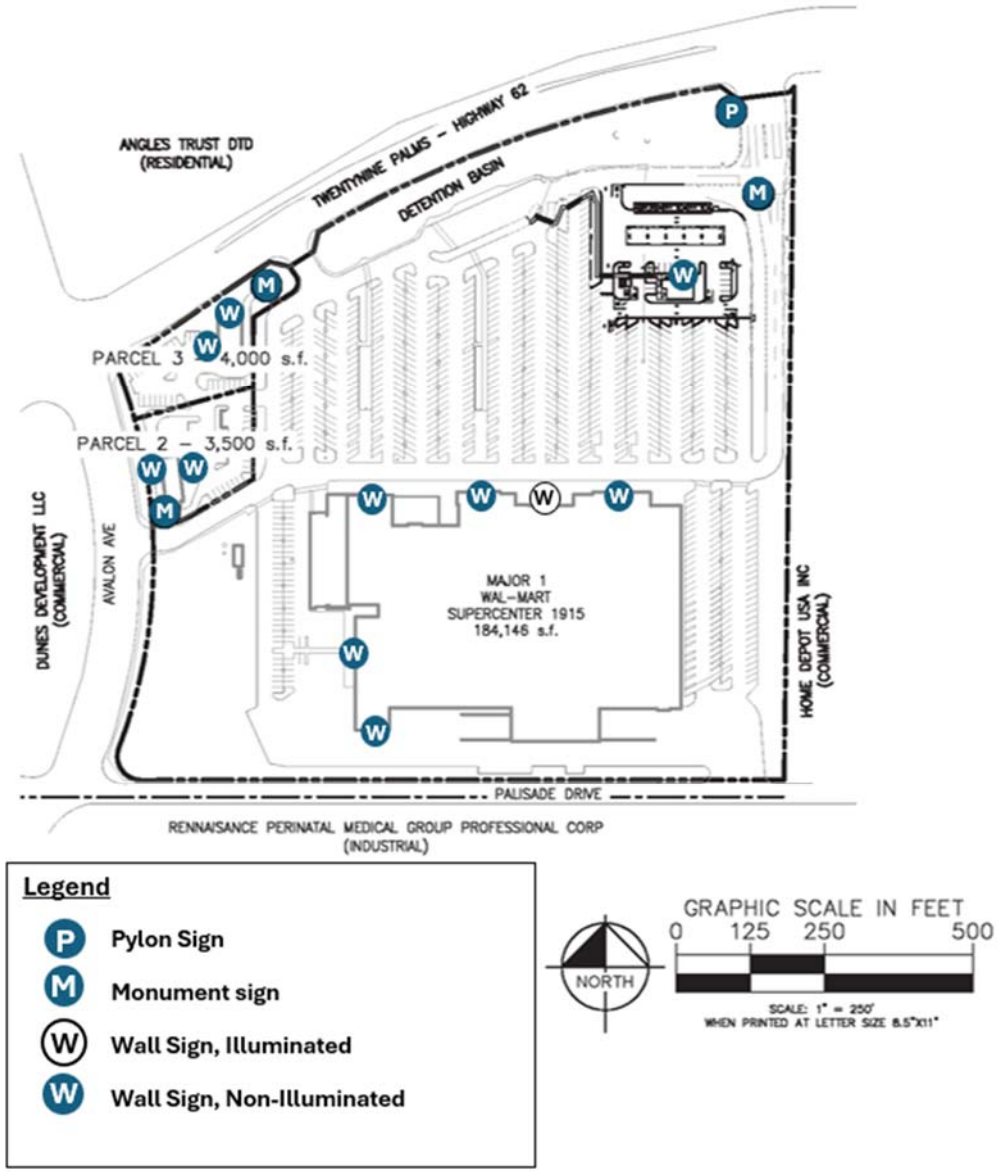
- All lettering shall be restrictive to the "net sign area." No projection above or below the "net sign area" will be permitted (except as otherwise noted and / or approved in writing).

- When a sign is removed, either for replacement or on termination of the lease, the tenant shall leave the building exterior in good condition, normal wear and tear excepted. Any holes caused by the removal of the tenant's sign(s) shall be repaired and painted to match the adjacent surface. It is the responsibility of the tenant to ensure that all signs are removed from a tenant space within ten (10) days of vacating the space.

- The tenant is required to maintain their signs in a first class condition and replace defective lights and/or components as necessary.

- Contractors installing signs shall be registered by the State of California, and must have a current Town of Yucca Valley business license. All work shall be done in accordance with the Town of Yucca Valley minimum standards. Each contractor must have valid and current Workman's Compensation Insurance.

WAL★MART



SITE PLAN – MONUMENT AND SIGN LOCATION

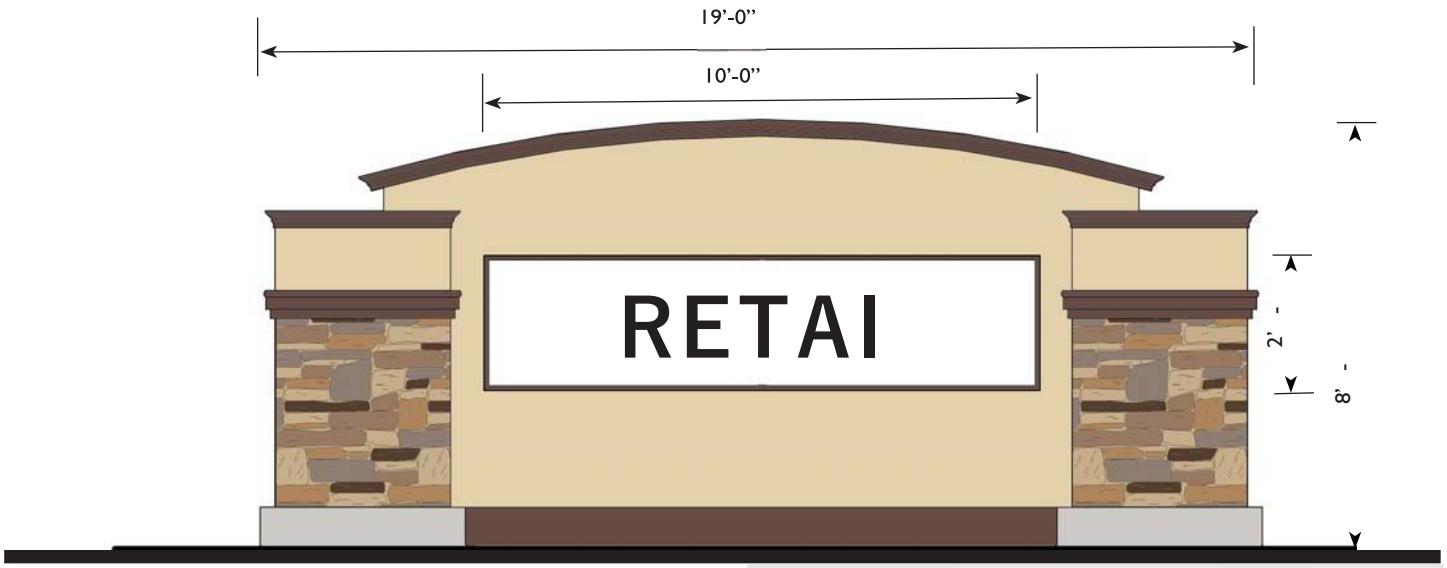
SITE SIGNAGE
Pylon Sign
WAL★MART

Sign Area Per Side: 100.00 SF

* Materials to be used on this monument sign are to be equal in characteristics with the materials used for the building facade.

SITE SIGNAGE
Monument Tenant Sign

WAL★MART



Sign Area Per Side: 25.00 SF

* Materials to be used on this monument sign are to be equal in characteristics with the materials used for the building facade.

NORTH ELEVATION

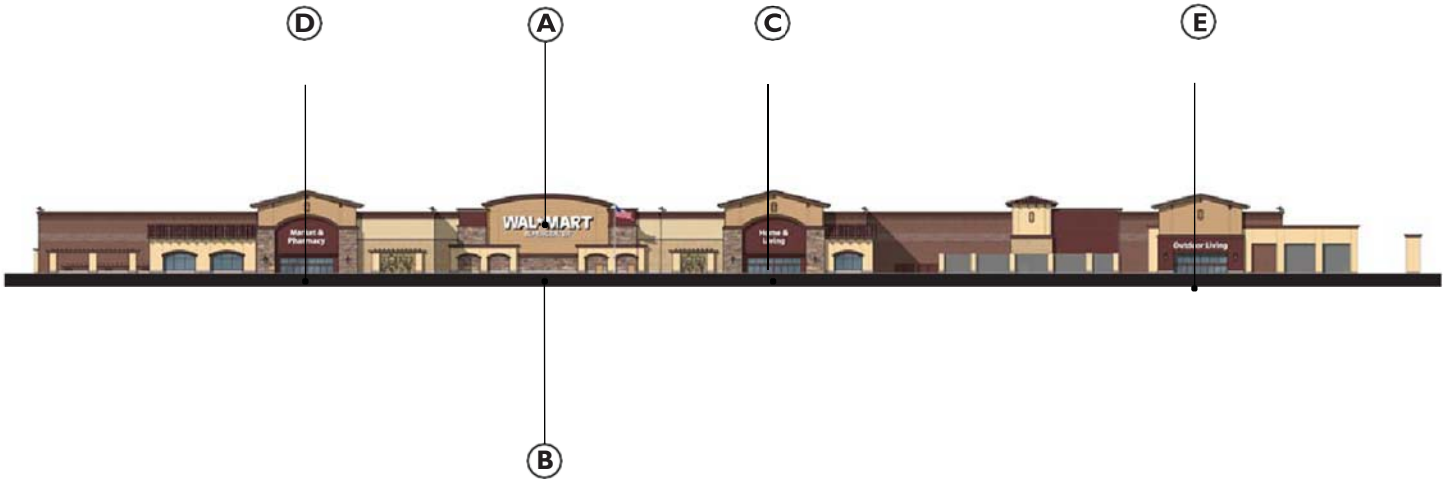
WAL★MART

ILLUMINATED SIGN:

Configuration: Channel letters with vacuum formed face (pan-formed) anchored to building surface (concrete block or plaster). Internally illuminated with LED.
Face: Constructed with Sunguard Weatherable Polycarbonate
Color: White
Mounting: Anchor bolt/bracket - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 anchors per sign.

NON-ILLUMINATED SIGN:

Configuration: Plexiglas formed letters stud mounted to building surface (concrete block or plaster).
Face: Constructed with Sta-Tuf Plastic
Color: White
Mounting: Threaded stud - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 studs per sign.



	SIGN	#	TYPE	DIMENSIONS	ILLUMINATION	SQ. FT.
A	Walmart	1	Business	7'-0" x 38'-0"	Channel lit	229.00
B	Supercenter	1	Business	2'-0" x 19'-6"	N/A	39.00
C	Home & Living	1	Directional	7'-1" x 12'-10 1/8"	N/A	90.93
D	Market & Pharmacy	1	Directional	7'-1 1/2" x 16'-5 5/8"	N/A	117.30
E	Outdoor Living	1	Directional	2'-6" x 23'-11 1/2"	N/A	79.57

Sign Area Sub-Total:	**555.80**
Total Building Signage Area:	**560.57**

WEST ELEVATION
WAL★MART

ILLUMINATED SIGN:

Configuration: Channel letters with vacuum formed face (pan-formed) anchored to building surface (concrete block or plaster). Internally illuminated with LED.
Face: Constructed with Sunguard Weatherable Polycarbonate
Color: White
Mounting: Anchor bolt/bracket - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 anchors per sign.

NON-ILLUMINATED SIGN:

Configuration: Plexiglas formed letters stud mounted to building surface.
Face: Constructed with Sta-Tuf Plastic
Color: White
Mounting: Threaded stud - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 studs per sign.

	SIGN	#	TYPE	DIMENSIONS	ILLUMINATION	SQ. FT.
F	Tire & Lube	1	Additional	2'-0" x 14'-8 3/4"	N/A	31.71
G	Tire	2	Additional	1'-0" x 2'-5 3/4"	N/A	5.34
H	Lube	1	Additional	1'-0" x 3'-1 5/8"	N/A	3.36

Sign Area Sub-Total:	**40.41**
Total Building Signage Area:	**560.57**

EAST ELEVATION

WAL★MART

ILLUMINATED SIGN:

Configuration: Channel letters with vacuum formed face (pan-formed) anchored to building surface (concrete block or plaster). Internally illuminated with LED.
Face: Constructed with Sunguard Weatherable Polycarbonate
Color: White
Mounting: Anchor bolt/bracket - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 anchors per sign.

NON-ILLUMINATED SIGN:

Configuration: Plexiglas formed letters stud mounted to building surface.
Face: Constructed with Sta-Tuf Plastic
Color: White
Mounting: Threaded stud - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 studs per sign.

NO SIGNAGE ON THIS ELEVATION

Sign Area Sub-Total:	**0.00**
Total Building Signage Area:	**560.57**

SOUTH ELEVATION
WAL★MART

ILLUMINATED SIGN:

Configuration: Channel letters with vacuum formed face (pan-formed) anchored to building surface (concrete block or plaster). Internally illuminated with LED.
Face: Constructed with Sunguard Weatherable Polycarbonate
Color: White
Mounting: Anchor bolt/bracket - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 anchors per sign.

NON-ILLUMINATED SIGN:

Configuration: Plexiglas formed letters stud mounted to building surface.
Face: Constructed with Sta-Tuf Plastic
Color: White
Mounting: Threaded stud - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 studs per sign.

NO SIGNAGE ON THIS ELEVATION

Sign Area Sub-Total:	**0.00**
Total Building Signage Area:	**560.57**

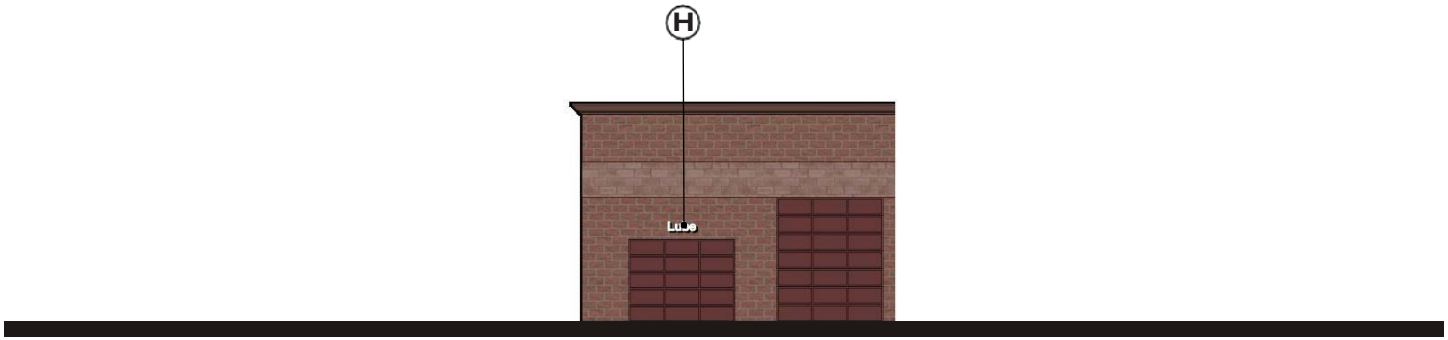
DETAIL ELEVATIONS
WAL★MART

ILLUMINATED SIGN:

Configuration: Channel letters with vacuum formed face (pan-formed) anchored to building surface (concrete block or plaster). Internally illuminated with LED.
Face: Constructed with Sunguard Weatherable Polycarbonate
Color: White
Mounting: Anchor bolt/bracket - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 anchors per sign.

NON-ILLUMINATED SIGN:

Configuration: Plexiglas formed letters stud mounted to building surface.
Face: Constructed with Sta-Tuf Plastic
Color: White
Mounting: Threaded stud - size to be submitted to jurisdiction for approval prior to installation. Minimum 3 studs per sign.



Rear TLE Elevation

	SIGN	#	TYPE	DIMENSIONS	ILLUMINATION	SQ. FT.
H	Lube	1	Additional	1'-0" x 3'-1 5/8"	N/A	3.36

Sign Area Sub-Total:	**3.36**
Total Building Signage Area:	**560.57**

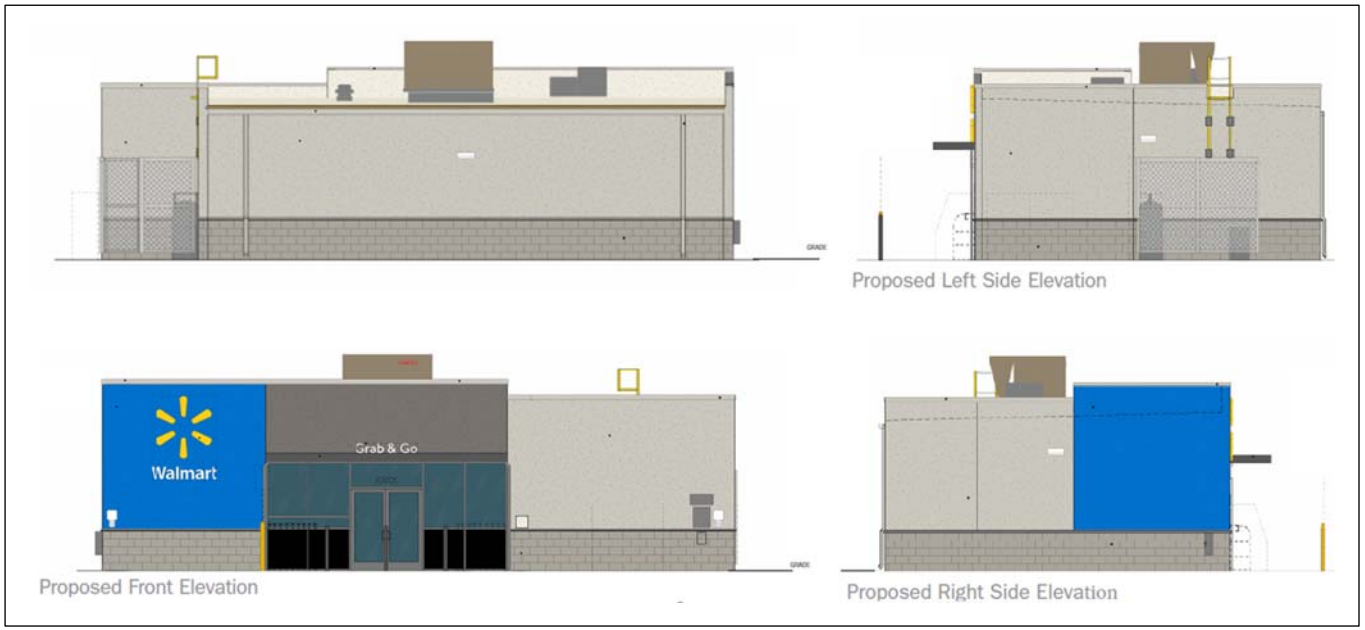
CONCEPTUAL
OUTPARCEL
ELEVATIONS

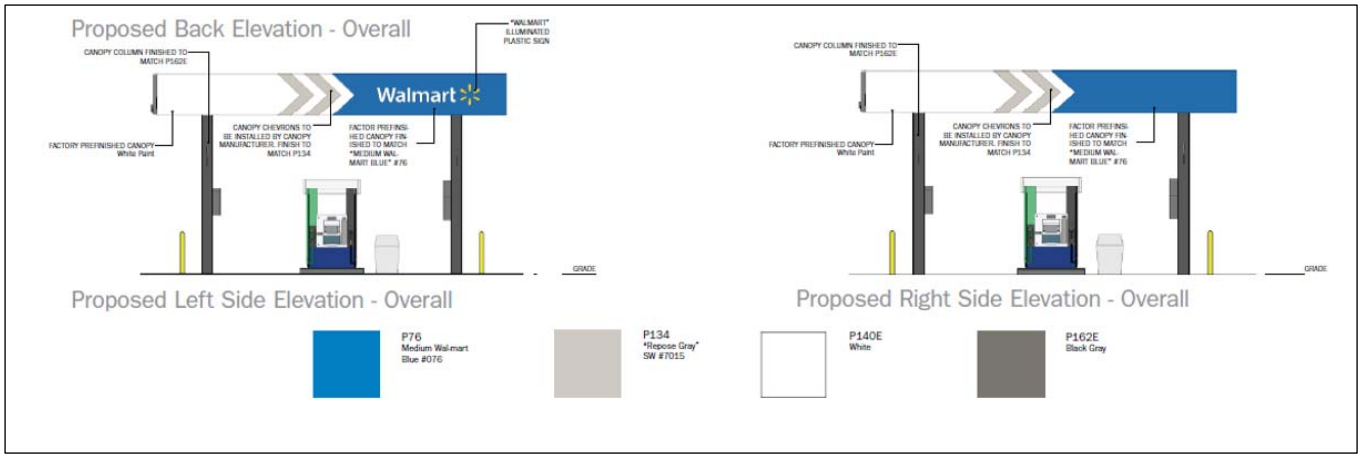
WAL★MART

Maximum square footage is One-SF per each linear foot of building frontage.

CONCEPTUAL CONVENIENCE STORE AND FUEL STATION ELEVATIONS

WAL★MART





Maximum square footage is One-SF per each linear foot of building frontage.

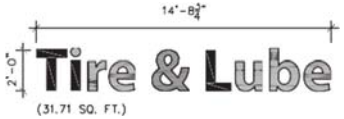
SIGNAGE DETAILS
WAL★MART

Sign A/ Sign B

Sign C

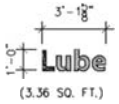
Sign D

Sign E



Sign F

Sign G

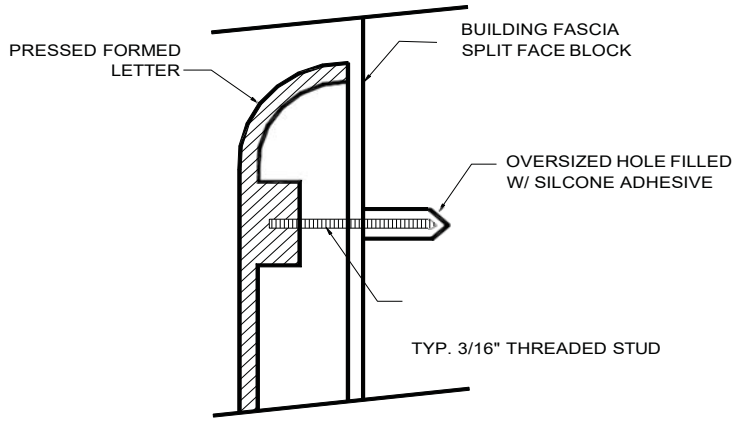


Sign H

INSTALLATION DETAILS

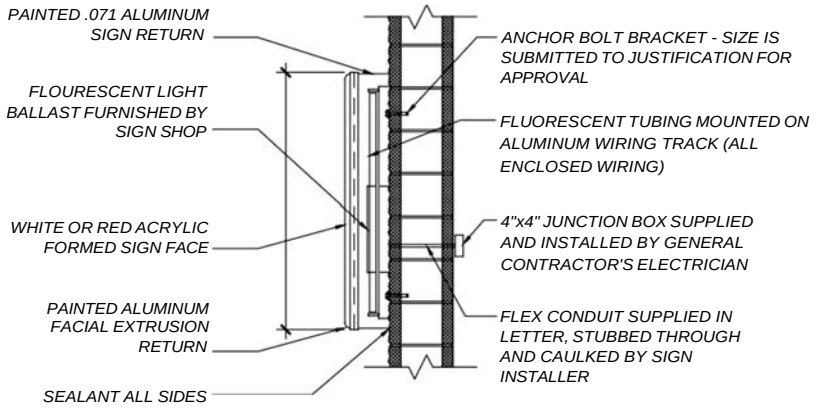
WAL★MART

Non-Illuminated Signage Detail



NTS

Illuminated Signage Detail



NTS

NOTE: Wal-Mart reserves the right to replace fluorescent tubing with LED.

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Town of Yucca Valley

WALMART FUEL STATION PROJECT

January 2026 | EIR Addendum

PLACEWORKS

January 2026 | EIR Addendum

WALMART FUEL STATION PROJECT

for Town of Yucca Valley

Prepared for:

Town of Yucca Valley
Contact: Jared Jerome
58928 Business Center Drive
Yucca Valley, California 92284
Tel: (760) 369-6579 ext. 317

Prepared by:

PlaceWorks
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714.966.9220
www.placeworks.com

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ENVIRONMENTAL CHECKLIST/

PROJECT INFORMATION

Project Title: Walmart Fuel Station Project

Lead Agency Name and Address:
Town of Yucca Valley
Community Development Department
58928 Business Center Drive
Yucca Valley, California 92284

Contact Person and Phone Number:
Jared Jerome, Associate Planner
Tel: (760) 369-6579 ext. 317

Project Location: 58501 Twentynine Palms Highway (State Route 62) (Assessor's Parcel Number [APN] 0601-201-54) in the Town of Yucca Valley, San Bernardino County. The approximately 1.32-acre project site is in the northeastern portion of the existing Walmart Supercenter, south of State Route 62 and east of Avalon Avenue. The project site is paved and has ornamental landscaping.

Project Sponsor's Name and Address:
Walmart Stores Inc.
702 SW 8th Street
Bentonville, Arkansas 72716

General Plan Designation: Commercial (C)

Zoning: General Commercial under the Yucca Valley Retail Specific Plan

Description of Project:
The proposed project is a new fuel station in the existing Walmart Supercenter parking lot. The fuel station would include six fuel dispensers beneath a canopy and a 1,556-square-foot convenience store, which would include alcohol sales and an air station for vehicle tire inflation. Three underground storage tanks (UST) would be installed on the site: one 20,000-gallon

gasoline tank, one 20,000-gallon split gasoline tank,[1] and one 20,000-gallon diesel tank. Utilities, including the fuel tanks, would be underground in compliance with applicable regulations, which would require excavation up to 25 feet below grade. A total of 135 parking spaces would be removed, but 15 spaces would be installed at the convenience store. A total of 771 parking spaces (inclusive of the 15 spaces at the fuel station/convenience store) would be available for the Walmart Supercenter, which is 28 more spaces than required by the Town of Yucca Valley (Town). The proposed project would include new drive aisles for internal circulation and new landscaped areas within the parking lot (including a new landscaped median along the west side of the project site), and it would re-landscape an existing landscape median on the north side of the project site. A new pedestrian walkway would connect the project site to the existing bus stop.

Surrounding Land Uses and Setting:
The project site, within the Walmart Supercenter, is bordered by a drive aisle and a landscaped median to the north and east and by parking to the south and west. The Walmart Supercenter is surrounded by a mix of commercial and retail uses along State Route 62 (SR-62), including restaurants, shops and service-oriented businesses. Residential neighborhoods are further north of the project site and north of SR-62, and undeveloped land is beyond the commercial center to the east and south. The closest residential uses are 0.12 mile north of the project site. The project site is approximately 10 miles west of the City of Twentynine Palms, 15 miles northeast of the City of Desert Hot Springs, and 17 miles northeast of the City of Palm Springs. Joshua Tree National Park is to the south and southeast of the Town. The project site is within the Yucca Valley North USGS Quadrangle.

Discretionary Actions:
The Town of Yucca Valley is the lead agency under CEQA and has primary responsibility for reviewing and approving the proposed project. Discretionary approvals required from the Town include: (1) Approval of a Specific Plan Amendment to include the proposed project (i.e. a fuel station) in the Yucca Valley Retail Specific Plan and (2) Approval of a Conditional Use Permit (CUP) for the construction and operation of a fuel station and associated convenience store, pursuant to Dev. Code 9.06.030(A)(1)(b).

Other Public Agencies Whose Approval Is Required (e.g., Permits, Financing Approval, or Participating Agreement):

- **San Bernardino County Department of Environmental Health.** Issuance of permits related to USTs for fuel storage and compliance with applicable health and safety regulations.
- **Colorado River Basin Regional Water Quality Control Board (Region 7).** Compliance with water quality regulations, including coverage under the State Water Resources Control

[1] The 20,000-gallon split gasoline tank would hold 12,000 gallons of regular gasoline and 8,000 gallons of premium gasoline, respectively.

Board's Phase II Small Municipal Separate Storm Sewer System (MS4) General Permit and Construction General Permit.

- **Mojave Desert Air Quality Management District.** Issuance of a permit to operate the fuel dispensing facilities and associated equipment for stationary emission sources.

Have California Native American tribes traditionally and culturally affiliated with the project area requested consultation pursuant to Public Resources Code Section 21080.3.1? If so, is there a plan for consultation that includes, for example, the determination of significance of impacts to tribal cultural resources, procedures regarding confidentiality, etc.?

The proposed project involves a Specific Plan Amendment; therefore, consultation pursuant to Senate Bill (SB) 18 is required. An addendum is not subject to Assembly Bill (AB) 52 consultation requirements. In accordance with Government Code Section 65352.3, the Town of Yucca Valley contacted the Native American Heritage Commission (NAHC) to identify tribes that may have traditional lands or cultural places within the project area and mailed consultation invitation letters to the tribes identified on July 25, 2025. Four tribes requested consultation: Yuhaaviatam of San Manuel Nation (formerly the San Manuel Band of Mission Indians), Morongo Band of Mission Indians, Twenty-Nine Palms Band of Mission Indians, and Agua Caliente Band of Cahuilla Indians.

ENVIRONMENTAL FACTORS POTENTIALLY AFFECTED

Chapter 3 of this document summarizes the environmental impact conclusions of the Yucca Valley Retail Specific Plan Environmental Impact Report (Certified EIR) and concludes that the proposed project meets the conditions described in CEQA Guidelines Section 15164 for preparation of an Addendum.

DETERMINATION

On the basis of this initial evaluation:

☐ I find that the proposed project COULD NOT have a significant effect on the environment, and a NEGATIVE DECLARATION will be prepared.

☐ I find that although the proposed project could have a significant effect on the environment, there will not be a significant effect in this case because revisions in the project have been made by or agreed to by the project proponent. A MITIGATED NEGATIVE DECLARATION will be prepared.

☐ I find that the proposed project MAY have a significant effect on the environment, and an ENVIRONMENTAL IMPACT REPORT is required.

☐ I find that the proposed project MAY have a "potentially significant impact" or "potentially significant unless mitigated" impact on the environment, but at least one effect 1) has been adequately analyzed in an earlier document pursuant to applicable legal standards, and 2) has been addressed by mitigation measures based on the earlier analysis as described on attached sheets. An ENVIRONMENTAL IMPACT REPORT is required, but it must analyze only the effects that remain to be addressed.

☒ I find that although the proposed project could have a significant effect on the environment, because all potentially significant effects (a) have been analyzed adequately in an earlier EIR or NEGATIVE DECLARATION pursuant to applicable standards, and (b) have been avoided or mitigated pursuant to that earlier EIR or NEGATIVE DECLARATION, including revisions or mitigation measures that are imposed upon the proposed project, nothing further is required.

Signature

02/03/2026

Date

1. INTRODUCTION

1.1 BACKGROUND, PURPOSE, AND SCOPE

The proposed project involves the development of a new fuel station in the existing Walmart Supercenter parking lot in the Town of Yucca Valley. The proposed project is subject to environmental review pursuant to the California Environmental Quality Act (CEQA). Environmental analysis for the proposed project is embodied by this Addendum to the Yucca Valley Retail Specific Plan Environmental Impact Report (EIR) (State Clearinghouse No. 2004071127), which was certified on June 25, 2008 (Certified EIR).

The Certified EIR analyzed the development of a commercial retail center, including a 229,000-square-foot Walmart Supercenter, a six-pump (12 fueling positions) fuel station, a 4,000-square-foot fast-food restaurant with drive-through, and a detention basin. Though the Certified EIR analyzed a fuel station as part of the overall development program, the specific location and design of the proposed fuel facility differ from the original layout. Since the adoption of the Yucca Valley Retail Specific Plan (Specific Plan) (approved project), the Walmart Supercenter and other commercial uses have been constructed. The fuel station analyzed in the Certified EIR was not constructed, and the area originally designated for the fuel station and fast-food restaurant was developed with two smaller fast-food restaurants instead.

The proposed project would develop a six-pump (12 fueling positions) fuel station in the northeastern portion of the existing Walmart Supercenter parking lot, a different location than was originally analyzed. However, the use, intensity, and environmental footprint is similar to the fuel station analyzed in the Certified EIR. The proposed project would also add a single-story, 1,556-square-foot convenience store in connection with the fuel station. This Addendum evaluates whether the proposed project would result in new or more severe environmental impacts than those disclosed in the Certified EIR. The scope of this document is limited to analyzing project-specific impacts and changes in circumstances since certification of the EIR to determine whether the proposed project meets the criteria for preparation of an addendum pursuant to CEQA Guidelines Section 15164.

To implement the proposed project, the following discretionary approvals from the Town are required: (1) Approval of the Conditional Use Permit, and (2) Approval of the Specific Plan Amendment. As lead agency under CEQA, the Town is required to evaluate the environmental impacts associated with these discretionary approvals. The scope of the review for project-related impacts for this Addendum is limited to differences between impacts analyzed by the Certified EIR for the approved project and the proposed project. The baseline includes the

development assumptions and mitigation measures evaluated in the Certified EIR. As required by CEQA, this Addendum also addresses changes in circumstances and new information that could potentially involve new or more severe environmental impacts. The approved project as analyzed in the 2007 Certified EIR for the Specific Plan, serves as the "baseline" for the environmental impact analysis and the physical environment, and represents the physical and regulatory conditions at the time of that environmental review.

1.2 ENVIRONMENTAL PROCEDURES

Pursuant to CEQA and the CEQA Guidelines, this Addendum focuses on whether implementation of the proposed project would require major revisions to the Certified EIR due to the potential for new significant environmental effects or a substantial increase in the severity of previously identified significant effects, pursuant to CEQA Guidelines Section 15162.

Pursuant to Public Resources Code Section 21166 and Section 15162 of the CEQA Guidelines, when an EIR has been certified or a negative declaration adopted for a project, no subsequent or supplemental EIR or negative declaration shall be prepared for the project unless the lead agency determines that one or more of the following conditions are met:

(1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;

(2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or

(3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:

(A) The project will have one or more significant effects not discussed in the previous EIR or negative declaration;

(B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;

(C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of

the project, but the project proponents decline to adopt the mitigation measure or alternative; or

(D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

A supplement to an EIR (supplemental EIR), which is narrower in scope than a subsequent EIR, may be prepared if any of the above criteria apply, but "only minor changes or additions would be necessary to make the previous EIR adequately apply to the project in the changed situation" (CEQA Guidelines Section 15163(a)). In the absence of the need to prepare either a subsequent or supplemental EIR, an addendum to a previously Certified EIR may be prepared. Section 15164 states:

(a) The lead agency or a responsible agency shall prepare an addendum to a previously Certified EIR if some changes or additions are necessary but none of the conditions described in Section 15162 calling for preparation of a subsequent EIR have occurred.

(b) An addendum to an adopted negative declaration may be prepared if only minor technical changes or additions are necessary or none of the conditions described in Section 15162 calling for the preparation of a subsequent EIR or negative declaration have occurred.

(c) An addendum need not be circulated for public review but can be included in or attached to the final EIR or adopted negative declaration.

(d) The decision making body shall consider the addendum with the final EIR or adopted negative declaration prior to making a decision on the project.

(e) A brief explanation of the decision not to prepare a subsequent EIR pursuant to Section 15162 should be included in an addendum to an EIR, the lead agency's findings on the project, or elsewhere in the record. The explanation must be supported by substantial evidence. (CEQA Guidelines § 15164)

This Addendum to the Certified EIR has been prepared because the Lead Agency's evaluation of the proposed project has not indicated any of the circumstances requiring a subsequent or supplemental EIR. As demonstrated in Chapter 3, *Environmental Analysis*, the proposed project would not result in impacts that differ from the approved project, and it would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in CEQA Guidelines Sections 15162(a) and 15163(a). The proposed project would not change the assumptions made under the Certified EIR.

The proposed project is consistent with the Certified EIR and would not require changes to the approved project. This Addendum demonstrates that no substantial changes are proposed to the approved project or have occurred in the development area covered by the Certified EIR that would require major revisions to the Certified EIR or substantially increase the severity of previously identified significant effects (see CEQA Guidelines Section 15162[a][1]). Therefore, the impacts of the proposed project are within the significance findings and types of environmental impacts disclosed in the Certified EIR.

As substantiated in Section 3 of this Addendum, the proposed project would not result in new significant impacts or substantially increase the severity of the impacts of the approved project due to substantial changes in circumstances since the certification of the EIR (see CEQA Guidelines Section 15162[a][2]).

In addition, no information that was not known and could not have been known at the time the Certified EIR was certified has been revealed that shows new or substantially more severe significant impacts would result (see CEQA Guidelines Section 15162[a][3]). There are no new or considerably different mitigation measures that would substantially reduce one or more significant impacts of the approved project but that are not adopted.

Because this Addendum does not identify new or substantially more severe significant impacts, circulation for public review and comment is not necessary (CEQA Guidelines Section 15164[c]). The Town of Yucca Valley has considered this Addendum together with the previously Certified EIR prior to adoption of the proposed project, pursuant to CEQA Guidelines Section 15164(d).

1.3 PRIOR ENVIRONMENTAL DOCUMENTATION

The proposed project site is in the Specific Plan area, which was approved by the Town of Yucca Valley in August 2008. The Yucca Valley Retail Specific Plan EIR (State Clearinghouse No. 2004071127) was prepared and certified in accordance with CEQA to analyze the environmental impacts associated with development of the Specific Plan area.

The Certified EIR evaluated development of approximately 28 acres of commercial uses, including a 229,000-square-foot Walmart Supercenter, a six-pump fuel station, a 4,000-square-foot fast-food restaurant, and associated infrastructure and landscaping. Although the fuel station analyzed in the Certified EIR was not constructed, the Walmart Supercenter and other commercial uses were developed, consistent with the Specific Plan.

The proposed project is a modification to previously analyzed uses and would be processed as an Addendum to the Certified EIR, consistent with CEQA Guidelines Section 15164. The Addendum evaluates whether the proposed fuel station, to be developed in the northeastern portion of the Walmart Supercenter parking lot, would result in new or more severe environmental impacts compared to those disclosed in the Certified EIR.

2. PROJECT DESCRIPTION

2.1 PROJECT LOCATION

The project site is at 58501 Twentynine Palms Highway (SR-62) (APN 0601-201-54) in the Town of Yucca Valley (Town), San Bernardino County, California The project site encompasses 1.32 acres in the northeast portion of the existing Walmart Supercenter parking lot. The site is south of SR-62 and east of Avalon Avenue (see Figure 1, *Regional Location*, and Figure 2, *Local Vicinity*). The project site is bordered by ornamental landscaping and a paved drive aisle to the north and east, and by Walmart Supercenter parking to the south and west.

The Specific Plan area is approximately 10 miles west of the City of Twentynine Palms, 15 miles northeast of the City of Desert Hot Springs, and 17 miles northeast of the City Palm Springs. Joshua Tree National Park lies to the south and southeast of the Town. The project site is in the Yucca Valley North United States Geological Survey (USGS) 7.5-minute Quadrangle.

2.2 ENVIRONMENTAL SETTING

The project site is fully developed and surrounded by developed uses. It is developed with a paved commercial parking lot with ornamental landscaping on a Walmart Supercenter property (see Figure 3, *Aerial Photograph*). The project site has no natural or undisturbed areas, nor does it contain any unique topographic or biological features such as sensitive habitat, special-status species, or jurisdictional features (e.g., wetlands, streams, or other water bodies subject to federal or state regulatory authority). The nearest western Joshua tree is more than 60 feet from the project site, outside the area of disturbance.

The project site is designated in the General Plan as Commercial and is zoned as General Commercial under the Specific Plan. The surrounding area consists of commercial development along SR-62, with adjacent retail uses and associated parking areas to the east, south, and west. The nearest residential uses are approximately 0.12 mile north of the project site and north of SR-62. Surrounding land use designations include Medium High Density Residential to the north, Commercial to the east, Industrial to the south, and Commercial and Low Density Residential to the west, as identified in the Town's General Plan (Town of Yucca Valley 2022). Like the project site, property to the east and west is also zoned General Commercial, to the south as Industrial, and to the north as Residential, Multi-Family.

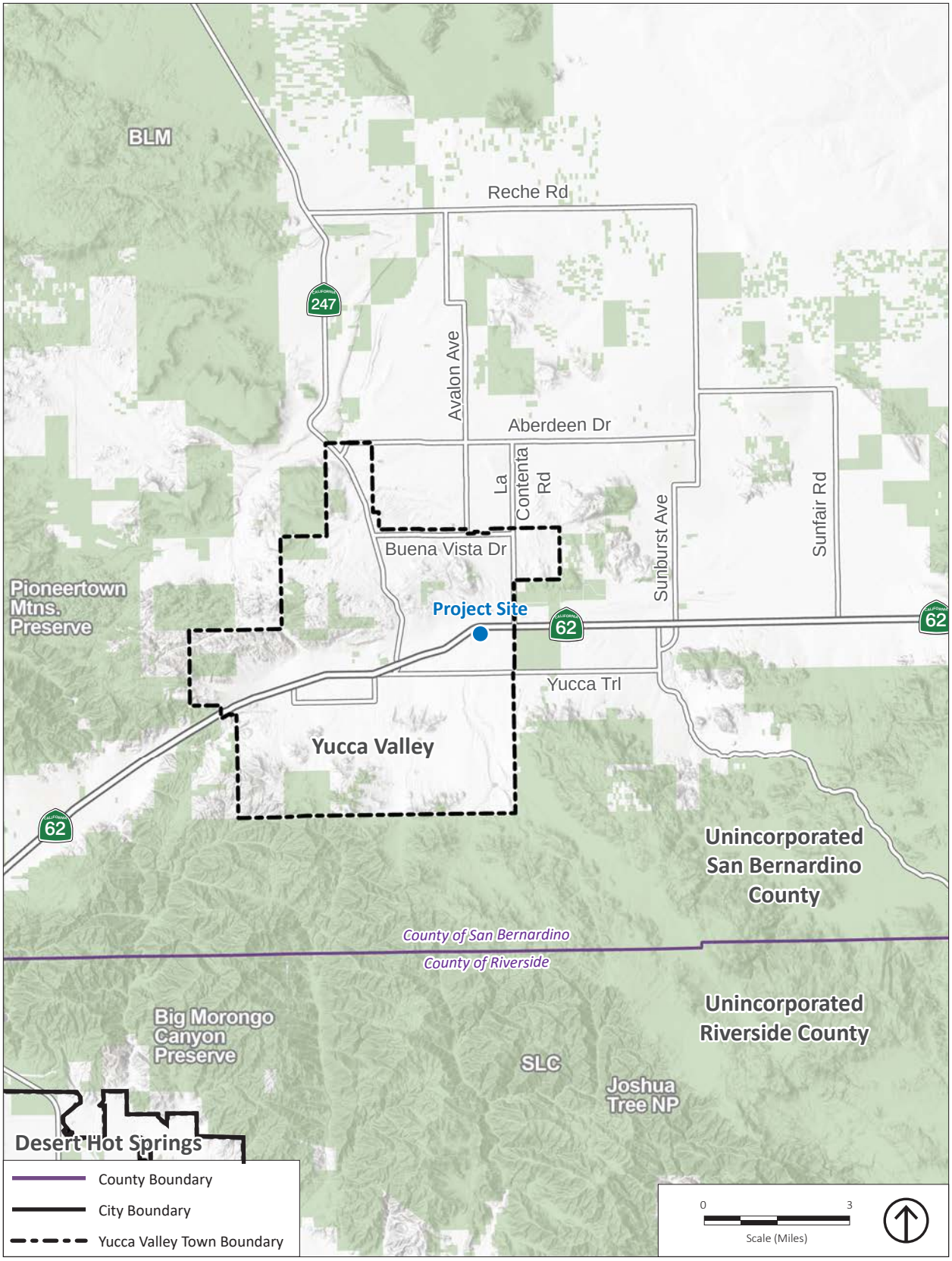
2.3 DESCRIPTION OF THE PROPOSED PROJECT

The proposed project is a new fuel station and convenience store in the northeastern portion of the existing Walmart Supercenter parking lot, consistent with the commercial land use vision established in the Specific Plan. The fuel station would include six fuel dispensers (with 12 fueling positions) beneath a canopy, a 1,556-square-foot convenience store that would include alcohol sales and an air station. A total of 135 parking spaces would be removed, but 15 spaces would be installed at the convenience store. Three USTs would be installed on the site: one 20,000-gallon gasoline tank, one 20,000-gallon gasoline split tank[2], and one 20,000-gallon diesel tank. A total of 771 parking spaces (inclusive of the 15 spaces at the fuel station/convenience store) would still be available for the Walmart Supercenter, which is 28 more spaces than required by the Town.

The proposed project would include new drive aisles for internal circulation, new landscaped areas in the parking lot and in median along the west side of the project site and the re-landscaping of an existing landscaped median on the north side of the project site (see Figure 4, *Site Plan*). A new pedestrian walkway would connect the project site to an existing bus stop area to the northwest, improving pedestrian access to public facilities. The proposed project would require excavation up to 25 feet below grade to install the underground tanks and associated utilities (see Figure 4).

The proposed project would connect to existing utility infrastructure that serves the Walmart Supercenter property, including water, wastewater, electricity, and telecommunications. As part of project development, existing underground utilities within the project footprint would be relocated or adjusted as needed to accommodate the fuel station and associated improvements. No off-site (outside of the Walmart Supercenter property) utility extensions or relocations are proposed. The site would be graded to direct surface runoff to a new on-site underground detention system equipped with a hydrodynamic separator and media filtration unit. This stormwater system is designed to capture and treat runoff prior to discharge, consistent with requirements under the Phase II Small MS4 General Permit and Town of Yucca Valley standards. These stormwater controls constitute the project's low-impact development (LID) features and include pretreatment of runoff from fuel areas, detention on-site, diversion of runoff from impervious areas to landscaped areas where feasible, and preservation of existing drainage patterns. The system would also ensure compliance with post-construction stormwater management requirements.

[2] The 20,000-gallon split gasoline tank would hold 12,000 gallons of regular gasoline and 8,000 gallons of premium gasoline, respectively.



Source: Generated using ArcMap 2025.

Figure 1
Regional Location

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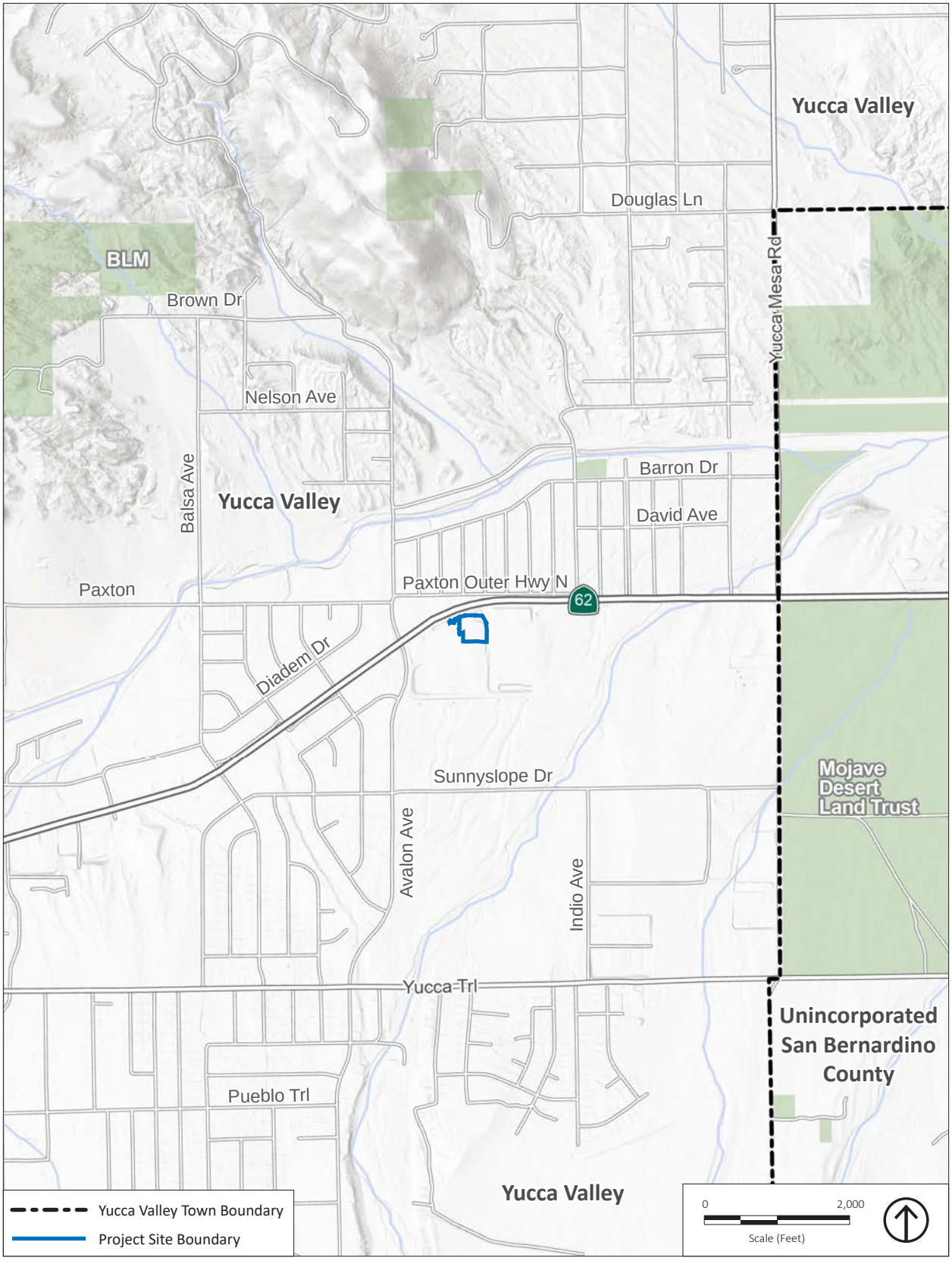

Source: Generated using ArcMap 2025.

Figure 2
Local Vicinity

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Source: Nearmap 2025.

Figure 3
Aerial Photograph

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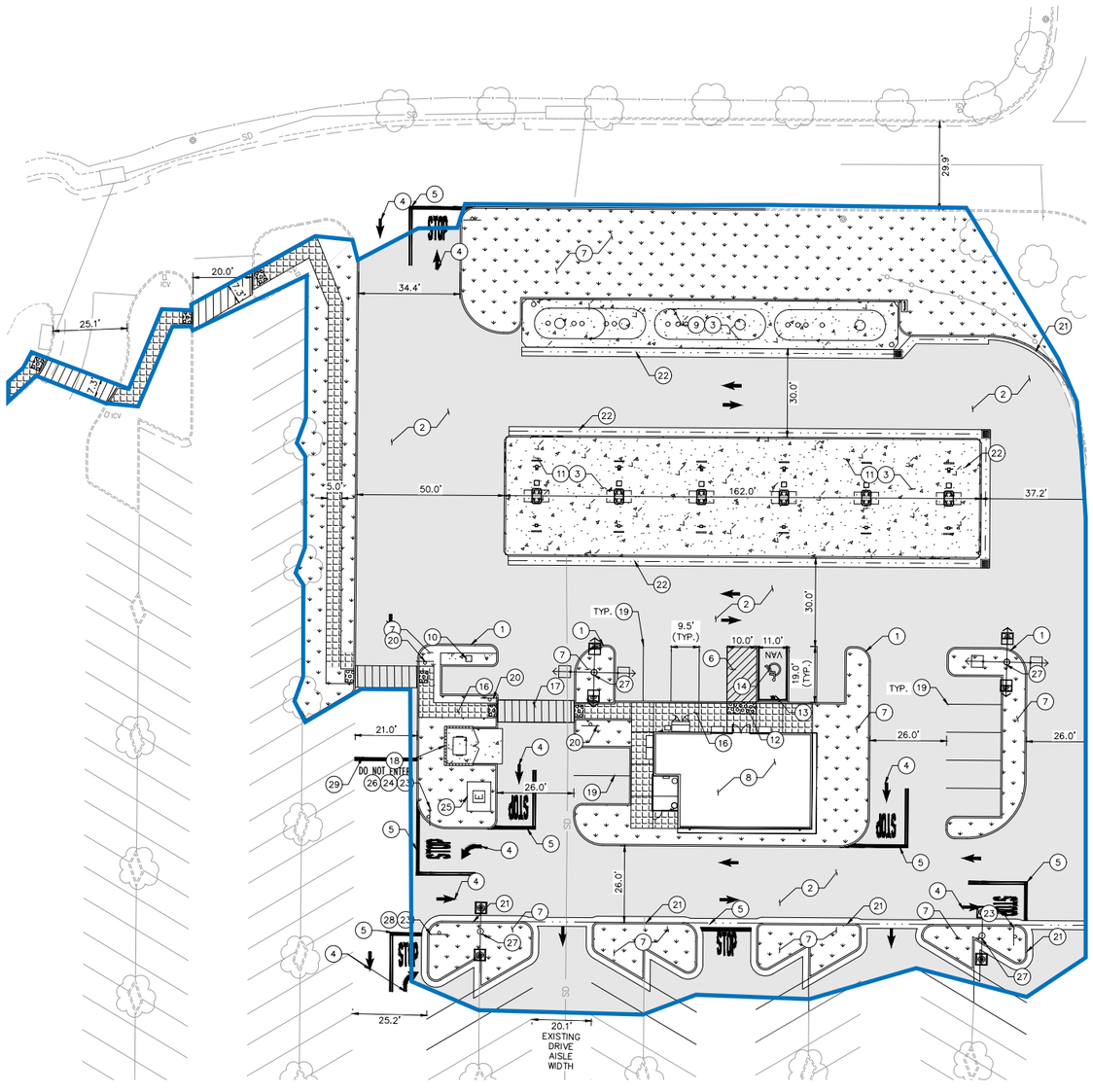

Project Site Boundary

OWNER

WAL-MART STORES INC.
MAIL STOP 0505
702 SW 8TH STREET
BENTONVILLE, AR 72716-5570
479-871-7573

CIVIL ENGINEER

JACOB GLAZE, P.E.
KIMLEY-HORN
1100 TOWN AND COUNTRY ROAD
ORANGE, CA 92868
714-939-1030

APPLICANT

RYAN ALVAREZ P.E.
KIMLEY-HORN
1100 TOWN AND COUNTRY ROAD
ORANGE, CA 92868
714-939-1030
RYAN.ALVAREZ@KIMLEY-HORN.COM

LEGEND

- PROPERTY LINE
- HEAVY DUTY ASPHALT PAVING
- LANDSCAPING
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- TRUNCATED DOMES

CONSTRUCTION NOTES

1. PROPOSED CONCRETE CURB.
2. PROPOSED HEAVY DUTY ASPHALT PAVEMENT.
3. PROPOSED CONCRETE PAVEMENT.
4. STRIPE DIRECTIONAL ARROW PAVEMENT MARKING.
5. STRIPE STOP BAR PAVEMENT MARKING.
6. STRIPE WHITE 4" STRIPE, 60 DEGREES, SPACED AT 36" O.C
7. PROPOSED LANDSCAPING.
8. PROPOSED 1,440 SF CONVENIENCE STORE.
9. PROPOSED UNDERGROUND GAS TANKS. ONE 20,000 GAL UNL, ONE 20,000 GAL SPLIT (12,000 UNL/8,000 PRM), AND ONE 20,000 GAL DSL.
10. PROPOSED AIR STATION.
11. PROPOSED CANOPY.
12. PROPOSED TRUNCATED DOMES.
13. PROPOSED VAN ACCESSIBLE PARKING SIGN ON POST.
14. PROPOSED VAN ACCESSIBLE PARKING.
15. PROPOSED PEDESTRIAN CROSSING SIGN ON POST AND BOLLARD.
16. PROPOSED CONCRETE SIDEWALK.
17. PROPOSED PATH OF TRAVEL STRIPING.
18. PROPOSED TRASH ENCLOSURE.
19. PROPOSED REGULAR PARKING.
20. PROPOSED PEDESTRIAN CROSSING SIGN ON POST.
21. PROPOSED CURB AND GUTTER.
22. PROPOSED VALLEY GUTTER.
23. PROPOSED STOP SIGN ON POST.
24. PROPOSED SUPPLEMENTARY "CROSS TRAFFIC DOES NOT STOP" PLACARD.
25. PROPOSED TRANSFORMER PAD SHOWN FOR REFERENCE ONLY
26. PROPOSED SUPPLEMENTARY "LEFT TURN ONLY" PLACARD.
27. PROPOSED LIGHT POLE BASE. SEE LIGHTING INFORMATION ON PHOTOMETRIC PLANS.
28. PROPOSED SUPPLEMENTARY "NO THROUGH TRAFFIC" PLACARD.
29. STRIPE "DO NOT ENTER" BAR PAVEMENT MARKING.

SITE ANALYSIS TABLE

FUEL STATION ADDRESS	58501 TWENTY NINE PALMS HWY, YUCCA VALLEY, CA 92284
EXISTING/PROPOSED ZONING	CG - GENERAL COMMERCIAL
EXISTING/PROPOSED GENERAL PLAN DESIGNATION	(C) COMMERCIAL
SPECIFIC PLAN IDENTIFICATION	YUCCA VALLEY RETAIL SP
EXISTING LAND USE	GENERAL RETAIL MERCHANDISER
PROPOSED LAND USE	GENERAL RETAIL MERCHANDISER/GAS STATION WITH CONVENIENCE STORE
GROSS/PARCEL AREA	23.85 ACRES | 1,038,906 S.F.
NET AREA	22.91 ACRES | 997,959 S.F.
EXISTING WALMART BUILDING AREA	184,146 S.F.
PROPOSED FUEL AREA OF DISTURBANCE	1.32 ACRES
PROPOSED FUEL BUILDING AREA	1,556 S.F.
PROPOSED TOTAL BUILDING AREA	185,702 S.F.

SITE ANALYSIS TABLE (EXISTING STORE)

	EXISTING	PROPOSED
TOTAL BUILDING AREA[1]	184,146 S.F.	185,702 S.F.
REQUIRED PARKING (PER CITY OF YUCCA VALLEY) REQUIRED PARKING RATIO (PER CITY OF YUCCA VALLEY)	737 SPACES 4.0/1,000 S.F.	743 SPACES 4.0/1,000 S.F.
REQUIRED PARKING (PER ECR/CC&R) REQUIRED PARKING RATIO (PER ECR/CC&R)	N/A N/A	N/A N/A
CUSTOMER AND ASSOCIATE PARKING ACCESSIBLE PARKING (VAN)[2] EV PARKING PICKUP PARKING PARKING SPACES OCCUPIED BY CART CORRALS (NOT INCLUDED IN PARKING COUNTS BELOW)	851 SPACES 32 (0) SPACES 0 SPACES 23 SPACES 100 CORRALS / 44 SPACES	715 SPACES 33 (0) SPACES 0 SPACES 23 SPACES 100 CORRALS / 37 SPACES
PROPOSED TOTAL PARKING EXCLUDING PICKUP STALLS PROPOSED PARKING RATIO EXCLUDING PICKUP STALLS	883 SPACES 4.7/1,000 SF	748 SPACES 4.0/1,000 S.F.
PROPOSED TOTAL PARKING INCLUDING PICKUP STALLS PROPOSED PARKING RATIO INCLUDING PICKUP STALLS	906 SPACES 4.9/1,000 S.F.	771 SPACES 4.1/1,000 S.F.

NOTE:
1. CART CORRAL OCCUPYING STALLS ARE REMOVED FROM ALL COUNTS AND DO NOT CONTRIBUTE TO THE PARKING RATIOS IN THE TABLE.

APN: 0601201540000

LEGAL DESCRIPTION:
THAT PORTION OF THE NORTHWEST ONE-QUARTER OF THE NORTHWEST ONE-QUARTER OF SECTION 32, TOWNSHIP 1 NORTH, RANGE 6 EAST, SAN BERNARDINO MERIDIAN, IN THE CITY OF YUCCA VALLEY, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TOT HE OFFICIAL PLAT THEREOF, LYING SOUTHEASTERLY AND SOUTHERLY OF THE SOUTHEASTERLY LINE OF 29 PALMS HIGHWAY CONVEYED TO THE STATE OF CALIFORNIA BY DEED RECORDED OCTOBER 13, 1916 IN BOOK 9031, PAGE 97 OF OFFICIAL RECORDS.

0 50
Scale (Feet)

Source: Kimley-Horn 2025.

Figure 4
Site Plan

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2.3.1 Construction and Operation

Construction of the proposed project is anticipated to begin in 2026 and would be completed over 12 to 18 months. Construction activities would include site preparation, grading, construction, and trenching for underground utilities; installation of fuel infrastructure and USTs; construction of the convenience store building; and installation of landscaping and other site improvements. Excavation of up to 25 feet below grade would be required for the installation of underground fuel tanks and associated utility infrastructure. Construction activities would comply with applicable Town standards and state and federal regulatory requirements.

Following construction, the fuel station and convenience store would operate 24 hours a day, seven days a week, generally consistent with the hours of the Walmart Supercenter. The facility would employ approximately six employees across three shifts. The convenience store would offer typical retail goods, alcohol sales, and an air station for vehicle tire inflation. Fuel deliveries, anticipated once or twice per week, would be by licensed tanker trucks in compliance with applicable environmental and safety regulations.

Customer access to the fuel station would be primarily via existing Walmart drive aisles. The proposed internal circulation layout is designed to maintain efficient traffic flow in the parking lot and ensure safe vehicular and pedestrian access to both the fuel station and the Walmart Supercenter.

2.3.2 Lead Agency and Responsible Agency Approvals

LEAD AGENCY

The Town of Yucca Valley is the lead agency under CEQA and has primary responsibility for reviewing and approving the proposed project. Discretionary approvals required from the Town include:

- Approval of a Specific Plan Amendment to include the proposed project (i.e. a fuel station) in the Specific Plan.
- Approval of a Conditional Use Permit (CUP) for the construction and operation of a fuel station and associated convenience store, pursuant to Dev. Code 9.06.030(A)(1)(b).

REQUIRED PERMITS AND APPROVALS

In addition to the Town approvals, the proposed project is subject to review, approval, or permitting by other agencies, including:

- **San Bernardino County Department of Environmental Health.** Issuance of permits related to USTs for fuel storage and compliance with applicable health and safety regulations.
- **Colorado River Basin Regional Water Quality Control Board (Region 7).** Compliance with water quality regulations, including coverage under the State Water Resources Control Board's Phase II Small Municipal Separate Storm Sewer System (MS4) General Permit and Construction General Permit.
- **Mojave Desert Air Quality Management District.** Issuance of a permit to operate the fuel dispensing facilities and associated equipment for stationary emission sources.

The environmental review for the proposed project considers the potential impacts associated with these discretionary and ministerial approvals. Coordination with applicable agencies would occur throughout the entitlement and permitting process to ensure compliance with all applicable state, regional, and local regulatory requirements.

RELATED REVIEW AND CONSULTATION REQUIREMENTS

Senate Bill 18. In accordance with California Government Code Section 65352.3 (Senate Bill [SB] 18), the proposed project is subject to tribal consultation requirements due to the proposed Specific Plan Amendment. SB 18 requires local governments to contact and offer to consult with California Native American tribes that are traditionally and culturally affiliated with the project area prior to the adoption or amendment of a general plan, specific plan, or related planning policy.

As the lead agency, the Town of Yucca Valley notified tribes identified by the NAHC as being traditionally affiliated with the project area. The tribes were first notified about the proposed project in February 2025. Formal invitations to consult were sent on July 21, 2025, and July 25, 2025, offering tribal governments the opportunity to participate in consultation regarding the proposed Specific Plan Amendment and associated discretionary actions. Tribes that identify traditional cultural places, sacred sites, or other tribal cultural resources within or near the project site have the opportunity to consult with the Town to determine appropriate measures for avoidance, preservation, or mitigation in accordance with SB 18. The following tribes requested consultation under SB 18:

- The Twenty-nine Palms Band of Mission Indians responded on March 10, 2025, requesting formal consultation under SB 18. The Town met with the Tribe on July 10, 2025.

- The Morongo Band of Mission Indians responded on March 27, 2025, requesting formal consultation under SB 18. The Town provided a draft version of this Addendum to the Tribe and received no response or comments.

- The Yuhaaviatam of San Manuel Nation responded on August 5, 2025, confirming formal consultation is not required, and shared recommended mitigation measures.

- The Agua Caliente Band of Cahuilla Indians responded on August 5, 2025, requesting formal consultation under SB 18. The Town met with the Tribe on August 6, 2025, and the Tribe subsequently followed up after the meeting via email requesting the presence of an approved cultural resource monitor or monitors from a consulting tribe during any ground-disturbing activities. The Tribe responded on December 8, 2025, concurring with the Town's determination at this time. They noting that the project site lies within the Tribe's Traditional Use Area and stated that cultural monitoring is deferred to the San Manuel and Morongo tribes.

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3. ENVIRONMENTAL ANALYSIS

The section summarizes the conclusions of the Certified EIR and then discusses how the proposed project would meet the conditions described in CEQA Guidelines Section 15164 for preparation of an Addendum. Mitigation measures referenced are from the Certified EIR and are modified as appropriate.

3.1 AESTHETICS

3.1.1 Summary of Impacts Identified in the Approved Project

- **Scenic Vista**. Because vistas of the mountains surrounding the project site would not be completely blocked, the architectural features of the approved project are complementary to the desert setting, and the elevation of the site is low lying in comparison to some of the nearby roads, the Certified EIR identified that the approved project would have a less than significant effect on a scenic vista.

- **Scenic Resources in a State Scenic Highway**. According to the Certified EIR, there are no State-designated scenic highways in the Town of Yucca Valley. SR-62 is an eligible State Scenic Highway and is also designated as a local scenic highway and Joshua trees are considered a scenic resource in the Town. The Joshua Tree Survey and Salvage Plan (included in the Specific Plan) identified suitable areas for transplanting trees within the Specific Plan area and ensured compliance with Policy 6 of the Biological Resources Element and the Town of Yucca Valley Ordinance No. 140. Therefore, the Certified EIR identified a less than significant impact with respect to scenic resources (Joshua trees) within a State Scenic Highway.

- **Visual Character or Quality**. The Certified EIR identified that the approved project was consistent with existing development trends along SR-62, complied with the requirements of the Specific Plan, and was subject to review by the Town of Yucca Valley. Therefore, the Certified EIR determined that the approved project would not substantially degrade the existing visual character or quality of the site and its immediate surroundings, and its impacts were less than significant impact.

- **Light and Glare**. The Certified EIR identified that impacts associated with daytime glare were less than significant and that the approved project would not affect nighttime views from land uses to the north and west, as these uses are separated by roadways that already produce nighttime lighting and glare impacts. However, the Certified EIR identified that the approved project could create a potentially significant impact from spillover light at the

adjacent properties to the east and south. The Certified EIR included Mitigation Measures 4.1.1A, 4.1.1B, and 4.1.1C to reduce nighttime light and glare impacts to less than significant levels.

3.1.2 Impacts Associated with the Proposed Project

Except as provided in Public Resources Code Section 21099, would the project:	**Level of Impact in Certified EIR**	**Conditions Requiring Subsequent Review**			**Proposed Project Meets the Conditions for an Addendum** *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Have a substantial adverse effect on a scenic vista?	LTS	No	No	No	**Yes**
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?	LTS	No	No	No	**Yes**
c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other	LTS	No	No	No	**Yes**

Except as provided in Public Resources Code Section 21099, would the project:	**Level of Impact in Certified EIR**	**Conditions Requiring Subsequent Review**			**Proposed Project Meets the Conditions for an Addendum** *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
regulations governing scenic quality?					
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	LTS/M	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation;
SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Have a substantial adverse effect on a scenic vista?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As discussed in the Certified EIR, the Little San Bernardino Mountains and the Sawtooth Mountains are the dominant scenic vistas visible from the Town. The project site does not contain any scenic vistas, with the Little San Bernardino Mountains being the closest scenic vista, approximately 6 miles south of the project site.

Although the specific location and design of the proposed fueling facility differ from the original layout of the approved project's fuel station, the facility would be developed within the same general boundaries analyzed in the Certified EIR. The fuel station would remain generally consistent with the approved project as a six-pump fuel station with a canopy. The addition of a single-story, 1,556-square-foot convenience store would not alter the project's overall visual profile or introduce new features that obstruct views of the surrounding landscape.

Due to the distance, the proposed project site would not be distinguishable from the nearest scenic vista, the Little San Bernardino Mountains six miles to the south. In addition, the Walmart Supercenter (part of the approved project), Home Depot, and other commercial uses already obstruct distant eastern views of the surrounding mountains. The proposed project would not exceed a height of 40 feet, in compliance with the Town's Development Code, and would be similar in height to other commercial uses in the surrounding area. Therefore,

development of the single-story convenience store and fuel station would not significantly block any vista or viewpoint.

Architectural design, building materials, and landscaping would comply with the Specific Plan and Town design standards, which promote desert-compatible design and muted colors that minimize contrast with the surrounding landscape. Therefore, the proposed project would not result in a substantial adverse effect on a scenic vista. Visual impacts would remain similar to those identified in the Certified EIR and would continue to be less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164.

A portion of State Route 247 (SR-247) approximately 4 miles northwest of the project site is the closest officially designated Scenic Highway (Caltrans 2025). SR-62, which bounds the project site to the north, is an eligible but not officially designated State Scenic Highway. The nearest western Joshua tree is more than 60 feet from the project site, outside the area of disturbance.. Therefore, no scenic resources such as trees, rock outcroppings, or historic buildings would be damaged or removed as a result of the proposed project. No new significant environmental effects would occur, and impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) In nonurbanized areas, substantially degrade the existing visual character or quality of public views of the site and its surroundings? (Public views are those that are experienced from publicly accessible vantage point). If the project is in an urbanized area, would the project conflict with applicable zoning and other regulations governing scenic quality?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164.
As defined by Public Resources Code Section 21071, for an incorporated city, an “urbanized area” is a city that either by itself or in combination with two contiguous incorporated cities has

a population of at least 100,000 persons. The Town of Yucca Valley has an estimated population of 22,027 people and is not contiguous with any towns or cities (DOF 2025). Therefore, the project site would be in a nonurbanized area.

The proposed project would be developed in similar size and height to surrounding commercial development. The proposed project would be similar in scale, design, and height to surrounding commercial uses and would not exceed the 40-foot height limit allowed under the General Commercial zoning designation, consistent with the approved project. The proposed project would be constructed in accordance with the Specific Plan, setback and height regulations, and applicable zoning standards. Therefore, the proposed project would not substantially degrade the existing visual character or quality of the site and its immediate surroundings, and impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would involve construction activities similar to, or less intensive than, those of the approved project. Temporary construction activities and lighting would be consistent with the assumptions of the approved project. Sources of light and glare during construction activities would be temporary and would not constitute a new source of substantial glare. Therefore, impacts from light and glare during construction would result in a less than significant impact.

Operational lighting and glare would be similar to the approved project, which includes internal lights emanating from the commercial development; security lighting; overhead fuel station lighting; and accent lighting on buildings and landscaping. The proposed project's parking and drive aisles along SR-62 would increase vehicles on-site in these areas. However, the addition of vehicles on the site along SR-62 would not introduce a substantial new source of light and glare since vehicles already travel along this roadway. Although the specific location and design of the proposed fueling facility differ from the original layout, light and glare impacts were previously analyzed by the approved project. Further, the addition of the convenience store would not introduce new sources of light and glare to the project site because the Walmart Supercenter and surrounding area includes internal sources of light and glare. However, to further minimize potential spillover lighting and glare, the proposed project would continue to implement Certified EIR Mitigation Measures 4.1.1B and 4.1.1C, which require the use of cut-off optics and

submittal of a photometric study to demonstrate that lighting does not extend onto adjacent properties. Compliance with these measures and the Town's lighting standards would ensure that light and glare impacts remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.1.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following mitigation measures were taken directly from the Certified EIR and would be incorporated as part of the proposed project. Applicable mitigation measures from the Certified EIR have been incorporated into the proposed project's mitigation monitoring and reporting program. Mitigation Measure 4.1.1.A was incorporated as part of the approved project and does not apply to the proposed project. Any modifications to these mitigation measures are shown in ~~strikethrough~~ for deleted text and <u>underline</u> for new, inserted text.

> ~~**4.1.1A** Pole-mounted floodlights at the main entry façade shall be fitted with glare shields or adjustable "barn doors" to control unwanted spill light.~~
>
> **4.1.1B** All exterior wall-mounted area lights on project buildings, the fast-food drive-through lane lights, and the fast-food restaurant parking lot lights shall be equipped with "cut-off" optics to mitigate spillover light and direct glare within the project boundary. Specifically, the Illumination Engineering Society (IES) definition for the cut-off fixture classification is as follows: Intensity at 80 degrees from nadir (0-degree-angle pointing directly downward from the lighting fixture) does not exceed 100 candela (cd) per 1000 lamp lumens, nor at 90 degrees from nadir does the intensity exceed 25 cd per 1,000 lamp lumens.
>
> **4.1.1C** Prior to the issuance of grading permits, the applicant shall submit to the Town a photometric study (to include parking areas and access way lights, external security lights, and lighted signage), proving that the project light sources do not spill over to adjacent off-site properties.

3.2 AGRICULTURE AND FORESTRY RESOURCES

3.2.1 Summary of Impacts Identified in the Approved Project

- **Conversion of Farmland**. The Certified EIR determined that development under the approved project would not result in the conversion of farmland to non-agricultural use. According to the Farmland Mapping and Monitoring Program, no portion of the Town of Yucca Valley, including the project site, is designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance. Therefore, the Certified EIR identified no impact related to farmland conversion.

- **Agricultural Zoning or Williamson Act Conflicts**. The Certified EIR identified that the project site is designated and zoned General Commercial (C-G) and is not subject to a Williamson Act contract. Development of the approved project would not conflict with any agricultural zoning or agricultural preserves. Therefore, the Certified EIR concluded that no impact would occur.

- **Forestry Resources.** The Certified EIR did not evaluate forestry resources, as this topic was not yet included in the CEQA Guidelines Appendix G checklist at the time the document was prepared. However, the project site and surrounding area are urbanized and do not contain forest land, timberland, or other related resources.

3.2.2 Impacts Associated with the Proposed Project

Would the Project:	**Level of Impact in Certified EIR**	**Conditions Requiring Subsequent Review**			**Proposed Project Meets the Conditions for an Addendum** *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps	NI	No	No	No	**Yes**

Would the Project:	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?					
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	NI	No	No	No	**Yes**
c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?	NI	No	No	No	**Yes**
d) Result in the loss of forest land or conversion of forest land to non-forest use?	NI	No	No	No	**Yes**
e) Involve other changes in the existing environment which, due to their	NI	No	No	No	**Yes**

Would the Project:	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?					

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to non-agricultural use?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area. As with the Certified EIR, the project site is designated as C-G and has not previously contained any farmland on the site. Currently, the project site is developed with the existing Walmart Supercenter parking lot and is surrounded by a mix of commercial and retail uses along SR-62, including restaurants (Panda Express, Taco Bell, Dickey's Barbecue Pit, Firehouse Subs and Steak 'n Shake), shops (Walmart Supercenter, The Home Depot, Petco, Marshalls and Sally's Beauty), and service-oriented businesses (Avalon Pharmacy and Beauty Suites). The project site and surrounding area do not contain any farmland, are not mapped by the California Important Farmland Finder, and would not result in the conversion of any farmland to non-agricultural use, consistent with the Certified EIR (DOC 2025). With no changes in the physical location of the site, the proposed project would not result in a new impact or a substantial increase in the magnitude of impacts identified in the Certified EIR. Therefore, impacts related to farmland and the conversion of farmland to non-agricultural uses would continue to result in no impact.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore,

would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As discussed in Impact 3.2.2 (a), the project site is zoned C-G, and no agricultural uses exist on the site or in the vicinity of the project site. The proposed project would remain within the boundaries of the Specific Plan area. As identified by the Certified EIR, the project site is not covered by a Williamson Act contract, and implementation of the proposed project would not result in the termination of such a contract. Therefore, impacts associated with zoning for agricultural use, or a Williamson Act contract would continue to result in no impact.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Conflict with existing zoning for, or cause rezoning of, forest land (as defined in Public Resources Code section 12220(g)), timberland (as defined by Public Resources Code section 4526), or timberland zoned Timberland Production (as defined by Government Code section 51104(g))?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As discussed in Impact 3.2.2 (a), the project site is zoned C-G and is fully developed with the existing Walmart Supercenter parking lot. The project site is surrounded by a mix of commercial and retail uses. Based on the Town's General Plan and zoning maps, the Town does not have any lands designated as forest land, timberland, or Timberland Production (Yucca Valley 2014). Therefore, no impact would occur.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) Result in the loss of forest land or conversion of forest land to non-forest use?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Town does not designate or zone any properties as forest land (Yucca Valley 2022, 2014). The

proposed project is located within a developed commercial area and would not affect forest land or forest resources. Therefore, no impact would occur.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to non-agricultural use or conversion of forest land to non-forest use?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The project site is zoned C-G and is developed with the existing Walmart Supercenter parking lot. The project site is surrounded by a mix of commercial and retail uses. No farmland exists on the project site or in the surrounding area. As discussed in Impact 3.2.2 (a), the project site and surrounding area do not contain any farmland and would not result in the conversion of any farmland to non-agricultural use, consistent with the approved project. Additionally, the Town does not have any land designated or zoned for forest land (Yucca Valley 2022, 2014). Therefore, no impact would occur as previously disclosed in the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.2.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures were adopted as part of the approved project's Certified EIR relating to agricultural resources.

3.3 AIR QUALITY

3.3.1 Summary of Impacts Identified in the Approved Project

- **Air Quality Management Plan Consistency**. The Certified EIR determined that the approved project is consistent with the Mojave Desert Air Quality Management District (MDAQMD) Air Quality Management Plan (AQMP). Because the AQMP is based on local general plan

growth assumptions, projects consistent with the Town's General Plan and zoning designations are considered consistent with the AQMP. The approved project was consistent with both, and therefore the Certified EIR identified less than significant impacts with respect to AQMP consistency.

- **Short-Term Construction Emissions**. The Certified EIR determined that construction-related exhaust, fugitive dust, and VOC emissions would exceed MDAQMD construction thresholds. Although Mitigation Measure 4.3.1A was adopted to reduce exhaust and VOC emissions (e.g., equipment maintenance, dust suppression, and use of low-VOC coatings), the Certified EIR concluded that construction emissions would remain significant and unavoidable.

- **Long-Term Operational Emissions**. The Certified EIR determined that operational (mobile-source) emissions generated by customer and delivery trips would exceed MDAQMD daily thresholds. Implementation of Mitigation Measure 4.3.2A, which requires transportation demand measures (TDMs) to reduce vehicle emissions, would not fully eliminate the exceedances. Therefore, long-term operational air quality impacts were considered significant and unavoidable.

- **Exposure of Sensitive Receptors to Pollutant Concentrations**. The Certified EIR evaluated localized impacts related to carbon monoxide (CO) hotspots and diesel exhaust health risks. The analysis found that project-related traffic would not exceed State or Federal Ambient Air Quality Standards for CO, and health risks from diesel emissions would remain below 10 in a million cancer risk and 1.0 for the chronic hazard index. Accordingly, the Certified EIR concluded that impacts to sensitive receptors would be less than significant.

- **Odors**. The Certified EIR noted that construction and operational activities could produce objectionable odors from equipment exhaust and solid waste handling. However, compliance with Yucca Valley Municipal Code requirements for waste management and material storage would reduce odor impacts to less than significant.

3.3.2 Impacts Associated with the Proposed Project

Where available, the significance criteria established by the applicable air quality management district or air pollution control district may be relied upon to make the following determinations.

Would the project:

Environmental Issues:	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Conflict with or obstruct implementation of the applicable air quality plan?	LTS	No	No	No	**Yes**
b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?	SU	No	No	No	**Yes**
c) Expose sensitive receptors to substantial pollutant concentrations?	LTS	No	No	No	**Yes**
d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?	LTS	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation;
SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

The analysis in this section is based on the *Air Quality and Greenhouse Gas EIR Addendum Analysis Memorandum* and *Health Risk Assessment Memorandum*, both prepared by Kimley-Horn and Associates Inc. dated August 27, 2025, and included in Appendix A and Appendix B, respectively.

a) Conflict with or obstruct implementation of the applicable air quality plan?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined that the approved project is consistent with the MDAQMD Air AQMP, resulting in less than significant impacts. Similarly, the proposed project would be consistent with development in the area and applicable AQMP assumptions. The proposed project would result in six new jobs, which represents a minor increase when compared to the approved project, as described in Section 3.14, *Population and Housing*. The impacts of the proposed project with respect to AQMP consistency would be similar to those analyzed in the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. Like the approved project, the proposed project is under the jurisdiction of the MDAQMD and located within the Mojave Desert Air Basin (MDAB). The MDAB includes the desert portions of Los Angeles, Riverside, San Bernardino, and Kern counties. The MDAB is designated as a State and National non-attainment area for ozone and PM_{10} and as a State non-attainment area for particulate matter 2.5 microns in diameter or less ($PM_{2.5}$). An area is considered to be in non-attainment status when air pollution persistently exceeds the State or National AAQS.

CONSTRUCTION EMISSIONS

Proposed project construction activities include the demolition of an area of the existing parking lot, site preparation, grading, building construction, paving, and architectural coating. Maximum daily construction-generated emissions during each year construction activities occurred are summarized in Table 1, *Construction-Related Emissions***,** and compared with the construction emissions identified in the Certified EIR.

Table 1 Construction-Related Emissions

Source	Pollutants (lb./day)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Approved Project						
Total Construction Emissions: No Mitigation	18	275	120	25	794	NA
Total Construction Emissions: With Mitigation	18	275	120	25	401	NA
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**No**	**Yes**	**No**	**No**	**Yes**	**No**
Proposed Project						
Construction Year 2025[1]	1.69	23.6	17.8	0.08	13.7	4.23
Construction Year 2026	1.19	8.58	9.99	0.02	0.35	0.27
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Kimley-Horn 2025a (Appendix A).

Notes: ROG= reactive organic gases; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides; PM_{10} = particulate matter 10 microns in diameter or less; $PM_{2.5}$ = particulate matter 2.5 microns in diameter or less; NA = data not available

1 Construction emissions were conservatively modeled assuming a 2025 construction start year, consistent with worst-case emissions modeling assumptions. Construction is currently anticipated to begin in 2026.

It should be noted that modeling for the Certified EIR's construction emission analysis was based on the grading phase of the approved project and used the Urban Emission (URBEMIS) model 2002 to calculate emissions. The URBEMIS software was replaced with California Emission Estimator Model (CalEEMod) in February 2011. This analysis has been prepared using CalEEMod version 2022.1.1.29, the most recent version available at the time this analysis was prepared.

The construction emissions for the proposed project in Table 1 have been conservatively modeled without mitigation and with construction beginning in 2025 and concluding in 2026.[3]

[3] A conservative worst-case construction timeline has been modeled for analysis purposes. This involves modeling emissions at the earliest feasible date. Emissions in future years (i.e., due to a later construction start date or operational opening year) would be lower due to phased-in emissions standards, inspection and maintenance requirements, and fleet turnover. Project construction that occurs at a later date than what was modeled would result in lower emissions due to the use of more energy-efficient and cleaner burning construction vehicle fleet mix, pursuant to state regulations that require vehicle fleet operators to phase in less polluting heavy-duty equipment. As a result, project-related construction emissions would be lower than the impacts disclosed herein. For emissions modeling purposes, conservatively analyzing the emissions using an earlier construction start date provides for a worst-case analysis and full disclosure of potential air quality impacts, as required by CEQA.

As shown in Table 1, the maximum daily emissions would remain below the construction emissions calculated for the approved project and below MDAQMD's thresholds for all criteria pollutants. As a result, impacts associated with the construction of the proposed project would be less than significant and would not require any additional mitigation.

OPERATIONAL EMISSIONS

The main source of air pollutant emissions during operation of the approved and proposed projects is from motor vehicles. The Certified EIR determined that approved project would exceed operational emission thresholds for CO, VOC, NO_X, and PM_{10}. As shown in Appendix F, *Transportation Impact Analysis for the Proposed Walmart Fuel Project in the Town of Yucca Valley*, the proposed project would generate 826 daily trips, which is a net increase of 52 daily trips over the 774 trips anticipated for the fuel station in the Certified EIR.

Operational emissions associated with the approved project and proposed project are summarized in Table 2, *Operational-Related Emissions*. For the purposes of this analysis, the fuel station emissions under the approved project are compared to those of the proposed project. As shown in Table 2, the proposed project's operational emissions are below MDAQMD's criteria pollutant thresholds. However, operational emissions are slightly higher for PM_{10} emissions modeled for the fuel station when compared to the Certified EIR.

Although the proposed project would generate 52 more daily trips than the approved project, the emission rates for vehicles have decreased since the analysis for the Certified EIR was conducted in 2006, due to regulatory requirements, technology improvements, and fleet turnover. With the exception of PM_{10} and $PM_{2.5}$, emission levels would be lower than the previously evaluated fuel station. The proposed project would not change the results when combined with the total emissions of the approved project. Additionally, implementation of the TDM requirements under Mitigation Measure 4.3.2A would contribute to reducing vehicle miles traveled (VMT) under the proposed project. As a result, impacts associated with the construction of the proposed project would be less than significant and would not require any additional mitigation.

Table 2 Operational-Related Emissions

Source	Pollutants (lb./day)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Approved Project[1]						
Total Approved Project Operational Emissions	140	250	1,500	0.94	190	36
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**
Approved Project, Fuel Station Emissions Only[2]						
Fuel Station Operational Emissions	5.82	10.42	73.00	0.65	7.95	NA
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Proposed Project						
Fuel Station Emissions	4.92	5.97	51.6	0.12	9.92	2.58
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

Source: Kimley-Horn 2025a (Appendix A).

Notes: ROG= reactive organic gases; NOX = nitrogen oxides; CO = carbon monoxide; SOX = sulfur oxides; PM10 = particulate matter 10 microns in diameter or less; PM2.5 = particulate matter 2.5 microns in diameter or less; NA = data not available

1. Approved project emissions are from Certified EIR, Table 4.3.N, page 4.3-41.

2. Approved project fuel station emissions are from Air Quality Analysis, Appendix A: URBEMIS 2002 Model Printouts, page 7, "Mitigated Operational Emissions" (Certified EIR Appendix B).

SUMMARY

The Certified EIR identified construction and operational exceedances of MDAQMD thresholds for criteria air pollutants and concluded that the approved project would result in a significant and unavoidable impact. However, the proposed project would not exceed any MDAQMD thresholds and therefore would result in a less than significant impact. The Certified EIR identified Mitigation Measure 4.3.1A to reduce construction emissions of criteria pollutants, which would still be required as part of the proposed project to reduce cumulative impacts.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the

criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Expose sensitive receptors to substantial pollutant concentrations?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined that the exposure of sensitive receptors to harmful pollutant concentrations associated with the approved project would be less than significant. The Certified EIR analyzed CO emission hotspots from the vehicular traffic increase in local areas as well as diesel emissions from truck deliveries as a result of the approved project. The Certified EIR studied 22 intersections in the project vicinity and determined that none of the studied intersections would exceed State standards.

As shown in Table 2, CO emissions generated by the proposed project would be lower than those modeled for the approved project. Therefore, the development of the proposed project would not result in CO hotspots. The Certified EIR also determined that operational health risk impacts would be less than significant. Typical sources of carcinogenic and chronically hazardous toxic air contaminants (TACs) mostly include diesel particulate matter (DPM) from trucks and industrial manufacturing processes. As with the Certified EIR of the approved project, the proposed project would include delivery trucks that would generate DPM. The analysis for the Certified EIR determined that emissions would not exceed the 10 in one million carcinogenic health risk threshold or the 1.0 chronic health index threshold.

Although it is not discussed in the Certified EIR, TACs would also be generated by the fuel station component of the approved project. A Health Risk Assessment (HRA) was prepared to assess the DPM emissions from construction equipment used during construction of the proposed project and TAC (benzene) emissions from the operation of the fuel station, which were not included in the Certified EIR analysis (see Appendix B, *Health Risk Assessment Memorandum*). Of the toxic compounds emitted from gasoline stations, benzene, ethylbenzene, and naphthalene have cancer toxicity values. However, benzene is the TAC that drives the risk, accounting for 87 percent of cancer risk from gasoline vapors, and constitutes more than four times the weight in gasoline than ethylbenzene and naphthalene, respectively. Therefore, ethylbenzene and naphthalene have not been modeled and are instead considered significant if benzene emissions are significant. Benzene emissions associated with the proposed project were computed based on the maximum anticipated throughput of fuel (i.e., approximately 5 million gallons per year), using California Air Resources Board (CARB) emission factors for fuel-dispensing facilities and assuming that benzene makes up 0.46 percent of gasoline vapor.

CARB and MDAQMD have adopted regulations requiring all gasoline dispensing facilities to use vapor recovery systems to capture VOCs emitted during both delivery and refueling. These systems include Phase I equipment, capturing vapors from fuel tank deliveries, and Phase II equipment, recovering fuel vapors generated at the nozzle during vehicle fueling. This limits

exposure to toxic air contaminates like benzene, protecting workers and nearby communities. Facilities must use CARB-certified equipment, undergo regular performance testing (annual or semi-annual depending on throughput), maintain logs, and ensure all components (nozzles, hoses, etc.) meet stringent standards to reduce VOC emissions.

Table 3, *Cancer Risk Assessment Results*, shows that carcinogenic risk resulting from the proposed project would not exceed the 10 in one million threshold. The calculations conservatively assume no cleaner technology with lower emissions in future years. Table 3 shows that at the maximally exposed receptor, construction risk would be 0.15 in one million, and operational risk would be 0.393 in one million. Worst-case worker exposure would also not exceed the 10 in one million threshold. Therefore, carcinogenic hazards are calculated to be within acceptable limits, and impacts would be less than significant with respect to cancer risk.

Table 3 Cancer Risk Assessment Results

Receptors	Cancer Risk (per million) [1,2,3]				
	Construction	Operations			Construction and Operation Combined
		Trucks	Fuel Station	Total Operations	
Residences					
Approximately 440 feet northeast	0.13	0.003	0.39	0.393	0.523
Approximately 462 feet northwest	0.15	0.002	0.34	0.342	0.492
Significance Threshold (Risk per Million)	10	10	10	10	10
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**	**No**
Worker Exposure					
Approximately 118 feet east	0.09	0.003	0.80	0.803	0.893
Significance Threshold (Risk per Million)	10	10	10	10	10
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**	**No**

Source: Kimley-Horn 2025b (Appendix B)

Notes:

1. The reported risk is at the closest receptor (maximally exposed individual receptor [MEIR]) for each exposure category.

2. Risk from construction and trucks is from PM_{10}, and risk from the gas dispensing facility is benzene.

3. The maximum cancer risk is based on worst-case exposure durations for the project; 95th percentile breathing rates for less than two years old and 80th percentile for two years and older; and 30-, 25-, and 9-year averaging time for residences, workers, and students, respectively.

The significance thresholds for TAC exposure also require an evaluation of non-cancer risk stated in terms of a hazard index. Acute and chronic impacts of the proposed project are shown in Table 4, *Chronic and Acute Hazard Assessment Results*. An acute or chronic hazard index of 1.0 is considered individually significant. The hazard index is calculated by dividing the acute or chronic exposure by the reference exposure level. Table 4 shows that non-carcinogenic hazards are calculated to be within acceptable limits, resulting in a less than significant impact.

Table 4 Chronic and Acute Hazard Assessment Results

Emissions Sources	Chronic Hazard	Acute Hazard
Residential Receptors		
Construction	0.000256	N/A
Trucks	0.000001	N/A
Fuel Station	0.006269	0.016999
Threshold	1.0	1.0
Threshold Exceeded?	**No**	**No**
Worker Receptors		
Construction	0.001813	N/A
Trucks	0.000002	N/A
Fuel Station	0.011827	0.027863
Threshold	1.0	1.0
Threshold Exceeded?	**No**	**No**

Source: Kimley-Horn 2025b (Appendix B).

Notes: N/A = not applicable, acute health risk for DPM cannot be calculated

No new impacts relative to carcinogenic health risk or non-carcinogenic hazards evaluated in the Certified EIR would occur with the development of the proposed project. As described above, the proposed project's carcinogenic risk would not exceed the MDAQMD's threshold of 10 in one million and non-carcinogenic hazards are also below the acceptable limits. It should be noted that the Certified EIR did not analyze TAC emissions associated with the fuel station. However, consistent with CARB's *Gasoline Service Station Industrywide Risk Assessment Technical Guidance Manual* and *Gasoline Service Station Industrywide Risk Assessment Supplemental Policy Guidance Document*, these emissions have been included in this health risk analysis. As noted previously, even with these additional sources of TACs, the health risk remains below MDAQMD's thresholds.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The MDAQMD regulates odors through Rule 402 (Nuisance). Rule 402 prohibits the discharge from any source that cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. Typical land uses that generate odors include agriculture (farming and livestock), wastewater treatment plants, food processing plants, chemical plants, composting facilities, refineries, landfills, dairies, and fiberglass molding.

During construction-related activities, some odors (not substantial pollutant concentrations) that may be detected are those typical of construction vehicles (e.g. diesel exhaust from grading and construction equipment). These odors are a temporary short-term impact that is typical of construction projects and would disperse rapidly. The Certified EIR for the approved project determined that odors associated with the approved project would be less than significant. Consistent with the Certified EIR, the proposed project would not include any of the land uses that have been identified by the MDAQMD as odor sources. Therefore, the proposed project would not create objectionable odors.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and**,** therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.3.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following mitigation measures were taken directly from the Certified EIR and would be incorporated as part of the proposed project. Applicable mitigation measures from the Certified EIR have been incorporated into the proposed project's mitigation monitoring and reporting program. Mitigation Measure 4.3.2A was incorporated as part of the approved project and does not apply to the proposed project. Any modifications to these mitigation measures are shown in ~~strikethrough~~ for deleted text and <u>underline</u> for new, inserted text.

The Certified EIR Mitigation Measure 4.3.1A and 4.3.2A are reproduced below.

> **4.3.1A** Prior to issuance of grading permits, the construction contractor shall provide evidence showing that the following measures shall be implemented to reduce NO_X and

PM_{10} emissions from ground disturbance and VOC emissions from application of architectural coatings:

- The construction contractor shall select the construction equipment used on site based on low emission factors and high energy efficiency. The construction contractor shall ensure that construction grading plans include a statement that all construction equipment will be tuned and maintained in accordance with the manufacturer's specifications.
- The construction contractor shall demonstrate to the Town that construction activities shall make use of alternatively fueled equipment or catalyst-equipped diesel powered equipment to the extent such alternative fuels are available.
- The construction contractor shall ensure that construction grading plans include a statement that work crews will shut off equipment when not in use.
- The construction contractor shall time the construction activities so as not to interfere with peak hour traffic and to minimize obstruction of through traffic lanes adjacent to the site; if necessary, a flagperson shall be retained to maintain safety adjacent to existing roadways.
- The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew.
- The construction contractor shall demonstrate compliance with the fugitive dust suppression measures 403 a) through 403 e) contained in MDAQMD Rule 403.
- The construction contractor shall demonstrate compliance with the VOC suppression measures contained in MDAQMD 1113.
- The construction contractor shall apply non-toxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- The construction contractor shall water active sites at least twice daily (Locations where grading is to occur shall be thoroughly watered prior to earthmoving).
- The construction contractor shall provide evidence to the Town that all trucks hauling dirt, sand, soil, or maintain at least two feet of freeboard (vertical

space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code (CVC) section 23114.

- The construction contractor shall pave construction access roads at least 100 feet onto the site from the main road.
- The construction contractor shall promote the reduction of traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.

~~**4.3.2A** Prior to issuance of building permits, the project applicant shall provide evidence to the Town that applicable (as determined by the Town) Transportation Demand Management (TDM) measures are incorporated into the design of the proposed project. At a minimum, the TDM measures shall include: 1) Bicycle Storage – The project shall provide secure, adequate and convenient bicycle storage facilities for a minimum of 12 bicycles; 2) Information Center – A transportation information center shall be provided within the Wal-Mart store; and 3) preferential parking for employee carpool. The information center shall be located in a central location will good customer visibility. The information center shall provide information concerning public transportation options including route and schedules for local bus service.~~

3.4 BIOLOGICAL RESOURCES

3.4.1 Summary of Impacts Identified in the Approved Project

- **Special-Status Species.** The Certified EIR concluded that seven non-listed sensitive species had a low potential to occur on-site, including the loggerhead shrike, California horned lark, and San Diego black-tailed jackrabbit, which were observed on-site during surveys. The Certified EIR determined that construction activities could affect nesting birds protected under the Migratory Bird Treaty Act (MBTA). Therefore, Mitigation Measure 4.4.1C requires a pre-construction nesting bird survey if work occurs during the nesting season. Additionally, because burrowing owl was not detected but could occur, Mitigation Measures 4.4.1A through 4.4.1C were incorporated to ensure impacts would be reduced to less than significant levels.
- **Riparian Habitat or Other Sensitive Natural Communities.** The Certified EIR determined that no jurisdictional waters or riparian habitats were present on the site. However, the plant palette for the approved project included Mexican palo verde (*Parkinsonia aculeata*), a non-native species under review by the California Invasive Pest Plant Council (Cal-IPC) for potential invasiveness. Mitigation Measure 4.4.2A prohibits the use of this species in

landscaping. With implementation of this measure, impacts to sensitive natural communities were considered less than significant.

- **Jurisdictional Waters/Wetlands.** Field reconnaissance identified no wetlands, blue-line streams, or other jurisdictional features on the project site. Therefore, the Certified EIR determined that the approved project would result in no impact to jurisdictional waters or wetlands communities.

- **Wildlife Movement or Habitat Fragmentation.** The Certified EIR found that the project site is surrounded by existing development and roadways to the north, east, and west, which already act as barriers to wildlife movement. Although a small loss of Joshua tree woodland would occur, the project would not result in substantial habitat fragmentation or impede existing wildlife corridors. Therefore, impacts to wildlife movement were determined to be less than significant.

- **Local Policies and Ordinances.** The Certified EIR determined that the approved project would comply with the Town of Yucca Valley's Native Plant Protection and Management Ordinance, which requires permits for removal of native species such as Joshua tree, yucca, and California juniper, consistent with the California Desert Native Plants Act (Food and Agricultural Code Section 80001 et seq.). Therefore, impacts associated with compliance with local biological resource policies and ordinances were determined to be less than significant.

- **Habitat Conservation Plans.** The Certified EIR identified that the project site is not covered by any adopted habitat conservation plan, but lies within the Western Mojave Recovery Unit of the Desert Tortoise Recovery Plan, outside any designated management area. At the time of certification, the West Mojave Plan was in draft form and, if approved, could include the project area; however, the project site was not within any designated conservation area and would not conflict with the draft plan's provisions. Therefore, impacts related to habitat conservation plans were considered less than significant.

3.4.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	LTS/M	No	No	No	**Yes**
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?	LTS/M	No	No	No	**Yes**
c) Have a substantial adverse effect on state or federally protected	NI	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?					
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	LTS	No	No	No	**Yes**
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	LTS	No	No	No	**Yes**
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?	LTS	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation;
SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The project site is now fully developed and paved as part of the approved commercial center analyzed in the Certified EIR, and no remaining natural or undeveloped areas remain within the site boundaries. Accordingly, the site no longer provides suitable habitat for special-status species, burrowing owl, or other ground- or vegetation-dependent wildlife. Because the site is entirely developed, Mitigation Measures 4.4.1A (focused burrowing owl surveys) and 4.4.1B (avoidance and relocation procedures) are no longer applicable or necessary. However, consistent with the Certified EIR, Mitigation Measure 4.4.1C (protection of nesting birds pursuant to the Migratory Bird Treaty Act) remains applicable to ensure compliance with federal and state regulations in case of any nesting activity in ornamental trees or structures during construction. With implementation of Mitigation Measure 4.4.1C, potential impacts to special-status species would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area, and as with the Certified EIR, no potential jurisdictional waters or riparian habitat were identified on the proposed site. As identified in the Certified EIR of the approved project, the Town's plant palette calls for the planting of Mexican palo verde trees (*Parkinsonia aculeate*) which has the potential to affect natural sensitive communities. The proposed project would incorporate Mitigation Measure 4.4.2A, to exclude the Mexican palo verde trees from the proposed project landscaping plan. Therefore, impacts would be reduced to less than significant with mitigation, consistent with the approved project.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Have a substantial adverse effect on state or federally protected wetlands (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area, and consistent with the Certified EIR, no potential jurisdictional waters or riparian habitat were identified on the project site. Consistent with the Certified EIR, the proposed project would have no impact on state or federally protected wetlands.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The project site is now fully developed and consists entirely of paved parking areas and ornamental landscaping associated with the existing Walmart Supercenter. The site no longer supports Joshua tree woodland or other native vegetation identified in the Certified EIR. Surrounding development and roadways already preclude wildlife movement through the area, and the site no longer functions as part of a migratory corridor or wildlife nursery. As such, the proposed project would not interfere with wildlife movement or habitat connectivity. However, consistent with the Certified EIR, Mitigation Measure 4.4.1C (compliance with the Migratory Bird Treaty Act and California Fish and Game Code) remains applicable to ensure protection of potential nesting birds in ornamental trees or structures during the nesting season. With implementation of Mitigation Measure 4.4.1C, impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the

criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area and would be subject to the same local and regional policies and ordinances related to biological resources. Since the certification of the EIR for the approved project, protected plants on-site, such as the silver cholla, beavertail cactus, diamond cholla, and western Joshua tree, were relocated from the project site. The nearest western Joshua tree is more than 60 feet from the project site, and the site currently contains ornamental landscaping identified in Yucca Valley's plant palette. However, any project that involves ground-disturbing activities is required to submit a Native Plant Permit with photos in accordance with the Biological Resources Element of the General Plan and the Native Plant Protection and Management Ordinance to confirm the presence or absence of Joshua tree, Mojave yucca, Parry's nolina, California juniper, Our Lord's candle, or Pinon pine (*Pinus monophylla*) (Yucca Valley 2022). If any of these species are identified on the site during the Native Plant Permit process, the applicant would be required to submit a plot plan for approval in accordance with local policies. In addition, the Native Plant Protection and Management Ordinance requires compliance with provisions of the California Desert Native Plants Act. A plot plan must be approved by the Community Development Department identifying which trees or plants are authorized for removal or relocation.

The proposed project would adhere to the palette of plants prescribed in the Specific Plan for the proposed landscaping, in accordance with Policy 8 of the Biological Resources Element of the General Plan. Therefore, with adherence to local policies and ordinances, impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area.

As identified by the Certified EIR, the project site is not covered by any habitat conservation plans. The proposed project is not within a designated management area of the Desert Tortoise Recovery Plan (USFWS 2011). The Draft West Mojave Plan remains in progress (BLM 2025). The proposed project may be subject to provisions of the Plan (e.g., payment of fees) upon adoption of the plan; however, there are currently no habitat mitigation fees established. Therefore, impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.4.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following mitigation measures were taken directly from the Certified EIR and would be incorporated as part of the proposed project. Applicable mitigation measures from the Certified EIR have been incorporated into the proposed project's mitigation monitoring and reporting program. The Certified EIR included Mitigation Measures 4.4.1A, 4.4.1B, 4.4.1C, 4.4.2A, 4.4.3A, and 4.4.3B. However, because the project site has since been fully developed as a paved commercial parking lot, Mitigation Measures 4.4.1A and 4.4.1B (burrowing owl surveys and relocation procedures) and 4.4.3A and 4.4.3B (on-site habitat restoration) are no longer applicable. Mitigation Measure 4.4.1C (protection of nesting birds under the MBTA and California Fish and Game Code) remains applicable to ensure compliance if active nests are present during construction or demolition activities. Mitigation Measure 4.4.2A (protection or relocation of Joshua trees and other native plants) remains included for reference and consistency with the Certified EIR, although no Joshua trees or native vegetation currently exist on the developed project site. Any modifications to these mitigation measures are shown in ~~strikethrough~~ for deleted text and <u>underline</u> for new, inserted text.

> ~~**4.4.1A** Prior to site grading, a focused survey for the burrowing owl shall be conducted on the project site by a qualified biologist to determine on-site presence/absence of this species. The focused burrowing owl survey shall be conducted during the appropriate breeding season (February 1 to August 31) and/or within 30 days prior to the commencement of grading activities. If the survey determines that the burrowing owl is present, Mitigation Measure 4.4.1B shall apply. Conversely, if the burrowing owl is absent from the project site, no further mitigation is required.~~
>
> ~~**4.4.1B** Any burrowing owls identified during on-site focused surveys shall be relocated by a qualified biologist prior to the commencement of grading activities. The relocation~~

~~of any specimen shall be conducted per applicable CDFG and/or USFWS procedures. Relocation of on-site burrowing owls shall not be permitted during the nesting season for this species.~~

4.4.1C In accordance with the MBTA, the removal of vegetation or other potential nesting habitat shall be conducted outside of the avian nesting season (February through August). If construction occurs during the avian nesting season, a pre-construction nesting bird survey shall be conducted seven days prior to any ground disturbing activities. If birds are found to be nesting inside, or within 250 feet (500 feet for raptors) of the impact area, construction will need to be postponed until it is determined by a qualified biologist that the nest is no longer active.

4.4.2A Exclude the Mexican Palo Verde tree (*Parkinsonia aculeate*) from the plant palette proposed in the landscaping plan.

~~**4.4.3A** In compliance with the USFWS 1992 Field Survey Protocol for desert tortoise, a preconstruction clearance survey is required in addition to the focused protocol survey. A preconstruction clearance survey shall be conducted within 30 days prior to any ground disturbing activities. If the clearance survey is positive, incidental take permits will be required from the USFWS and the CDFG prior to any ground disturbing activities. The permits would stipulate required actions such as relocation of the tortoises, installation of a tortoise proof fence, etc.~~

~~**4.4.3B** Pursuant to the USFWS 1992 Field Survey Protocol, focused presence/absence surveys, which must be conducted during the activity period of the tortoise between March 25 and May 31, are valid for one year. Therefore, if construction is not initiated prior to March 25, 2007, another focused protocol survey will be required between March 25 and May 31 to determine presence/absence of desert tortoise within the project site impact area. If the focused protocol survey is positive, incidental take permits will be required from the USFWS and the CDFG.~~

3.5 CULTURAL RESOURCES

3.5.1 Summary of Impacts Identified in the Approved Project

- **Historical Resources.** The Certified EIR identified that the former historic SR-62 was located along the northern boundary of the project area. However, regular maintenance, resurfacing, and widening to a four-lane thoroughfare have obliterated any trace of the original highway alignment. The Certified EIR concluded that no further investigation or monitoring was warranted for SR-62 and that no other historical structures or features were present on-site. The EIR noted, however, that buried historical resources could potentially be discovered during grading or construction. Implementation of Mitigation Measure 4.5.1A

requires procedures for the evaluation and protection of any inadvertently discovered historical resources, ensuring impacts would be less than significant.

- **Archaeological Resources**. The Certified EIR reported that no archaeological resources were identified during the literature search or field survey. Nonetheless, grading could expose previously unknown buried archaeological resources. The Certified EIR required implementation of Mitigation Measures 4.5.2A and 4.5.2B, which mandate archaeological monitoring during ground disturbance and appropriate treatment of discovered resources. With these measures in place, impacts related to archaeological resources were determined to be less than significant.

- **Human Remains.** The Certified EIR found that no cemeteries or known human remains exist within the project site. However, because ground-disturbing activities could inadvertently uncover unknown human remains, compliance with State Health and Safety Code Section 7050.5 and Public Resources Code Section 5097.98 is required. These statutes mandate immediate cessation of work, notification of the San Bernardino County Coroner, and, if applicable, consultation with the NAHC and the Most Likely Descendant to determine appropriate treatment. Adherence to these existing regulations ensured impacts would be less than significant.

3.5.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?	LTS/M	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?	LTS/M	No	No	No	**Yes**
c) Disturb any human remains, including those interred outside of dedicated cemeteries?	LTS	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Cause a substantial adverse change in the significance of a historical resource pursuant to § 15064.5?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area. The project site is bordered by SR-62 to the north; however, as identified in the Certified EIR, regular maintenance, resurfacing, and widening to a four-lane thoroughfare has obliterated any trace of the historic portions of Highway 62 within or adjacent to the project site. Additionally, the project site is not listed in the California Register of Historical Resources, National Register of Historic Places, California State Historical Landmarks, or Points of Historical Interest or in a local register of historical resources (OHP 2025, NPS 2025). However, the proposed project could result in the discovery of unknown buried historical resources as a result of excavations needed for the USTs. Mitigation Measure 4.5.1A from the Certified EIR would ensure potential impacts remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the

criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to § 15064.5?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164.

The proposed project would be within the boundaries of the approved Specific Plan area. As such, the Certified EIR findings would apply to the proposed project. Although no on-site archaeological resources were identified during the literature search or field survey, the potential for discovery of unknown buried archaeological resources, including tribal cultural resources, remains during grading or construction. Mitigation Measures 4.5.2A, and 4.5.2B from the Certified EIR would reduce impacts to a less than significant level.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Disturb any human remains, including those interred outside of dedicated cemeteries?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164.
As discussed in the Certified EIR, no cemetery or human remains have been identified on-site. Since certification of the EIR, the project site has since been developed with the Walmart Supercenter parking lot; therefore, the likelihood of discovering unknown human remains is low. Nevertheless, earthwork activities associated with the construction of the proposed project still have the potential to unearth unknown human remains. Adherence to state and federal policies including Section 7050.5 of the State's Health and Safety Code, and Public Resources Code Section 5097.98 would require halting work, notification of the County Coroner and the Native American Heritage Commission, and consultation with the most likely descendent as needed. Compliance with these existing requirements would ensure impacts remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.5.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following mitigation measures were taken directly from the Certified EIR and would be incorporated as part of the proposed project. These mitigation measures have been incorporated into the proposed project's mitigation monitoring and reporting program. Mitigation Measure 4.5.2.B has been modified as applicable to reflect minor changes generated by the SB 18 consultation process for the proposed project. Any modifications to these mitigation measures are shown in ~~strikethrough~~ for deleted text and underline for new, inserted text.

The Certified EIR Mitigation Measures 4.5.1A, 4.5.2A, and 4.5.2B are reproduced below.

> **4.5.1A** In the event a historical resource is uncovered, discovered, or otherwise detected or observed during the course of grading or construction of the project, ground-disturbing activities within 50 feet of the find shall cease until the nature and extent of the find can be evaluated by a qualified historian (meeting Secretary of Interior Standards) If any such resource is uncovered during the course of project-related grading or construction, appropriate mitigation measures, recordation, and removal procedures shall be required prior to any resumption of work in the affected area of the project.
>
> **4.5.2A** Prior to grading activities, an archeological resource monitoring plan shall be submitted for review and approved by the Town. The archeological resource monitoring plan shall require monitoring of the upper ten (10) feet of topsoil. If after 100 percent of soils to five (5) feet below original grade has been monitored and no archaeological resources have been identified, the Project Archaeologist may discontinue monitoring. In the event an archaeological resource is uncovered, discovered, or otherwise detected or observed during the course of grading or construction of the project, ground-disturbing activities within 50 feet of the find shall cease until the nature and extent of the find can be evaluated by a qualified archaeologist (meeting Secretary of Interior Standards). If any such resource uncovered during the course of project-related grading or construction, appropriate mitigation measures, recordation, and removal procedures shall be required prior to any resumption of work in the affected area of the project.
>
> **4.5.2B** ~~In the event a Native American cultural resource is uncovered, discovered, or otherwise detected or observed during the course of grading or construction of the project,~~ Prior to the start of construction, ~~the~~ one tribal monitor from the Consulting Tribe (either Yuhaaviatam of San Manuel Nation, Morongo Band of Mission Indians,

Agua Caliente Band of Cahuilla Indians, or Twenty-nine Nine Palms Band of Mission Indians) shall be~~,~~ hired by the project applicant~~,~~ to ~~shall contact the Morongo Band of Mission Indians ("Tribe"). If requested by the Tribe, the monitor, at the applicant's discretion, shall~~ provide monitoring during ground disturbing construction activities, and if needed, consult on the discovery and its disposition.

3.6 ENERGY

3.6.1 Summary of Impacts Identified in the Approved Project

The Certified EIR did not address energy impacts as an Appendix G checklist topic because it was drafted and adopted before the Natural Resources Agency revised Appendix G of the CEQA Guidelines to add energy as a distinct Appendix G checklist topic consistent with Appendix F of the CEQA Guidelines.

The Certified EIR discussed energy consumption with respect to significant irreversible environmental effects, noting that while the approved project would consume electricity and natural gas resources, the approved project would not result in the loss of availability of these resources. The Certified EIR also evaluated the approved project's consistency applicable greenhouse gas emissions reductions strategies including the California Building Energy Efficiency Standards and Appliance Energy Efficiency Standards. This analysis noted that mitigation measures incorporated to reduce air quality impacts, Mitigation Measures 4.3.1A and 4.3.2A, would also reduce energy consumption during construction and operation of the approved project.

3.6.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	N/A	No	No	No	**Yes**
b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	N/A	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

The analysis in this section is based in part on the *Air Quality and Greenhouse Gas EIR Addendum Analysis Memorandum* prepared by Kimley-Horn and Associates Inc. on August 27, 2025, and included in Appendix A.

a) Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164.

CONSTRUCTION

As with the development pursuant to the Certified EIR, construction of the proposed project would consume energy in the short term through electricity use, construction vehicles and equipment fuel consumption, and bound energy in construction materials (e.g., asphalt, steel, concrete, pipes, lumber, glass).

Electrical Energy

The majority of construction equipment would be gas or diesel powered, and electricity would not be used to power most of the construction equipment. Electricity use during construction would vary during different phases of construction. Later construction phases could result in the use of electricity-powered equipment for interior construction and architectural coatings. It is anticipated that the majority of electric-powered construction equipment would be hand tools (e.g., power drills, table saws) and lighting, which would result in minimal electricity usage during construction activities. Therefore, project-related construction activities would not result in wasteful or unnecessary electricity demands, and impacts would be less than significant. Furthermore, development under the proposed project would not introduce new types of construction processes or activities compared to what was previously considered in the Certified EIR. Therefore, the proposed project would not result in a significant impact related to electricity use during the construction phase.

Natural Gas Energy

It is not anticipated that construction equipment used for the proposed project would be powered by natural gas, and no natural gas demand is anticipated during construction. Furthermore, development under the proposed project would not introduce new types of construction processes or activities compared to what was previously considered in the Certified EIR. Therefore, the proposed project would not result in a significant impact related to natural gas usage during the construction phase.

Transportation Energy

Transportation energy use depends on the type and number of trips, vehicle miles traveled, fuel efficiency of vehicles, and travel mode. Transportation energy use during construction would come from the transport and use of construction equipment, delivery vehicles and haul trucks, and construction employee vehicles that would use diesel fuel and/or gasoline. It is anticipated that the majority of off-road construction equipment, such as those used during grading, would be gas or diesel powered.

The use of energy resources by vehicles and equipment would fluctuate according to the phase of construction. In addition, construction equipment would cease operating upon completion of proposed project construction. Thus, impacts related to transportation energy use during

construction would be temporary and would not require expanded energy supplies or the construction of new infrastructure.

Furthermore, to limit wasteful and unnecessary energy consumption, the construction contractors would minimize nonessential idling of construction equipment during construction, in accordance with the California Code of Regulations, Title 13, Article 4.8, Chapter 9, Section 2449. Construction trips would also not result in unnecessary use of energy since the project site is centrally located and is served by numerous regional freeway systems (e.g., SR-62) that provide the most direct routes from various areas of the region.

Moreover, development under the proposed project would not introduce new types of construction processes or activities compared to what was previously considered in the Certified EIR. No unusual project characteristics would necessitate the use of construction equipment that would be less energy efficient than for development pursuant to the approved project. Therefore, it is expected that construction fuel consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than the energy required for development contemplated in the Certified EIR.

OPERATION

Operation of the proposed project would generate similar demand for energy when compared to the approved project. Operational energy sources include building electricity and natural gas associated with the convenience store building and lighting at the fuel station, in addition to transportation energy demand associated with vehicles traveling to and from the site. As a fuel station project, the proposed project would involve expansion of an approved fuel station at the project site to support the sale of transportation fuels and would not directly result in wasteful or unnecessary fuel consumption. The proposed project would meet existing and forecast demand for additional fuel and would not induce additional demand. Moreover, additional demand or consumption of energy resources does not mean the consumption or demand thereof would be inefficiency, wasteful, or unnecessary. Fuel consumption resulting from operation of the proposed project that is under the control of the project proponent would be limited to company-sponsored vehicle trips (e.g., contracted deliveries) and equipment use on-site, which would be necessary for the operation of the proposed project. Therefore, as discussed in greater detail below, operation of the proposed project would not be any more inefficient, wasteful, or unnecessary than the fuel consumption required for development contemplated in the Certified EIR.

Building Energy Use

The electricity and natural gas consumption associated with the building and lighting fixtures under the proposed project are shown in Table 5, *Operation-Related Energy Consumption*. Because energy use under the approved project was not quantified in the Certified EIR, this analysis conservatively accounts for the total increase in electricity and natural gas consumption

associated with the uses under the proposed project. Energy use from the same uses under the approved project would be similar to that of the proposed project.

Table 5 Operation-Related Energy Consumption

	Electricity (kWh/year)	Natural Gas (KBTU/year)
Convenience Store with Gas Station	50,223	26,265
Parking Lot	44,767	0
TOTAL	**94,990**	**26,265**

Source: Kimley-Horn 2025a (Appendix A)

Notes: kWh = kilowatt-hours; KBTU = kilo-British Thermal Units

Electricity and natural gas use are based on the proposed project's CalEEMod default energy consumption shown in Appendix A.

While the proposed project would generate energy demand at the site, it would still be required to comply with the latest Building Energy Efficiency Standards and CALGreen standards. In addition to the proposed building energy efficiency, Southern California Edison (SCE) is required to comply with the state's renewable portfolios standard (RPS), which mandates utilities to procure a certain proportion of electricity from eligible renewable and carbon-free sources and increasing the proportion through the coming years with an ultimate procurement requirement of 100 percent by 2045. The RPS requirements would support use of electricity by the proposed project that is generated from renewable or carbon-free sources. Energy consumption for the on-site uses would also be similar to that of the approved project. Therefore, it is expected that building and lighting energy consumption associated with the proposed project would not be any more inefficient, wasteful, or unnecessary than the energy required for development contemplated in the Certified EIR.

Transportation Fuel Use

The proposed project would consume transportation energy during operations from the use of motor vehicles associated with employees and patrons of the proposed project. The proposed project would generate a net increase in 52 average daily vehicle trips over the approved project (see Appendix F). To provide a conservative estimate of transportation fuel consumption under the proposed project, the fuel associated with the project's total increase of 826 trips is shown in Table 6, *Annual Transportation Energy Fuel Consumption*.

Table 6 Annual Transportation Energy Fuel Consumption

Fuel Type	Proposed Project
Gasoline	
VMT	4,451,855
Gallons	200,543
Miles per Gallon	22.20
Diesel	
VMT	263,608
Gallons	25,610
Miles per Gallon	10.29
Compressed Natural Gas	
VMT	6,792
Gallons	897
Miles per Gallon	7.57
Electricity	
VMT	354,777
kWh	124,652
Miles per kWh	2.85
Total VMT	**5,077,032**

Source: EMFAC 2025 (v.2.0.0); Kimley-Horn 2025a, 2025d.

Notes: CalEEMod default fleet mix from Appendix A, project trip estimate from Appendix F; EMFAC emissions inventory used year 2025, consistent with the operational year used for the AQ/GHG modeling in Appendix A.

Fuel efficiency of vehicles after full buildout would improve on average compared to vehicle fuel efficiencies experienced under existing conditions, thereby resulting in a lower per capita fuel consumption, assuming travel distances, travel modes, and trip rates remain the same. The improvement in fuel efficiency would be attributable to the statewide fuel reduction strategies and regulatory compliances (e.g., Corporate Average Fuel Economy [CAFE] standards), resulting in new cars that are more fuel efficient and the attrition of older, less fuel-efficient vehicles. The CAFE standards are not directly applicable to land use development projects, but to car manufacturers. Thus, the drivers do not have direct control in determining the fuel efficiency of vehicles manufactured and that are made available. However, compliance with the CAFE standards by car manufacturers would ensure that vehicles produced in future years have greater fuel efficiency and would generally result in an overall benefit of reducing fuel usage by providing more fuel-efficient vehicle options to consumers. Last, because electricity consumed in California is required to meet the increasing renewable energy mix requirements under the State's RPS and accelerated by SB 1020, greater and greater proportions of electricity consumed for transportation energy demand envisioned under the proposed project would be generated from renewable energy sources rather than fossil fuels through 2045.

Furthermore, the proposed project's net increase of 52 trips would result in transportation fuel consumption similar to that of the proposed project. Overall, project operations would not result in excessive and wasteful vehicle trips and VMT, nor excess and wasteful vehicle energy consumption compared to the approved project.

SUMMARY

Energy use under the proposed project would be similar to that of the approved project. Both the proposed project and approved project include a fuel station land use, the construction and operation of which would result in similar electricity and natural gas consumption on the site. While the proposed project would increase trips to the project site when compared to the approved project, this approximately 7 percent net increase in trips associated with the fuel station/convenience store would result in similar a similar net increase fuel usage. Therefore, when compared to the approved project, the proposed project would not increase impacts with respect to unnecessary, wasteful, or inefficient energy consumption.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would be required to adhere to federal, State, and local requirements for energy efficiency, including the California Energy Code Building Energy Efficiency Standards (California Code of Regulations [CCR] Title 24, Part 6) and the CALGreen Code (24 CCR Part 11). Building energy efficiency standards establish minimum efficiency standards related to various building features, including appliances, water and space heating and cooling equipment, building insulation and roofing, and lighting. Compliance with Building Energy Efficiency Standards and CALGreen requirements would help to significantly reduce energy usage associated with the proposed project.

CALIFORNIA RENEWABLES PORTFOLIO STANDARD PROGRAM

The State's electricity grid is transitioning to renewable energy under California's RPS Program. Eligible renewable sources under the RPS include wind, small hydropower, solar, geothermal, biomass, and biogas. The RPS goals have been updated since adoption of SB 1078 in 2002. In general, California has RPS requirements of 50 percent renewable energy by 2026 (SB 100), 60 percent by 2030 (SB 100), 90 percent by 2035 (SB 1020), and 100 percent carbon free by 2045 (SB 100 and SB 1020). The statewide RPS goal is not directly applicable to individual

development projects but to utilities and energy providers such as SCE, which is the utility that would provide the entirety of the electricity needs for the proposed project. SCE's compliance with the RPS goals would support the State in meeting its objective in transitioning to renewable energy.

The statewide RPS goal is not directly applicable to individual development projects, but to utilities and energy providers such as SCE, which is the utility that would provide all of the electricity needs for the Proposed Project. Compliance of SCE in meeting the RPS goals would ensure the State in meeting its objective in transitioning to renewable energy. Similar to the approved project, the proposed project would be subject to Building Energy Efficiency Standards and CALGreen requirements. The increase in fuel pumps under the proposed project would not result in new or increase the severity of impacts as it pertains to consistency with renewable energy or energy efficiency plans compared to the approved project.

No changes proposed by the proposed project compared to the approved project would result in any new or substantially more severe significant impacts with respect to obstructing a state or local plan for renewable energy or energy efficiency. Therefore, preparation of a supplemental or subsequent EIR is not required by CEQA.

3.6.3 Adopted Mitigation Measures Applicable to the Proposed Project

The Certified EIR did not analyze energy impacts pursuant to the CEQA Guidelines Appendix G checklist questions. Therefore, the Certified EIR did not incorporate any mitigation measures to reduce impacts related to energy. As discussed above, energy usage of the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

3.7 Geology and Soils

3.7.1 Summary of Impacts Identified in the Approved Project

- **Rupture of a Known Earthquake Fault**. Although the Town of Yucca Valley is in a seismically active region, the project site is not located within an Alquist–Priolo Earthquake Fault Zone and no known faults cross the site. The Certified EIR found the potential for on-site ground rupture to be very low and impacts less than significant.

- **Strong Seismic Ground Shaking**. Because the site is in a seismically active area, the Certified EIR determined potentially significant impacts from strong ground shaking; with implementation of Mitigation Measure 4.6.1A (CBC/UBC-consistent seismic design and geotechnical recommendations), impacts would be reduced to less than significant.

- **Seismic-Related Ground Failure, Including Liquefaction**. Based on subsurface conditions and groundwater depth, the Certified EIR determined the liquefaction potential to be very low and impacts less than significant.

- **Landslides**. The Certified EIR found the site is not in mountainous or hilly terrain and the potential for landslides is very low; impacts are less than significant.

- **Soil Erosion or Loss of Topsoil**. Because construction would disturb more than one acre, the Certified EIR required compliance with National Pollutant Discharge Elimination System (NPDES) / Construction General Permit (CGP) and a SWPPP with Best Management Practices (BMPs), plus MDAQMD Rules 402/403 for dust control; with these measures, erosion impacts would be less than significant.

- **Unstable Soils (landslide, lateral spreading, subsidence, liquefaction, collapse).** The Certified EIR identified potential settlement/instability as potentially significant; implementation of Mitigation Measure 4.6.2A (site-specific geotechnical design and earthwork measures such as over-excavation and recompaction) and Mitigation Measure 4.6.3A would reduce impacts to less than significant.

- **Expansive Soils**. On-site Hanford coarse sandy loam exhibits low shrink-swell potential; the Certified EIR determined expansive-soil impacts to be less than significant (no specific mitigation required).

- **Septic/Alternative Wastewater Systems**. The approved project does not include septic or alternative wastewater disposal systems; the Certified EIR found no impact.

- **Paleontological Resources / Unique Geologic Feature.** The Certified EIR evaluates this topic in the cultural resources section, consistent with the Appendix G guidelines at the time. The Certified EIR determined that the project site is underlain by coarse late Pleistocene sediments, which are generally unsuitable for preserving significant fossils. Although the site lies within a region known for high paleontological sensitivity, the field survey conducted by a qualified paleontologist concluded that the on-site materials were too coarse to contain well-preserved specimens. Nevertheless, because fine-grained sediments of similar age elsewhere in the region have yielded fossils, impacts were considered potentially significant. Implementation of Mitigation Measure 4.5.2A, which requires paleontological monitoring and recovery if resources are encountered, reduced impacts to less than significant.

3.7.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:					
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.	LTS	No	No	No	**Yes**
ii) Strong seismic ground shaking?	LTS/M	No	No	No	**Yes**
iii) Seismic-related ground failure, including liquefaction?	LTS	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
iv) Landslides?	LTS	No	No	No	**Yes**
b) Result in substantial soil erosion or the loss of topsoil?	LTS	No	No	No	**Yes**
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?	LTS/M	No	No	No	**Yes**
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?	LTS	No	No	No	**Yes**
e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?	NI	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	N/A	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

The analysis in this section is based in part on the *Geotechnical Engineering Report* prepared by Terracon, dated May 7, 2024, and included in Appendix C.

a) Directly or indirectly cause potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map, issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42.

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area. Based on a review of the State Fault Hazard Maps, the nearest Alquist–Priolo Earthquake Fault Zone is adjacent to, but does not include, the project site (Appendix C). While the larger parcel boundaries extend near the mapped fault zone, the project site and its disturbance footprint are entirely outside the zone boundary. No active or potentially active faults are known to cross the project site. Therefore, impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR

under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

ii) Strong seismic ground shaking?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As discussed in the Certified EIR, the project site is located in southern California, a seismically active region (Appendix C). The type and magnitude of seismic hazards affecting the site are dependent on the distance to causative faults, the intensity, and the magnitude of the seismic event. As calculated using the USGS Unified Hazard Tool, the Eureka Peak fault, which is considered to have the most significant effect on the site from a design standpoint, has a maximum credible earthquake magnitude of 6.47 and is located approximately 1.37 miles from the site. Probabilistic seismic hazard results from the USGS tool indicate that seismic shaking at the project site is predominantly associated with events of approximately magnitude 6.7 from regional fault sources. Although the project site and its area of disturbance are not located within an Alquist-Priolo Earthquake Fault, the project site would be subject to seismic ground shaking.

The proposed project would be required to comply with the seismic design parameters of the California Building Code (CBC), which regulates all building and construction projects and implements a minimum standard for building design and construction that includes specific requirements for seismic safety, evacuation, foundations, retaining walls, and site demolition. Additionally, the proposed project would adhere to the construction and design parameters as identified by the Geotechnical Report which includes but is not limited to, earthwork recommendations, foundation design recommendations, floor slab and pavement design parameters (Appendix C). Implementation of Mitigation Measure 4.6.1A of the Certified EIR, which has been modified for the proposed project, would continue to require adherence to the recommendations contained in the geotechnical investigation and adherence to the Town/State development code would reduce potential impacts associated with damage to structures caused by earthquake to a less than significant level.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

iii) Seismic-related ground failure, including liquefaction?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area. Based on a review of the California Geological Survey map, the project site has not been mapped for liquefaction hazard (Appendix C), and according to the San

Bernadino County Geologic Maps, the site's potential for liquefaction hazard is low. Furthermore, based on the anticipated depth to groundwater, liquefaction hazard potential at the site is considered low. The proposed project would be designed and constructed to withstand liquefaction potential consistent with CBC and the geotechnical engineering report recommendations, thereby reducing impacts to less than significant, consistent with the approved project.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

iv) Landslides?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved project site, and as such, the proposed project would remain consistent with the Certified EIR's findings. As with the Certified EIR, no landslides have been documented in the Town, and the potential for landslides at the project site is very low because of site is flat . Therefore, with adherence with the CBC and the geotechnical engineering report recommendations, impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Result in substantial soil erosion or the loss of topsoil?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. Erosion is a normal and inevitable geologic process whereby earthen materials are loosened, worn away, decomposed, or dissolved and removed from one place and transported to another. The project site contains relatively flat terrain, which decreases the project's potential to accelerate erosion. Implementation of the proposed project would require limited earthwork which include grading for proper base and slope for the fuel station and convenience store, and utility trenching.

As with the Certified EIR, because the proposed project encompasses an area of more than one acre, the proposed project would be subject to the NPDES permit requirements. These include the preparation of a SWPPP and implementation of best management practices that would describe minimum and advanced construction best management practices for erosion control at the site. Additionally, adherence with existing state and local laws regulating construction

activities would minimize soil erosion. Therefore, the proposed project would not result in substantial soil erosion or loss of topsoil, and impacts would remain less than significant impact.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction or collapse?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The project site is flat and, as discussed above in Impact 3.7 (a)(iv), has low susceptibility to landslides. The geotechnical engineering report concluded that the project site has a low liquefaction hazard (Appendix C). The proposed project would be designed consistent with the CBC and the geotechnical engineering report recommendations. Compliance with CBC and recommendations from the geotechnical engineering report would ensure that the proposed project would not result in or contribute to on- or off-site liquefaction and landslides.

The proposed project would excavate, scarify, moisture condition, and recompact on-site soils in areas to be developed, consistent with recommendations in the geotechnical investigation (Appendix C). With soil recompaction and adherence to the CBC and geotechnical recommendations, the potential for seismic settlement or lateral spreading would be minimal and not expected to result in significant impacts.

The proposed project would remain within the boundaries of the approved Specific Plan area, and as such, the proposed project would remain consistent with the Certified EIR's findings that no ground subsidence has occurred in the vicinity of the project site. Thus, impacts would remain less than significant.

Based on the results of a consolidation test, soils encountered on the site at depths of approximately 2.5 to 5 feet below ground surface exhibit negligible collapse potential under normal footing loads (Appendix C). Implementation of modified Mitigation Measure 4.6.1A of the Certified EIR, which replaces Mitigation Measure 4.6.3A of the Certified EIR, would reduce impacts associated with soil collapse to a less than significant level.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial direct or indirect risks to life or property?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area. As such, the proposed project would remain consistent with the approved project's findings that the site soils be subject to potentially significant impact associated with expansive soils. Implementation of modified Mitigation Measure 4.6.1A of the Certified EIR, which replaces Mitigation Measure 4.6.3A of the Certified EIR, would reduce impacts associated with expansive soils to a less than significant level.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

e) Have soils incapable of adequately supporting the use of septic tanks or alternative wastewater disposal systems where sewers are not available for the disposal of wastewater?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As with the approved project, the proposed project does not propose the use of septic tanks or alternative wastewater disposal systems. No impacts related to septic systems would occur.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

f) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR of the approved project discussed paleontological resources in Section 3.5, *Cultural Resources*, and concluded that the project site's sediments are too coarse to preserve significant paleontological specimens.

Additionally, the proposed project would be developed on the existing Walmart Supercenter parking lot. Although paleontological resources are not expected to be encountered during project construction, it is possible that unknown paleontological resources could be discovered during grading activities. Implementation of Mitigation Measure 4.5.3A from the Certified EIR

would ensure that impacts to unknown paleontological resources are properly identified and protected. Further, the project site is fully developed and does not include any unique geologic features. Therefore, impacts would remain less than significant as previously, consistent with the conclusion of the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.7.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following mitigation measures were taken directly from the Certified EIR and would be incorporated as part of the proposed project. Applicable mitigation measures from the Certified EIR have been incorporated into the proposed project's mitigation monitoring and reporting program. The Certified EIR identified Mitigation Measures 4.5.3A, 4.6.1A, 4.6.2A, and 4.6.3A. Mitigation Measures 4.5.3A and 4.6.1A remain applicable to ensure impacts related to strong groundshaking and unstable soils are reduced to less than significant. Mitigation Measures 4.6.2A and 4.6.3A were previously incorporated into the approved project but have been removed from the proposed project's MMRP because they are duplicative of Mitigation Measure 4.6.1A, which already addresses those requirements.

Any modifications to these mitigation measures are shown in ~~strikethrough~~ for deleted text and <u>underline</u> for new, inserted text

The Certified EIR Mitigation Measures 4.5.3A and 4.6.1A are reproduced below.

> **4.5.3A** Prior to grading activities, a paleontological resource monitoring plan shall be submitted for review and approved by the Town. The paleontological resource monitoring plan shall require monitoring of the upper ten (10) feet of topsoil. If after 100 percent of soils to five (5) feet below original grade has been monitored and no paleontological resources have been identified, the Project Paleontologist may discontinue monitoring. In the event that a paleontological resource is uncovered, discovered, or otherwise detected or observed during the course of grading or construction of the project, ground-disturbing activities within 50 feet of the find shall cease until the nature and extent of the find can be evaluated by a qualified paleontologist (meeting Secretary of Interior Standards). If any such resource uncovered during the course of project-related grading or construction, appropriate mitigation

measures, recordation, and removal procedures shall be required prior to any resumption of work in the affected area of the project.

4.6.1A The design and construction of the proposed on-site uses shall adhere to the recommendations identified in the geotechnical investigation prepared for the proposed project; ~~engineering standards detailed in the UBC for development within Seismic Zone 4;~~ and/or other design requirements established by the Town. The geotechnical investigation prepared for this project identifies the potential for some degree of structural damage during seismic shaking, but the risk can be reduced through recommendations contained in the geotechnical investigation. These design and construction measures, from the geotechnical investigation, shall include but are not limited to the following~~)~~:

- The proposed structures may be supported on shallow spread footing foundations bearing on engineered fill, or on drilled shafts. Engineered fill should extend to a minimum depth of 1 feet below the bottom of foundations, or the depth of undocumented fill, or 3 feet below existing grades, whichever is greater.
- The excavation should be widened laterally at least 8 inches for each 12 inches of fill placed below footing base elevations.
- Grading for the proposed station should incorporate the limits of the overexcavation plus a lateral distance of 1 feet beyond the outside edge of perimeter footings, where possible. Overexcavation and replacement is not required for support of drilled shaft foundations.
- It is recommend that the underground storage tanks be over-excavated by about 2 feet in plan area to provide adequate access around the excavation for underground storage tanks construction. The walls of the proposed excavation should be shored or sloped in conformance with OSHA excavation and trench safety standards. If any excavation is extended to a depth of more than 20 feet, it will be necessary to have the side slopes designed by a professional engineer.
- Onsite soils consist of cohesionless sandy soils. Therefore, OSHA Soil Type C should be utilized for sloping considerations and on-site soils shall be sloped at a minimum of 1.5H:1V.
- In areas where sidewalks or paving do not immediately adjoin the structure, it is recommend that protective slopes be provided with a minimum grade of approximately 5 percent for at least 10 feet from perimeter walls.
- To reduce the potential for damage caused by movement, we recommend:
    - minimizing moisture increases in the backfill;

- controlling moisture-density during placement of backfill;
- using designs which allow vertical movement between the exterior features and adjoining structural elements;
- placing effective control joints on relatively close centers

- ~~To minimize post-construction soil movement and provide a uniform support for the buildings, overexcavation and recompaction within the proposed footings shall be performed to a minimum depth of 3 feet below existing grades or 2 feet below the bottom of the proposed footings, whichever is deeper.~~
- ~~The overexcavation and recompaction within the interior slab-on-grade areas shall be performed to a depth of 2 feet below existing grades or 1 foot below the bottom of the proposed slab sections, whichever is deeper.~~
- ~~The overexcavation and recompaction shall also extend laterally 10 feet beyond the edges of the proposed footings.~~
- ~~Within the proposed exterior flatwork and pavement areas, overexcavation and recompaction shall be performed to at least 12 inches below existing grade or finish grade, whichever is lower.~~
- ~~Prior to placement of fill soils, the upper 8 inches of native soils shall be scarified, moisture-conditioned to near optimum moisture content, and recompacted to a minimum of 95 percent of maximum dry density based on ASTM D1557 Test Method.~~
- ~~The proposed structures shall be supported on a shallow foundation system bearing on at least 2 feet of engineered fill.~~
- ~~Shoring or sloping back trench sidewalls shall be required within these sandy soils.~~
- ~~The proposed structure footings shall be designed utilizing an allowable bearing pressure of 2,500 pounds per square foot (psf) for dead-plus-live loads. Footings should have a minimum depth of 18 inches below pad subgrade (soil grade) or adjacent exterior grade, whichever is deeper~~

~~**4.6.2A** The design and construction of the proposed on-site uses shall adhere to the recommendations identified in the geotechnical investigation prepared for the proposed project. The geotechnical investigation prepared for this project identifies the potential for some degree of soil settlement, but the risk can be reduced through adherence to recommendations contained in the geotechnical investigation. These design and construction measures, from the geotechnical investigation, shall include the following:~~

- ~~To minimize post-construction soil movement and provide a uniform support for the building, overexcavation and recompaction within the proposed footings shall be performed to a minimum depth of 3 feet below existing grades or 2 feet below the bottom of the proposed footings, whichever is deeper.~~
- ~~The overexcavation and recompaction within the interior slab-on-grade areas shall be performed to a depth of 2 feet below existing grades or 1 foot below the bottom of the proposed slab sections, whichever is deeper.~~
- ~~The overexcavation and recompaction shall also extend laterally 10 feet beyond the edges of the proposed footings.~~
- ~~Within the proposed exterior flatwork and pavement areas, overexcavation and recompaction shall be performed to at least 12 inches below existing grade or finish grade, whichever is lower.~~

~~**4.6.3A** The design and construction of the proposed on-site uses shall adhere to the recommendations identified in the geotechnical investigation prepared for the proposed project, which identifies the potential for some degree of post-construction settlement. The risk can be reduced through adherence to recommendations contained in the geotechnical investigation. Theserecommendations include (but shall not be limited to) the following:~~

- ~~Prior to the placement of fill soils, the upper 8 inches of native soils shall be scarified, moisture-conditioned to near optimum moisture content and recompacted to a minimum of 95 percent of maximum dry density based on ASTM D1557 Test Method.~~
- ~~Native silty sand or silty sand soils/sand soils are suitable for reuse as engineered fill. Fill material shall be compacted to a minimum of 95 percent of maximum density based on ASTM D1557 Test Method.~~

3.8 GREENHOUSE GAS EMISSIONS

3.8.1 Summary of Impacts Identified in the Approved Project

The Certified EIR analyzed consistency of the approved project with GHG reduction strategies that would reduce GHG emissions, but did not include quantitative analysis under defined thresholds, which were not available at the time the Certified EIR was prepared. The Certified EIR acknowledges that although these strategies may reduce GHG emissions, it was not possible at that time to quantify reductions in GHG emissions. However, the approved project was found

to be consistent with reduction strategies. As a result, the approved project's GHG emissions impact were found to be less than significant.

3.8.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	N/A	No	No	No	**Yes**
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	N/A	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

The analysis in this section is based on the *Air Quality and Greenhouse Gas EIR Addendum Analysis Memorandum* prepared by Kimley-Horn and Associates Inc. dated August 27, 2025, and included in Appendix A.

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. GHG emissions of the proposed project are compared to MDAQMD's brightline GHG threshold

of 100,000 short tons of CO_2e (carbon-dioxide equivalence) or approximately 90,718 metric tons of CO_2e ($MTCO_2e$).

CONSTRUCTION GHG EMISSIONS

The proposed project would result in direct emissions of CO_2, N_2O, and CH_4 (methane) from construction equipment and the transport of materials and construction workers to and from the project site. The GHG emissions would only occur during temporary construction activities and would cease once construction is complete. The total GHG emissions generated during the construction of the proposed project are shown in Table 7**,** *Project Construction–Related Greenhouse Gas Emissions.* As shown in Table 7, the proposed project would result in the generation of approximately 102 $MTCO_2e$ throughout the course of construction. The amortized project construction emissions would be 3 $MTCO_2e$ per year. Once construction is complete, the generation of these GHG emissions would cease.

Table 7 Project Construction–Related Greenhouse Gas Emissions

Category	$MTCO_2e$
Total Construction Emissions	102

Source: Kimley-Horn 2025a (Appendix A).

OPERATIONAL GHG EMISSIONS

Operational emissions occur over the life of a project. GHG emissions would result from direct emissions such as project-generated vehicular traffic including passenger automobiles and trucks, and from indirect sources such as off-site generation of electrical power, the energy required to convey water and wastewater to and from the proposed project, the emissions associated with solid waste generated from the proposed project, and any fugitive refrigerants from air conditioning or refrigerators. GHG emissions associated with the proposed project are summarized in Table 8, *Proposed Project Operational Greenhouse Gas Emissions.* Construction GHG emissions have been amortized over a 30-year period and added to the total operational emissions of a project to ensure that GHG reduction strategies address construction emissions as part of the overall operation.

As shown in Table 8, the proposed project would generate 1,960 $MTCO_2e$ of GHG emissions, which is less than the 2,351 $MTCO_2e$ assumed for the fuel station component of the approved project. As noted above, GHG emissions for the fuel station component of the approved project were calculated using 2010 emission rates in CalEEMod. These emissions, therefore, do not incorporate the stricter vehicle fuel emissions standards and energy efficiency requirements required for current development.

Table 8 Proposed Project Operational Greenhouse Gas Emissions

Source	Emissions ($MTCO_2e$ per Year)
Approved Project	
Fuel Station Operational Emissions	2,351
Proposed Project	
Construction Amortized Over 30 Years	3
Mobile Sources	1,886
Area Source	<1
Energy	17
Water and Wastewater	<1
Solid Waste	1
Refrigerants	53
Total	**1,960**
MDAQMD Threshold	*90,718*
Exceed MDAQMD Threshold?	**No**

Source: Kimley-Horn 2025a (Appendix A).

As discussed previously, the Certified EIR was prepared before MDAQMD had adopted the 100,000 short ton threshold (90,718 $MTCO_2e$). Instead, the Certified EIR based GHG impacts on consistency with GHG reduction strategies that would reduce GHG emissions. However, these GHG reduction strategies are now required under the CARB Scoping Plan. Additionally, the proposed project would be subject to the California Building Energy Efficiency Standards and Green Building Standards Code (CALGreen), further minimizing building energy emissions. Improvements in vehicle fuel efficiency under the federal Corporate Average Fuel Economy regulations would also result in lower mobile source emissions from the proposed project over time.

Because the proposed project is subject to current regulations enforcing stricter emissions reductions compliance when compared to those applicable to the approved project, emissions under the proposed project would generally be less than those of the approved project. As shown in Table 8, the proposed project would generate less emissions than the approved project and less than MDAQMD's current GHG threshold. Therefore, impacts related to GHG emissions would be less than significant.

Consequently, the proposed project would not result in new significant environmental effects, would not substantially increase the severity of previously identified significant effects, and therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As noted, GHG impacts under the Certified EIR were assessed by determining the approved project consistency with relevant GHG reduction strategies. Like the approved project, the proposed project would be required to comply with applicable Statewide and local regulations requiring the reduction of GHG emissions. The strategies listed in Table 4.3-Q of the Certified EIR are now largely integrated with CARB's Scoping Plan. Therefore, though the Certified EIR did not explicitly analyze the approved project's consistency with the Scoping Plan, an analysis of the proposed project's consistency with the Scoping Plan is comparable to the analysis in Table 4.3-Q of the Certified EIR.

The latest 2022 Climate Change Scoping Plan outlines the State's strategies to reduce GHG emissions in accordance with the targets established under Assembly Bill (AB) 32, Senate Bill (SB) 32, and AB 1279 (CARB 2022). The Scoping Plan is applicable to State agencies and is not directly applicable to cities/counties and individual projects. However, new regulations adopted by the state agencies from the Scoping Plan result in GHG emissions reductions at the local level. As a result, local jurisdictions benefit from reductions in transportation emissions rates, increases in water efficiency in the building and landscape codes, and other statewide actions that affect a local jurisdiction's emissions inventory from the top down. Statewide strategies to reduce GHG emissions include the Low Carbon Fuel Standard and changes in the corporate average fuel economy standards (e.g., Pavley I and Pavley California Advanced Clean Cars program).

GHG emissions generated by future development facilitated by the proposed project would be reduced through compliance with the programs and regulations identified by the Scoping Plan and implemented by state, regional, and local agencies to achieve the statewide GHG reduction goals of AB 32, SB 32, and AB 1279. Thus, the proposed project would not conflict with the above statewide strategies identified to implement the CARB 2022 Scoping Plan.

Consequently, the proposed project would not result in new significant environmental effects, would not substantially increase the severity of previously identified significant effects, and therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.8.3 Adopted Mitigation Measures Applicable to the Proposed Project

The Certified EIR determined that GHG emissions impacts would be less than significant. Therefore, no mitigation measures specific to GHG emissions were incorporated in the Certified EIR. As discussed above, the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

3.9 HAZARDS AND HAZARDOUS MATERIALS

3.9.1 Summary of Impacts Identified in the Approved Project

- **Routine Transport, Use, and Disposal of Hazardous Materials**. The Certified EIR determined that the approved project would involve the routine transport, use, and storage of hazardous materials associated with large-scale retail operations, including the handling of pesticides, fertilizers, and other household hazardous substances. With compliance with these regulations, impacts were found to be less than significant. (Note: fuel sales were not an approved Specific Plan use.)

- **Accidental Release or Upset Conditions**. The Certified EIR evaluated the potential for accidental spills or upset conditions and determined that adherence to hazardous-materials business-plan requirements, spill-containment standards, and emergency-response protocols would ensure impacts remain less than significant.

- **Hazardous-Materials Sites and Proximity to Schools**. The Certified EIR identified no schools within one-quarter mile of the project site and found that the site is not listed on the Cortese List or in other hazardous-materials databases. A Phase I ESA confirmed no evidence of contamination or storage of hazardous substances. Impacts related to hazardous-materials sites or proximity to schools were determined to be less than significant.

- **Emergency Response and Evacuation Plans**. The Certified EIR found that development of the approved project would not impair or conflict with adopted emergency-response or evacuation plans. Site design would comply with emergency-access standards, and construction traffic-control measures would maintain access during temporary restrictions. Impacts were therefore less than significant.

- **Airport Hazards**. The project site is located approximately one mile from the Yucca Valley Airport, within Safety Review Area 3, where commercial uses are considered compatible. The Certified EIR concluded that aviation-safety risks would be less than significant.

- **Wildland Fire Hazards**. The Certified EIR found that the project site is not in or adjacent to wildlands and determined no impact related to wildland-fire hazards.

3.9.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	LTS	No	No	No	**Yes**
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	LTS	No	No	No	**Yes**
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	LTS	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	LTS	No	No	No	**Yes**
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?	LTS	No	No	No	**Yes**
f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	LTS	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?	NI	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. Development under the proposed project would continue to involve the routine transport, use, and storage of hazardous materials associated with large-scale retail and fueling operations, consistent with the approved project analyzed in the Certified EIR. The approved project included a six-pump fuel station with a canopy, and the proposed project would maintain this fueling configuration in a slightly modified on-site location. The proposed project also includes construction of a new convenience store adjacent to the fuel station, which was not previously analyzed in the Certified EIR.

Operation of the convenience store would involve the limited use and storage of typical consumer products such as cleaning supplies, batteries, automotive fluids, and other household materials. These substances would be handled, stored, and disposed of in accordance with applicable federal, State, and local regulations governing hazardous materials management, including the U.S. Department of Transportation, California Department of Toxic Substances Control, and the San Bernardino County Fire Department Hazardous Materials Division.

The addition of the convenience store would not substantially increase the volume or type of hazardous materials used or stored on the project site. All fueling operations would continue to

comply with underground storage tank permits, hazardous materials business plan regulations, and ongoing inspection by the County Fire Department. Therefore, consistent with the Certified EIR, impacts related to the routine transport, use, and disposal of hazardous materials would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. Under the proposed project, the six-pump fuel station would be regulated under the same requirements as the approved project, and the convenience store would not materially increase the likelihood or magnitude of spill events. All fuel dispensing and storage systems would continue to comply with UST design, secondary containment, and monitoring requirements under California Code of Regulations Title 23, Division 3, Chapter 16.

Although the fuel station would be repositioned within the boundaries of the approved Specific Plan area, the relocation would not increase environmental risk because the same containment, inspection, and emergency response standards would apply. Therefore, impacts related to accidental spills or upset conditions would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined that no schools were located within one-quarter mile of the project site. A review of current aerial imagery and district boundaries confirms that no schools have been developed within that radius since EIR certification. The nearest school is Black Rock High School, approximately 0.7 mile southeast of the project site. Therefore, the proposed project would not pose a risk of hazardous emissions or accidental release to nearby schools, and impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code § 65962.5 and, as a result, would it create a significant hazard to the public or the environment?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR concluded that the approved project was not included on any list of hazardous materials sites compiled pursuant to Government Code § 65962.5, and that a Phase I Environmental Site Assessment identified no evidence of hazardous materials contamination. A review of the California Department of Toxic Substances Control's EnviroStor database (accessed October 2025) confirms that the project site remains absent from the list of hazardous waste facilities, cleanup sites, or active investigations (DTSC 2025). Therefore, no change in environmental conditions has occurred since certification of the EIR, and impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project result in a safety hazard or excessive noise for people residing or working in the project area?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The project site is located approximately one mile west of Yucca Valley Airport, within Safety Review Area 3, where commercial uses are considered compatible. The proposed project would not increase building heights or introduce sensitive uses from what was analyzed in the Certified EIR that could interfere with airport operations. Accordingly, impacts related to airport hazards would remain less than significant, consistent with the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the

criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

f) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR concluded that the approved project would not impair implementation of, or conflict with, an adopted emergency response or evacuation plan. The proposed project would not modify site access, circulation, or driveway locations in a way that would impede emergency vehicle movement. Compliance with applicable fire and building code requirements would ensure continued emergency access. Therefore, impacts would remain less than significant, consistent with the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

g) Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR found that the Specific Plan area is not located in or adjacent to wildlands. The project site remains surrounded by developed land and paved roadways, and the proposed project would not change this condition. Therefore, impacts related to wildland fire hazards would remain less than significant, consistent with the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.9.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures were identified in the Certified EIR for Hazards and Hazardous Materials. As discussed above, the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

3.10 HYDROLOGY AND WATER QUALITY

3.10.1 Summary of Impacts Identified in the Approved Project

- **Construction-Related Water Quality Impacts**. The Certified EIR found that grading and excavation during construction could expose soils to storm runoff, causing erosion and sedimentation. Compliance with the NPDES CGP preparation of a SWPPP, and implementation of BMPs—including inspection and monitoring requirements under oversight of the CRRWQCB—would ensure construction-related water quality impacts remain less than significant.

- **Operational Water Quality Impacts**. The Certified EIR determined that development would increase impervious surfaces and urban runoff pollutants associated with vehicular traffic and paved areas. However, with implementation of operational BMPs, on-site drainage design consistent with Town and County stormwater standards, and compliance with NPDES operational requirements, impacts to stormwater quality would remain less than significant.

- **Groundwater Recharge and Supply**. The Certified EIR found that the conversion of permeable surfaces to impervious area would slightly reduce groundwater recharge but not at a level significant to the Warren Valley Groundwater Basin. The basin is adjudicated and managed by the Hi-Desert Water District (HDWD) and Mojave Water Agency (MWA) under the Warren Valley Basin Judgment. Compliance with basin management policies and reliance on imported water to maintain balance ensured impacts to groundwater supply and recharge were less than significant.

- **Drainage Pattern and Capacity**. The Certified EIR concluded that increases in runoff from impervious surfaces would be minor relative to total rainfall. The approved project's drainage system—including catch basins, storm drains, and a detention basin—was designed to ensure post-development flows would not exceed predevelopment levels. Therefore, impacts related to drainage pattern alteration and system capacity were less than significant.

- **Flooding and Flood Hazard**. The Certified EIR determined that the site is located in FEMA Flood Zone X, outside the 500-year floodplain, and is not within a dam inundation area. The project would not impede or redirect flood flows; thus, flooding impacts were less than significant.

- **Seiche, Tsunami, or Mudflow Risk**. The Certified EIR found no nearby large bodies of water or steep slopes capable of generating seiche, tsunami, or mudflow hazards. Related impacts were therefore less than significant.

- **Waste Discharge and Treatment**. The Certified EIR evaluated on-site wastewater treatment under the jurisdiction of the Colorado River Basin RWQCB and found it would meet applicable water quality objectives. Installation of dry sewer lines and future connection to the HDWD wastewater treatment facility would ensure compliance with future NPDES requirements. Impacts were determined to be less than significant.
- **Consistency with Water Quality and Groundwater Management Plans**. The Certified EIR determined the project would comply with applicable RWQCB Basin Plan policies, HDWD requirements, and Town NPDES standards. The proposed project would not conflict with or obstruct the implementation of any water quality control plan or sustainable groundwater management plan. Impacts were less than significant.

3.10.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?	LTS	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?	LTS	No	No	No	**Yes**
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:					
i) result in substantial erosion or siltation on- or off-site;	LTS	No	No	No	**Yes**
ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;	LTS	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or	LTS	No	No	No	**Yes**
iv) impede or redirect flood flows?	LTS	No	No	No	**Yes**
d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?	N/A	No	No	No	**Yes**
e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?	N/A	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

The analysis in this section is based on the *Mojave River Watershed Water Quality Management Plan* prepared by Kimley-Horn and Associates Inc. dated September 8, 2025, included in Appendix D.

a) Violate any water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164.

CONSTRUCTION

Consistent with the Certified EIR, construction of the proposed project would disturb greater than one acre and therefore has the potential to discharge sediment and pollutants to storm drains and receiving waters. The proposed project would be required to obtain a State Water Resources Control Board NPDES Construction General Permit. The Colorado River Regional Water Quality Control Board (CRRWQCB) administers the NPDES permitting programs for the Town of Yucca Valley and is responsible for developing waste discharge requirements. CRRWQCB requirements include those requiring preparation and implementation of water quality management plan (WQMP) to control contaminants into storm drain systems, educate the public about stormwater impacts, detect and eliminate illicit discharges, control runoff from construction sites, and implement BMPs and site-specific runoff controls and treatments. The NPDES Construction General Permit (CGP) and preparation of a SWPPP would include BMPs to reduce water quality impacts, including various measures to control on-site erosion, reduce sediment flows into stormwater and wind erosion; reduce tracking of soil and debris into adjacent roadways and off-site areas; and manage wastes, materials, wastewater, liquids, hazardous materials, stockpiles, equipment, and other site conditions to prevent pollutants from entering the storm drain system. Therefore, consistent with the Certified EIR, implementation of the provisions of the NPDES permits and compliance with Town grading requirements would reduce impacts to water quality or water discharge to a less than significant level.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

OPERATION

During operation, the proposed project would connect to the existing on-site drainage network previously analyzed in the Certified EIR. Stormwater from paved areas, including the fueling canopy and convenience-store area, would continue to be routed to the existing detention basin, with pretreatment of flows from fuel areas through the Aqua-Swirl AS-2 separator.

As detailed in the WQMP, non-structural BMPs (e.g., employee training, spill-response procedures, catch-basin inspections, litter control) and structural BMPs (e.g., covered trash enclosure, signage, graded landscaped areas, and efficient irrigation) would be implemented and maintained by Walmart Stores, Inc. to ensure long-term water-quality protection (Appendix D). The WQMP determined that the proposed conditions would not increase stormwater

volumes or degrade the quality of runoff compared to existing conditions because the project introduces additional pervious landscaping and maintains existing flow direction toward the detention basin (Appendix D).

With adherence to the CRRWQCB and NPDES operational requirements, implementation of BMPs identified in the WQMP, and routine inspection and maintenance, the project would not violate water-quality standards or waste-discharge requirements, nor substantially degrade surface or groundwater quality. Therefore, impacts would remain less than significant, consistent with the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Substantially decrease groundwater supplies or interfere substantially with groundwater recharge such that the project may impede sustainable groundwater management of the basin?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area, and as such, would not result in additional impacts to groundwater supplies or recharge. As discussed in the Certified EIR, the approved project's development resulted in conversion of previously undeveloped land to commercial use with associated impervious surfaces. The proposed project would occur entirely within the existing Walmart Supercenter parking lot, which has already been developed and graded, and therefore would not result in a net increase in impervious area compared to the approved project.

The proposed project would also incorporate new landscaped areas and bioretention planters, which would provide small, localized opportunities for infiltration and groundwater recharge. No direct extraction of groundwater or new water wells are proposed. The proposed project would continue to receive water from the Hi-Desert Water District, which obtains its supply from the Warren Groundwater Basin, managed under the Sustainable Groundwater Management Act (SGMA).

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river or through the addition of impervious surfaces, in a manner which would:

i) result in a substantial erosion or siltation on- or off-site;

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. During construction, preparation and implementation of site-specific BMPs consistent with the CGP and the proposed project's SWPPP would control sediment and prevent pollutants from entering waterways and receiving waters.

The proposed project would remain within the boundaries of the approved Specific Plan area. As discussed above, the proposed project would not increase impervious surfaces compared to the approved project and would introduce a slight increase in pervious areas through landscaped planters and bioretention features identified Appendix D. All project site drainage would be directed to existing catch basins connected to the on-site detention basin located north of the Walmart parcel, with pretreatment of fuel area runoff through an Aqua-Swirl AS-2 hydrodynamic separator before discharge to the basin.

Because the project site is already paved, essentially flat, and lacks natural drainage channels, the potential for erosion or siltation during operation would be minimal. The Certified EIR found that on-site drainage improvements, including detention basins and compliance with Town and County storm-drain design standards, would prevent substantial erosion or siltation on or off the site. Therefore, incorporation of the same structural BMPs and site design measures required under the current NPDES permit would ensure that erosion and siltation impacts remain less than significant, consistent with the Certified EIR conclusions and the 2025 WQMP findings.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

ii) substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site;

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164.

As with the approved project, during construction, the proposed project would implement BMPs consistent with the CGP and the site-specific SWPPP to ensure that temporary stormwater flows do not result in flooding or exceedance of stormwater drainage system capacity.

As discussed above, the proposed project would not result in an increase in previous surfaces and therefore would not increase the rate or amount of surface runoff during operation. Stormwater flows from the proposed project would continue to be captured by existing on-site catch basins, conveyed through the established storm drain network, and directed to the existing detention basin constructed as part of the approved project.

The Certified EIR determined that the detention basin and drainage infrastructure designed under the approved project provided sufficient capacity to accommodate project-area runoff without increasing off-site flows or flooding potential. The 2025 WQMP confirms that the proposed project would maintain this drainage pattern, directing all runoff (including from the new fueling canopy) to the same detention system, with pretreatment via an Aqua-Swirl AS-2 hydrodynamic separator.

Additionally, the proposed project would implement site design, source control, and treatment-control BMPs in accordance with the NPDES permit and Town drainage standards. Therefore, impacts related to surface runoff and on- or off-site flooding would remain less than significant, consistent with the Certified EIR and WQMP findings.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

iii) create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff; or

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined that with the construction of on-site catch basins, storm drains, and a detention basin, post-development runoff rates would remain at or below pre-development conditions, thereby preventing exceedance of drainage capacity.

As discussed above, the proposed project would not result in an increase in impervious surfaces as compared to the approved project and therefore would not increase runoff volume or flow rate that would exceed the capacity of the approved project's stormwater drainage systems. Water flows from the proposed project would continue to be captured by existing on-site inlets and catch basins, conveyed through the approved project's underground storm drain network, and directed to the existing detention basin constructed under the Certified EIR, with limited surface flow conveyed along private drive aisles and the adjacent public right-of-way drainage facilities. With the decrease in impervious surfaces, it is expected stormwater flows would remain similar or less than flows analyzed in the approved project.

The WQMP confirms that the fueling facility would maintain this existing drainage configuration and that total runoff discharge from the site would not exceed design capacity. In addition, pretreatment of fuel area runoff through an Aqua-Swirl AS-2 hydrodynamic separator and implementation of source-control and treatment BMPs required under the NPDES permit would prevent substantial pollutant discharges. Therefore, impacts related to storm drain capacity or polluted runoff would remain less than significant, consistent with the Certified EIR and WQMP findings.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

iv) impede or redirect flood flows?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined the Specific Plan area is not within a designated flood hazard area or dam inundation area. The approved project site is within flood Zone X, an area outside the 500-year floodplain.

The proposed project would remain entirely within the boundaries of the approved Specific Plan area and would not modify the existing drainage pattern or detention basin designed under the Certified EIR. Therefore, the proposed project would not have the potential to impede or redirect flood flows, and impacts would remain less than significant, consistent with the Certified EIR and WQMP findings.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) In flood hazard, tsunami, or seiche zones, risk release of pollutants due to project inundation?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164.

The Certified EIR determined the Specific Plan area is not within an identified flood hazard area, dam inundation area, tsunami, or seiche area. The approved project site is within flood Zone X, which is defined as an area outside the 500-year floodplain. The project site is not within the vicinity of any lakes or bodies of water and would not be subject to seiche- or tsunami-related flooding.

The proposed project would remain within the boundaries of the approved Specific Plan area and would not introduce any new risk of pollutant release due to inundation. Therefore, impacts remain less than significant and consistent with the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

e) Conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR noted that the project would construct an on-site treatment system or underground treatment system involving several chambers and pumps, which would be consistent with the CRRWQCB Water Quality Objectives. However, the approved project does not discuss the water quality control plan or sustainable groundwater management plan.

Water quality in surface and groundwater bodies is regulated by the State Water Resources Control Board and the RWQCB. The Town of Yucca Valley is under the jurisdiction of the CRRWQCB, which is responsible for implementation of state and federal water quality protection guidelines in the vicinity of the project site. The CRRWQCB implements the Water Quality Control Plan for the Colorado River Basin (Basin Plan), a master policy document for managing water quality issues in the region. Additionally, the project site is within the Warren Valley Basin, with management of the basin written in the Warren Valley Basin Management Plan (WVBW 1991).

As discussed in Thresholds 3.10.2 (a), (b), and (c), the proposed project would adhere to CRRWQCB requirements and not obstruct the implementation of a water quality control plan or sustainable groundwater management plan. The proposed project would be required to implement a SWPPP during construction to reduce potential impacts to surface water and comply with the Town's NPDES standards and Town Code. The proposed project would not adversely affect water quality or groundwater quality. Therefore, implementation of the proposed project would not conflict with or obstruct implementation of any water quality control plan and impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.10.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures were adopted as part of the approved project's Certified EIR relating to hydrology and water quality. As discussed above, the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

3.11 LAND USE AND PLANNING

3.11.1 Summary of Impacts Identified in the Approved Project

- **Physically Divide an Established Community**. The Certified EIR found that the Specific Plan area did not contain any existing housing or neighborhood features and was undeveloped at the time of analysis. The site is not located within an established community and would not create physical barriers between existing residential areas. Therefore, impacts related to the division of an existing community were determined to be less than significant.

- **Conflict with Applicable Land Use Plans, Policies, or Regulations**. The Certified EIR determined that the approved project was consistent with the Town of Yucca Valley General Plan, Development Code, and Specific Plan, all of which guide local land use and development. The Certified EIR concluded that the approved project would not conflict with any land-use plan, policy, or regulation adopted for the purpose of avoiding or mitigating environmental effects, and impacts were less than significant.

3.11.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Physically divide an established community?	LTS	No	No	No	**Yes**
b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?	LTS	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Physically divide an established community?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area. The project site does not currently, nor did it previously, contain any housing that constitutes part of a community or neighborhood. The project site is currently developed as the Walmart Supercenter parking lot. Therefore, no impact would occur.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project includes an amendment to the Specific Plan; however, the fuel station was evaluated in the Certieid EIR and this amendment functions to align the Specific Plan with the proposed fuel station and convenience store. Therefore the proposed project does not introduce a conflict with applicable land use regulations. The proposed project would remain generally consistent with the approved project as a six-pump fuel station with a canopy; however, it would include construction of a convenience store not previously analyzed under the approved project. The proposed convenience store is an allowed use subject to a CUP, which would undergo review and approval by the Town. The Specific Plan amendment updates the applicable land use regulations to allow the proposed fuel station and convenience store, and the CUP provides the discretionary mechanism for the Town to ensure the use complies with all development and operational standards. The inclusion of the convenience store would remain consistent with the Town's General Plan goals and policies, such as Policy 4, by providing additional employment opportunities. The proposed project would comply with the Town Development Code and the Specific Plan goals, policies, and design guidelines. Therefore, as identified in the Certified EIR, adherence to the goals and policies of the Town General Plan, Development Code, and the Yucca Valley Retail Center Specific plan would ensure consistency, and impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.11.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures were adopted as part of the approved project's Certified EIR relating to land use and planning. As discussed above, the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

3.12 MINERAL RESOURCES

3.12.1 Summary of Impacts Identified in the Approved Project

- **Loss of Statewide or Regional Mineral Resources.** The Certified EIR of the approved project determined no impact would occur to mineral resources of statewide or regional importance. The project site is not located within an area identified by the California Department of Mines and Geology as having substantial mineral resources. In addition, the Town's General Plan does not identify any aggregate extraction areas within the limits of the project site or in the vicinity.
- **Loss of Locally Important Mineral Resources.** The Certified EIR determined that the approved project would result in no impact to the availability of a locally important mineral resource recovery site delineated on a local plan. The Town's General Plan does not identify any aggregate extraction areas or extraction of mineral resources within the limits of the project site.

3.12.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?	NI	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	NI	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Result in the loss of availability of a known mineral resource that would be a value to the region and the residents of the state?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would remain within the boundaries of the approved Specific Plan area. As such, the proposed project would remain consistent with the Certified EIR's findings and would not impact any mineral resources of statewide or regional importance. Because no changes in physical location are proposed, the proposed project would result in no impact.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Result in the loss of availability of a locally important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As discussed in Section 3.12.2(a), since there are no physical changes in location proposed, the proposed project would remain within the boundaries of the approved Specific Plan area and

not impact any known local important mineral resources. Therefore, the proposed project would have no impact on locally important mineral resources.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.12.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures were adopted as part of the approved project's Certified EIR relating to mineral resources. As discussed above, the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

3.13 NOISE

3.13.1 Summary of Impacts Identified in the Approved Project

- **Construction and Operational Noise**. The Certified EIR determined that construction activities such as grading and building could generate noise levels up to 91 dBA Lmax at 50 feet, and up to 81 dBA Lmax at the nearest residences approximately 150 feet away. Even with implementation of Mitigation Measure 4.11.1A, construction noise impacts were found to be significant and unavoidable.

  Operational noise sources, including the auto service center, truck deliveries, parking lot activities, rooftop HVAC systems, and drive-through speaker systems, were determined to be below applicable exterior and interior noise standards or masked by existing ambient conditions. Implementation of Mitigation Measures 4.11.3A and 4.11.3B, which restrict nighttime loading and unloading, reduced operational noise impacts to less than significant.

  Traffic noise generated by the approved project was found to increase by less than 3 dBA and to remain within the Town's 70 dBA CNEL (residential) and 75 dBA CNEL (commercial) standards. Therefore, traffic-related noise impacts were determined to be less than significant.

- **Groundborne Vibration and Groundborne Noise**. The Certified EIR determined that vibration from construction equipment, such as bulldozers and compactors, would range from 70 to 75 VdB at 25 feet and would not exceed the FTA's 72 VdB annoyance threshold at nearby residences. These vibration levels would not cause structural damage or human

annoyance. As a result, vibration impacts were determined to be less than significant, and no mitigation measures were required.

- **Exposure to Airport Noise**. The Certified EIR concluded that the project site is located approximately one mile east of the Yucca Valley Airport and outside the 60 CNEL contour line. The site is within Safety Review Area 3, where commercial land uses are considered compatible with airport operations. Therefore, the project would not expose people working or residing in the project area to excessive noise levels, and impacts were determined to be less than significant.

3.13.2 Impacts Associated with the Proposed Project

Would the project result in:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	SU	No	No	No	**Yes**
b) Generation of excessive groundborne vibration or groundborne noise levels?	LTS	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	LTS	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

The analysis in this section is based on the *Noise EIR Addendum Analysis Memorandum* prepared by Kimley-Horn and Associates Inc. dated August 27, 2025, and included in Appendix E.

a) Generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined that construction noise impacts would be significant and unavoidable under the approved project even with incorporation of Mitigation Measure 4.11.1A. Operational noise impacts were determined to be less than significant with incorporation of Mitigation Measures 4.11.3A and 4.11.3B, which reduced noise levels associated with loading and unloading activities. Traffic noise impacts were considered less than significant without mitigation.

CONSTRUCTION NOISE

Project construction is anticipated to occur over approximately 5 months and is scheduled to begin in 2025 and be completed in 2026.[4] Construction of the proposed project would commence with demolition of an area of the existing surface parking lot, followed by grading and excavation. Building foundations would then be constructed, followed by building construction, paving/concrete installation, and architectural coatings. Construction delivery/haul trucks would generally travel between the project site and SR-62.

Construction noise typically occurs intermittently and varies depending on the nature or phase of construction (e.g., land clearing, grading, excavation, paving). Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. During construction, exterior noise levels could affect the residential neighborhoods near the construction site. However, it is acknowledged that construction activities would occur throughout the project site and would not be concentrated at a single point near sensitive receptors.

Construction activities would include demolition of the existing parking lot area, site preparation, grading, building construction, paving, and architectural coating. Such activities could require concrete saws, tractors, and dozers during demolition; graders, dozers and tractors during site preparation; graders, dozers, and tractors during grading; cranes, generators, tractors, forklifts, and welders during building construction; pavers, rollers, tractors, and a concrete mixer during paving; and air compressors during architectural coating. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 to 4 minutes at lower power settings.

The construction noise analysis in the Certified EIR assumed a numeric threshold when determining construction noise impacts. The Certified EIR assumed an exterior construction noise the noise threshold for of 75 dBA L_{max} during the day (7:00 am to 10:00 pm) and 70 dBA L_{max} standard during the night (10:00 pm to 7:00 am). The Certified EIR stated that the nearest residences to the approved project boundary may be subject to short-term and intermittent, maximum noise levels reaching 81 dBA L_{max} and would potentially result in annoyance, resulting in a significant impact requiring mitigation. Table 9, *Project Construction Noise Levels*, for the proposed project, shows that the maximum noise level of construction equipment at the nearest sensitive receptor would be 73.7 dBA L_{max}, which is lower than the construction noise levels of the approved project. Construction of the proposed project would also generate noise

[4] A conservative worst-case construction timeline has been modeled for air quality and greenhouse gas analysis purposes. This construction schedule has been included in the noise analysis for consistency.

levels less than the Town's exterior noise standard of 75 dBA L_{max} during the day. Construction is prohibited during the nighttime, and therefore the 70 dBA L_{max} standard during the night would not be exceeded. As a result, the proposed project construction noise would result in a less than significant impact.

Table 9 Project Construction Noise Levels

Construction Phase	Land Use	Direction	Distance to Property Line (feet)[1]	Average Distance (feet)[1]	Worst Case Modeled Exterior Noise Level (dBA L_{max})[1]	Worst Case Modeled Exterior Noise Level (dBA L_{eq})[1]
Demolition	Residential	North	410	535	73.7	68.2
Site Preparation	Residential	North	410	535	69.4	65.5
Grading	Residential	North	410	535	70.7	66.7
Building Construction	Residential	North	410	535	68.9	64.5
Paving	Residential	North	410	535	68.4	64.1
Architectural Coating	Residential	North	410	535	59.4	55.4

Source: Kimley-Horn 2025c (Appendix E)

Notes:

1. To conservatively estimate construction noise, the loudest equipment is assumed to operate nearest to the property line of the closest sensitive receptors. All other equipment is distributed evenly between the property line and an average distance, with loudest equipment located nearest to sensitive receptors and quieter equipment further away.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

OPERATIONAL NOISE

Fuel Station and Parking Lot Activities

The Certified EIR determined that operational noise from the approved project, including the fuel station, would be less than significant. However, the Certified EIR analysis did not provide noise levels for the fuel station only; as a result, this noise analysis will use the noise levels identified as parking lot activities in the Certified EIR. The noise levels from parking lot activities

would be comparable to fuel station noise levels because they include similar activities (i.e., car door slamming, car radios, engine start-up, and car pass-by). The Certified EIR noted that these activities would generate approximately 60 dBA L_{max} at 50 feet. The nearest sensitive receptor would be approximately 466 feet from the proposed fuel station refuel area. At this distance, the fuel station noise would attenuate to 40.6 dBA L_{max}, which is lower than the Town's exterior noise standards of 75 dBA L_{max} during the day and 70 dBA L_{max} standard during the night. As a result, fuel station noise levels would result in a less than significant impact.

Truck Movements

The Certified EIR determined that slow moving trucks would generate noise levels of up to 75 dBA L_{max} when traveling and braking at a distance of 50 feet. The nearest sensitive receptor would be approximately 466 feet from the proposed fuel station refuel area. At this distance, the noise generated by tanker trucks delivering fuel would attenuate to 55.6 dBA L_{max} and would result in a less than significant impact.

Other Noise-Generating Activities

The Certified EIR stated that buildings withing the approved project would have rooftop heating, ventilating, and air conditioning (HVAC) mechanical equipment. The Certified EIR states that rooftop HVAC units generate noise levels of approximately 52 dBA at a distance of 50 feet. Based on the site plan, the convenience store associated with the fueling station would be approximately 626 feet from the nearest sensitive receptor. At this distance, the noise generated by the rooftop HVAC unit would attenuate to 30 dBA and would result in a less than significant impact.

Cumulative Noise Levels

The Certified EIR determined that noise levels from operations for the approved project may exceed the noise standards during nighttime hours at the closest residences. Noise levels from all operational noise sources of the proposed project discussed above would combine to 56 dBA L_{max}. Assuming all these activities occurred at the same time during nighttime hours, the noise level would still be below the Town's exterior nighttime noise standard of 70 dBA L_{max}. However, although the proposed project's operational noise levels do not exceed the Town's nighttime noise standard, mitigation measures identified in the Certified EIR to reduce noise impacts would still be required as part of the EIR to reduce cumulative noise levels.

Summary

Development of the proposed project would result in less than significant impacts with respect to operational noise. Additionally impacts under the proposed project would remain similar or less than those under the approved project.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

TRAFFIC NOISE

As noted in the Certified EIR, it takes a doubling of traffic volume to cause a three-decibel increase in traffic noise. Therefore, consistent with the Certified EIR, vehicular traffic trips associated with the proposed project would not result in significant traffic noise impacts on off-site sensitive uses. The proposed project is anticipated to generate 826 daily trips. Vehicles accessing the site would either come from SR-62 or from Avalon Avenue. Based on the most recent data from the Caltrans Traffic Census Program (2022), the segment of SR-62 between Pioneer Town Road and the SR-247 north junction has an average annual daily trip rate of 24,000 vehicles per day (Kimley-Horn 2025c). Conservatively assuming all vehicles associated with the fuel station were to enter and exit the site from SR-62, the additional 826 vehicles would not be enough to double the existing traffic volume and generate a noticeable increase in traffic noise.

Additionally, Table 5.14-3 of the Yucca Valley General Plan EIR states that the traffic volume of Avalon Avenue, north of Sunnyslope Drive, has 2,707 daily trips (Kimley-Horn 2025c). Conservatively assuming all vehicles associated with the fuel station were to enter and exit the site from Avalon Avenue, the additional 826 vehicles would not be enough to double the existing traffic volume and generate a noticeable increase in traffic noise. Therefore, operational traffic associated with the proposed project would result in a less than significant impact.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Generation of excessive groundborne vibration or groundborne noise levels?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined that residences nearest the approved project would experience vibration levels that could cause annoyance. The Certified EIR states that bulldozers and other heavy equipment would generate approximately 92 VdB of groundborne vibration at 50 feet and that at each doubling of the distance, the vibration level would be approximately 6 VdB lower based on the FTA's *Transit Noise and Vibration Impact Assessment Manual*. The Certified

EIR also states that annoyance often occurs when vibrations exceed the threshold of perception (65 VdB) by 10 decibels or more.

The Certified EIR determined that existing residence located 150 feet to the west of the approved project site would be exposed to vibration levels between 80 and 86 VdB during construction which would result in annoyance, while vibrations from operations (trucks and other on-road vehicles) would not. The Certified EIR concluded that although groundborne vibration during construction would be temporary, impacts from groundborne vibration during construction would be significant and unavoidable, as no mitigation measures would reduce this impact to less than significant.

The proposed project construction site is approximately 410 feet from the property line of the nearest sensitive receptor. Following the Certified EIR's methodology of reducing groundborne vibrations by 6 VdB each time the distance is doubled, at 400 feet the vibrations from construction would be reduced to 74 VdB, which is below the annoyance threshold of 75 VdB defined in the Certified EIR. In addition, the current version of the FTA's *Transit Noise and Vibration Impact Assessment Manual* (2018) includes lower vibration source levels for construction equipment. Based on the 2018 version of the manual, bulldozers would generate 87 VdB of groundborne vibration at 25 feet; at a distance of 410 feet, the nearest sensitive receptor would experience vibration levels of 51 VdB, which is below the annoyance threshold of 75 VdB. Therefore, construction vibrations would not cause annoyance, and impacts from groundborne vibrations would be less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Yucca Valley Airport is approximately one mile west of the proposed project site. It is a privately owned airstrip that has been leased on a long term to the Yucca Valley Airport District. According to the Airport Comprehensive Land Use Plan for the Yucca Valley Airport, the proposed project site is located outside of the 60 CNEL contour line for Yucca Valley Airport. Although there may be occasional aircraft flyover noise that is higher than the ambient noise level, because the proposed project is outside of the 60 CNEL contour line for the Yucca Valley

Airport, airport noise levels at the proposed project site are within normally acceptable levels, resulting in a less than significant impact.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.13.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following mitigation measures were taken directly from the Certified EIR and would be incorporated as part of the proposed project. Applicable mitigation measures from the Certified EIR have been incorporated into the proposed project's mitigation monitoring and reporting program. The Certified EIR identified Mitigation Measures 4.11.1A, 4.11.3A, and 4.11.3B. Mitigation Measures 4.11.3A, and 4.11.3B are not applicable to the proposed project. Mitigation Measures 4.11.3A, and 4.11.3B were previously incorporated into the approved project but have been removed from the proposed project's MMRP because loading dock noise is not associated with fuel stations.

Any modifications to these mitigation measures are shown in ~~strikethrough~~ for deleted text and underline for new, inserted text

The Certified EIR Mitigation Measure 4.11.1A is reproduced below.

> **4.11.1A** Construction activities are restricted within the Town to the hours of 7:00 a.m. to 10:00 p.m. Monday through Saturday. The following measures would reduce short-term construction-related noise impacts resulting from the project:
>
> - During all project site excavation and grading onsite, the project contractor shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers consistent with manufacturer's standards.
> - The project contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the project site.
> - The construction contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction.

~~**4.11.3A** Nighttime operation of delivery trucks shall be limited to less than 30 minutes each.~~

~~**4.11.3B** Nighttime operation of delivery truck beepers shall be prohibited for on-site vehicles.~~

3.14 POPULATION AND HOUSING

3.14.1 Summary of Impacts Identified in the Approved Project

- **Unplanned Population Growth**. The Certified EIR determined the approved project would result in an increase in employment opportunities but would not induce substantial population growth and concluded that because most of the new jobs would likely be filled by existing residents, the approved project would not induce substantial population growth, and impacts would be less than significant.
- **Displace Substantial Housing/People**. The Certified EIR found that approved project would not displace substantial housing or people. Because the proposed commercial development would not remove or require the replacement of any existing housing and adequate housing capacity exists within the Town, the Certified EIR concluded that there would be no impact related to the displacement of people or housing.

3.14.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Induce substantial unplanned population growth in an area, either directly (for example, by	LTS	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?					
b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?	NI	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Induce substantial unplanned population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would include development of a six-pump fuel station with a canopy and convenience store. Construction of the proposed project would remain short-term in nature. Additionally, general construction labor is expected to be available from the local and regional labor pool. Similar to the approved project, construction of the proposed project would not directly or indirectly result in unplanned growth, and impacts would be less than significant.

Although the specific location and design of the current proposed fueling facility differ from the original layout, the proposed fuel station's project site boundaries are consistent with the approved project. The fuel station would largely remain consistent with the approved project as a six-pump fuel station with a canopy. The convenience store, which was not previously part of

the approved project, would result in an increase of six employment opportunities, a minor increase compared to the approved project. As with the approved project, the increase in employment opportunities would likely to be filled by persons already residing in the area and not result in substantial unplanned population growth within the Town. Additionally, the proposed project would not develop any new housing. The increase in new employees would not induce substantial unplanned population growth in the area directly or indirectly.

The proposed project includes various infrastructure improvements on the project site to serve the six-pump fuel station and convenience store, such as but not limited to USTs, utility connections to existing utilities, a new driveway and drive lanes. These components would serve the proposed project and would not represent the type of infrastructure that would result in indirect unplanned population growth. Therefore, impacts related to direct or indirect population growth would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Displace substantial numbers of existing people or housing, necessitating the construction of replacement housing elsewhere?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As with the approved project, no dwelling units or residential uses currently occupy the project site. Therefore, no impact would occur.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.14.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures were adopted as part of the approved project's Certified EIR relating to population and housing. As discussed above, the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

3.15 PUBLIC SERVICES

3.15.1 Summary of Impacts Identified in the Approved Project

FIRE PROTECTION SERVICES

The Certified EIR determined that development of the approved project would increase demand for fire protection services provided by the San Bernardino County Fire Department. At the time of analysis, the Fire Department operated above recommended service capacity and relied on mutual aid agreements to maintain response levels. The Certified EIR concluded that retail, fueling, and restaurant uses would increase fire flow demand, emergency calls, and traffic congestion that could slow response times.

To address these impacts, the Certified EIR adopted Mitigation Measures 4.13.1A and 4.13.1B, requiring payment of fair-share fees to a Town-wide public services assessment district and provision of a looped water system to provide adequate fire flow. With implementation of these measures, fire protection impacts were reduced to a less-than-significant level.

POLICE PROTECTION SERVICES

The Certified EIR noted that police protection in the Town of Yucca Valley was provided by the San Bernardino County Sheriff's Department. Although most employment opportunities generated by the approved project were expected to be filled by existing residents, the proposed retail and commercial uses would increase the frequency of calls for service and demand for patrol coverage.

To ensure adequate law enforcement capacity, the Certified EIR adopted Mitigation Measure 4.13.2A, requiring payment of fair-share fees to a Town-wide public services assessment district for the expansion of police facilities and acquisition of new equipment. With implementation of this mitigation measure, impacts on police protection services were reduced to a less than significant level.

SCHOOLS

The Certified EIR determined that the approved project would not substantially increase the number of school-aged children, as the approved project consisted entirely of commercial uses and would primarily employ existing residents. The applicant was required to pay statutory school impact fees in accordance with Senate Bill 50 (Government Code Section 65995 et seq.). Compliance with these mandatory provisions ensured that potential impacts were fully mitigated and, therefore, less than significant.

PARKS AND OTHER PUBLIC FACILITIES

Because the approved project did not involve residential development or population growth, the Certified EIR determined that it would not result in a substantial increase in demand for parks, libraries, or other public facilities. Therefore, impacts on other public services were determined to be less than significant, and no mitigation measures were required.

3.15.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:					
Fire protection?	LTS/M	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
Police protection?	LTS/M	No	No	No	**Yes**
Schools?	LTS	No	No	No	**Yes**
Parks?	LTS	No	No	No	**Yes**
Other public facilities?	LTS	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:

FIRE PROTECTION?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined that the approved project would increase demand for fire protection services and required implementation of Mitigation Measures 4.13.1A and 4.13.1B, which mandate payment of fair-share fees to a Town-wide public services assessment district and installation of a looped water system to ensure adequate fire flow.

The proposed project, which involves development of a new six-pump fuel station and 1,556-square-foot convenience store within the existing Walmart Supercenter parking lot, would not alter the existing development footprint or increase overall building intensity within the Plan area. The project site is fully served by existing water infrastructure, roadways, and emergency access routes. Because the proposed project would not result in new demand beyond that analyzed in the Certified EIR, and because the mitigation measures remain applicable, no new or expanded fire protection facilities would be required. Therefore, the proposed project would not result in substantial adverse physical impacts related to fire protection, and impacts would remain less than significant with implementation of previously adopted mitigation measures.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

POLICE PROTECTION?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR concluded that the approved project would increase demand for police protection services and adopted Mitigation Measure 4.13.2A, requiring payment of fair-share fees to a Town-wide public services assessment district to support law enforcement facility and equipment improvements.

The proposed project would not introduce new residential uses or increase population and would generate only a minor operational demand for law enforcement services typical of a small retail fueling facility. The project site is within an established commercial corridor with routine police patrol coverage. Implementation of Mitigation Measure 4.13.2A would continue to ensure adequate funding for police services.

Accordingly, the proposed project would not require new or expanded police protection facilities, and impacts would remain less than significant with implementation of previously adopted mitigation measures.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

SCHOOLS?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As found in the Certified EIR, the approved project was commercial in nature and would not generate new residential population or substantially increase enrollment in local schools. The proposed project would similarly consist of commercial uses. A fuel station and convenience store would not introduce or house new residents.

In accordance with Senate Bill 50 (Government Code Section 65995 et seq.), the project applicant would continue to be required to pay statutory school impact fees to the appropriate school district. Compliance with these mandatory provisions would fully mitigate potential school-related impacts. Therefore, the proposed project would not result in the need for new or expanded school facilities, and impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

PARKS?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined that the approved project would not result in an increase in population and therefore would not increase demand for parks or recreational facilities. The proposed project would maintain a similar non-residential land use profile and would not increase the Town's population. Therefore, the proposed project would not contribute to the need for new or expanded park facilities, and impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

OTHER PUBLIC FACILITIES?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR found that the approved project would not result in substantial demand for other public facilities such as libraries or government offices, as it did not involve residential growth. The proposed project would maintain the same commercial character and would not increase population or service demands. Therefore, the proposed project would not require the construction or expansion of other public facilities, and impacts would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.15.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following mitigation measures were taken directly from the Certified EIR and would be incorporated as part of the proposed project. Applicable mitigation measures from the Certified

EIR have been incorporated into the proposed project's mitigation monitoring and reporting program.

The Certified EIR Mitigation Measures 4.13-1A, 4.13-1B, and 4.13.2A, are reproduced below.

> **4.13-1A** Prior to the issuance of occupancy permits, the project applicant shall make payment of fair share contribution fees (as determined by the Fire Chief) to a Town-wide public services assessment district.
>
> **4.13-1B** Prior to the issuance of grading permits, the project applicant shall submit for review and approval by the Fire Chief, a site plan design which includes looped water service which provides adequate fire flow (as determined by the Fire Chief).
>
> **4.13.2A** Prior to the issuance of occupancy permits, the project applicant shall make payment of fair share contribution fees to a City-wide public services assessment district.

3.16 RECREATION

3.16.1 Summary of Impacts Identified in the Approved Project

- **Increased Use of Parks or Recreational Facilities**. According to the Certified EIR the approved project may result in an increase in use of parks and recreational facilities. Although the approved project does not include a residential, park, or recreation component, the approved project's retail and restaurant uses would generate employment opportunities. The Certified EIR determined the approved project is unlikely to significantly increase local or regional populations, and that any resulting increase in demand for existing or planned neighborhood or regional parks and other recreational facilities would be less than significant.
- **Provide Parks or Recreational Facilities**. The Certified EIR stated that the approved project does not include a park or residential component. Therefore, impacts related to parks and recreational facilities would be less than significant.

3.16.2 Impacts Associated with the Proposed Project

Would the Project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	LTS	No	No	No	**Yes**
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	LTS	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation;
SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. Consistent with the approved project, no parks or recreational facilities are proposed. Although the proposed project would generate an increase in six employment opportunities, the new positions are likely to be filled by persons already residing in the Town. As discussed in Impact 3.14 (a), the proposed project would not result in significant increase in population growth.

Therefore, a less than significant increase in demand on existing or planned neighborhood/ regional parks or other recreational facilities will occur.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As discussed above, the proposed project would not construct any recreational facilities, would not significantly increase the local or regional population base, and would not result in the need for new or expanded parks. Therefore, impacts would be less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.16.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures were adopted as part of the approved project's Certified EIR relating to recreational services and facilities. As discussed above, the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

3.17 TRANSPORTATION/TRAFFIC

3.17.1 Summary of Impacts Identified in the Approved Project

- **Consistency with Circulation System Plans**. The Certified EIR evaluated traffic operations using Level of Service (LOS) under the San Bernardino County CMP Traffic Impact Analysis Guidelines for both Opening Day (2007) and Year 2030 scenarios. Under Opening Day + Project conditions, five intersections would operate below the Town's LOS standard, constituting a significant impact. Implementation of Mitigation Measures 4.15-1A (signal

and striping improvements) and 4.15-1B (payment of Town traffic and signal impact fees) reduced intersection impacts to acceptable LOS. However, under Year 2030 + Project cumulative conditions, several intersections would still exceed LOS standards due to regional growth, and impacts were determined to remain significant and unavoidable even with implementation of Mitigation Measure 4.15-2A (fair-share payment of traffic and signal impact fees).

- **Vehicle Miles Traveled**. The Certified EIR was prepared prior to adoption of VMT as a CEQA metric and therefore relied on LOS and CMP methodologies. At the time of certification, VMT analysis was not required, and no significance determination under Section 15064.3 applied.

- **Transportation Safety and Design Hazards**. The Certified EIR identified a potential sight-distance hazard at the proposed signalized driveway on SR-62. Mitigation Measure 4.15-3A requires grading and landscaping plans to preserve a minimum 942-foot westerly sight distance, ensuring adequate visibility consistent with Caltrans standards. With implementation of this measure, impacts were determined to be less than significant.

- **Emergency Access**. The Certified EIR concluded that the approved project would maintain adequate emergency access to and within the site. Circulation and driveway configurations would not interfere with emergency-response operations or evacuation routes. Therefore, impacts were less than significant.

3.17.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Conflict with a program, plan, ordinance or policy addressing the	SU	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
circulation system, including transit, roadway, bicycle and pedestrian facilities?					
b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?	N/A	No	No	No	**Yes**
c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	LTS/M	No	No	No	**Yes**
d) Result in inadequate emergency access?	LTS	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

A Transportation Impact Analysis (TIA) was prepared for the proposed project by Kimley-Horn and Associates Inc. (dated September 2025) to evaluate potential traffic, circulation, and access impacts associated with development of six new fueling dispensers and a 1,556-square-foot convenience store within the existing Walmart Supercenter parking lot. The analysis evaluated trip generation, distribution, intersection operations, queuing, site circulation, and VMT in accordance with the Town of Yucca Valley, Caltrans, and San Bernardino County Transportation Impact Study Guidelines (SBC 2019) (see Appendix F).

a) Conflict with a program, plan, ordinance or policy addressing the circulation system, including transit, roadway, bicycle and pedestrian facilities?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR evaluated buildout of approximately 28 acres of commercial development, including a 229,000-square-foot Walmart Supercenter, a six-pump fuel station, and a fast-food restaurant, and required implementation of Mitigation Measures 4.15.1A, 4.15.1B, and 4.15.2A for intersection and roadway improvements. These measures (signalization/striping at specified intersections and payment of Town traffic/signal impact fees) are related to traffic congestion and are no longer considered environmental impacts by the Town, pursuant to Senate Bill 743.

The proposed project (six fueling dispensers and a 1,556-square-foot convenience store) would generate approximately 826 daily trips, including 46 AM and 72 PM peak-hour trips. Accounting for pass-by trips (60 percent daily, 63 percent AM, 57 percent PM), the proposed project would result in negligible net increases in local traffic.

The proposed project would utilize existing driveways, drive aisles, and signalized access points, and no changes to the surrounding roadway network or bicycle/pedestrian facilities are proposed. During construction, short-duration work adjacent to the existing Morongo Basin Transit Authority (MBTA) bus stop may be required; the applicant would coordinate in advance with MBTA to maintain access or provide a brief, agency-approved temporary relocation. Such temporary conditions would not alter transit service levels, routes, or adopted transit plans. Therefore, the proposed project would not conflict with any adopted circulation plans or policies.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Conflict or be inconsistent with CEQA Guidelines § 15064.3, subdivision (b)?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project qualifies for VMT screening under the San Bernardino County Transportation Impact Study Guidelines because it is a local-serving use under 50,000 square feet that primarily serves the surrounding community (SBC 2019). The TIA concluded that the project screens out of VMT analysis and would be presumed to have a less-than-significant impact consistent with the intent of SB 743. Therefore, no further VMT assessment is required.

The Certified EIR predated the adoption of CEQA Guidelines Section 15064.3(b), which establishes VMT as the primary metric for evaluating transportation impacts. However, the proposed project would not increase the total building area or introduce new destination-oriented uses that would generate additional regional travel demand.

Trips generated by the convenience store would largely be captured as pass-by trips associated with existing commercial traffic on SR-62 and Avalon Avenue. Because the proposed project would not result in a measurable increase in regional VMT relative to the approved project, it would not conflict with CEQA Guidelines Section 15064.3(b). Therefore, VMT-related impacts would be less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Substantially increase hazards due to a geometric design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed fuel station would be constructed within the existing Walmart parking lot and would not modify existing roadway geometry or intersection design. Access would occur through two existing driveways along SR-62: a right-in/right-out driveway and a full-access driveway. The TIA's on-site queuing analysis found that the 95th percentile queues at both driveways would not back into internal aisles or SR-62, demonstrating adequate storage and safe operations**.**

No new conflicts with transit, bicycles, or pedestrians are anticipated, as existing sidewalk and transit facilities would remain intact. A new pedestrian walkway provided by the proposed project would connect the proposed project to the existing bus stop, thereby improving project site accessibility. Accordingly, the proposed project would not introduce hazardous geometric features or incompatible uses, and impacts would be less than significant with continued compliance with Certified EIR Mitigation Measure 4.15.3A (sight-distance preservation at SR-62 driveway).

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) Result in inadequate emergency access?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would retain the existing circulation pattern and emergency access routes serving the Walmart Supercenter site. The Town's emergency services would continue to use SR-62 and Avalon Avenue for access, and on-site drive aisles would accommodate fire and

emergency vehicles consistent with Town of Yucca Valley Fire Department standards. The TIA found no conditions that would impede emergency access or circulation. Therefore, this impact would remain less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.17.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following mitigation measures were taken directly from the Certified EIR and would be incorporated as part of the proposed project. Applicable mitigation measures from the Certified EIR have been incorporated into the proposed project's mitigation monitoring and reporting program. Any modifications to these mitigation measures are shown in ~~strikethrough~~ for deleted text and <u>underline</u> for new, inserted text.

The Certified EIR Mitigation Measures 4.12-1 through 4.12-3 are reproduced below. Mitigation measures related to level-of-service (LOS) are not applicable.

> ~~**4.15-1A** All Prior to issuance of certificates of occupancy, the project applicant shall construct the following improvements:~~
>
> - ~~Inca Trail/Twentynine Palms Highway (SR-62). Install traffic signal.~~
> - ~~Old Woman Springs Road (SR-247)/Buena Vista Drive. Install traffic signal.~~
> - ~~Joshua Lane/Yucca Trail. Install traffic signal.~~
> - ~~Joshua Lane/Onaga Trail. The re-striping of a southbound shared lane to a southbound shared left-turn/through lane, and the addition of a southbound shared through/right-turn lane.~~
> - ~~Palomar Avenue/Yucca Trail. Install traffic signal~~
>
> ~~**4.15-1B** Pay all applicable Town traffic and signal impact fees.~~
>
> ~~**4.15-2A** Prior to issuance of certificates of occupancy, the project applicant shall pay all applicable CMP fair-share fees as determined by the TIA ($676,097).~~
>
> **4.15-3A** Prior to issuance of grading permits, the project applicant shall submit and receive Town approval of detailed grading and landscaping plans to ensure that grading elevation, height of landscaping, vegetation, fencing, monumentation, signage, and

other visual obstructions along the project site frontage do not obstruct the minimum sight distance requirement of 942 feet westerly from the proposed signalized driveway on SR-62. This area falls primarily within the proposed detention basin between the proposed signalized driveway and the proposed right in/out only driveway on SR-62.

3.18 TRIBAL CULTURAL RESOURCES

3.18.1 Summary of Impacts Identified in the Approved Project

At the time of preparation of the Certified EIR, tribal cultural resources was not one of the environmental topics within the CEQA Guidelines Appendix G Environmental Checklist.

3.18.2 Impacts Associated with the Proposed Project

Would the Project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place,	N/A	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
or object with cultural value to a California Native American tribe, and that is:					
i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or	N/A	No	No	No	**Yes**
ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall	N/A	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
consider the significance of the resource to a California Native American tribe.					

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Would the project cause a substantial adverse change in the significance of a tribal cultural resource, defined in Public Resources Code § 21074 as either a site, feature, place, cultural landscape that is geographically defined in terms of the size and scope of the landscape, sacred place, or object with cultural value to a California Native American tribe, and that is:

i) Listed or eligible for listing in the California Register of Historical Resources, or in a local register of historical resources as defined in Public Resources Code section 5020.1(k), or

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. As discussed under Impact 3.5(a), the project site is not listed in the California Register of Historical Resources, National Register of Historic Places, California State Historical Landmarks, or Points of Historical Interest or in a local register of historical resources. As identified in the approved project, regular maintenance, resurfacing, and widening to a four-lane thoroughfare have obliterated any remaining trace of the historic portions of Highway 62 within or adjacent to the project site (OHP 2025; NPS 2025; Yucca Valley 2022). The proposed project would be within the boundaries of the approved Specific Plan area and would not impact any known historical sources. Additionally, the Open Space and Conservation Element of the Town's General Plan states, "no Native American cultural resources that may have traditional or cultural significance have been

identified by records searches, literature reviews, and consultation with interested parties" within the Town (Yucca Valley 2022).

Further, as part of the SB 18 process, the NAHC sacred lands file (SLF) search was conducted and yielded a negative result, which indicates that no known sacred sites or tribal cultural resources existing within the project site or the vicinity. The NAHC provided a list of 14 California Native American tribes that are traditionally and culturally affiliated with the project site area and may have additional information. Pursuant to SB 18, the Town invited 14 tribes to consult based on NAHC's Native American Contact List—Agua Caliente Band of Cahuilla Indians, Augustine Band of Cahuilla Indians, Cabazon Band of Cahuilla Indians, Cahuilla Band of Indians, Los Coyotes Band of Cahuilla and Cupeño Indians, Quechan Indian Tribe of the Fort Yuma Reservation, Ramona Band of Cahuilla, San Manuel Band of Mission Indians, Santa Rosa Band of Cahuilla Indians, Serrano Nation of Mission Indians, Soboba Band of Luiseno Indians, Twenty-Nine Palms Band of Mission Indians, Morongo Band of Mission Indians, and Torres-Martinez Desert Cahuilla Indians. The invitation letters were sent to tribes on July 21, 2025, and July 25, 2025, via email and/or mail to the available addresses.

Four tribes responded to the request, and three requested formal consultation. The Twenty-nine Palms Band of Mission Indians responded on March 10, 2025, requesting formal consultation under SB 18. The Town met with the Tribe on July 10, 2025. The Morongo Band of Mission Indians responded on March 27, 2025, requesting formal consultation under SB 18. The Town provided a draft version of this Addendum to the Tribe and received no response or comments. The Yuhaaviatam of San Manuel Nation responded on August 5, 2025, confirming formal consultation is not required, and shared recommended mitigation measures. The Agua Caliente Band of Cahuilla Indians responded on August 5, 2025, requesting formal consultation under SB 18. The Town met with the Tribe on August 6, 2025, and the Tribe followed up after the meeting via email with a letter requesting the presence of an approved Cultural Resource Monitor(s) from a Consulting Tribe during any ground-disturbing activities.

The Morongo Band of Mission Indians, Yuhaaviatam of San Manuel Nation, Agua Caliente Band of Cahuilla Indians, and Twenty-Nine Palms Band of Mission Indians also requested the presence of a tribal cultural monitor during ground disturbing activities, due to the potential of unearthing unknown resources. Mitigation Measure 4.5.2B would be implemented to ensure that impacts related to tribal cultural resources are less than significant. With the incorporation of Mitigation Measure 4.5.2B, impacts to tribal cultural resources would be less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR

under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

ii) A resource determined by the lead agency, in its discretion and supported by substantial evidence, to be significant pursuant to criteria set forth in subdivision (c) of Public Resources Code § 5024.1. In applying the criteria set forth in subdivision (c) of Public Resource Code § 5024.1, the lead agency shall consider the significance of the resource to a California Native American tribe.

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The project site is developed with the existing Walmart Supercenter parking lot and is surrounded by a mix of commercial and retail uses along SR-62. The NAHC's Sacred Lands File record search received a negative result on July 17, 2025; thus, no tribal resources are known to exist within the project site.

As described under the prior threshold, consultation was conducted pursuant to SB 18 and several tribes requested the presence of a tribal cultural monitor during ground-disturbing activities. Mitigation Measure 4.5.2B would be implemented to ensure that impacts related to tribal cultural resources are less than significant.

Additionally, as discussed in Section 3.5, *Cultural Resources*, in the unlikely event human remains are encountered during ground-disturbing activities the human remains would be treated in accordance with procedures and requirements in Sections 5097.94 and 5097.98 of the Public Resources Code; Section 7050.5 of the California Health and Safety Code; and CEQA Guidelines Section 15064.5. However, as discussed in Impact 3.18(a)(i) above, multiple tribes requested to be contacted in the event tribal cultural resources are uncovered due to the potential of unearthing unknown tribal cultural resources. With the incorporation of Mitigation Measure 4.5.2B, impacts to tribal cultural resources would be less than significant.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.18.3 Adopted Mitigation Measures Applicable to the Proposed Project

The following applicable mitigation measures were taken directly from the Certified EIR and would be incorporated as part of the proposed project. Applicable mitigation measures from

the Certified EIR have been incorporated into the proposed project's mitigation monitoring and reporting program. Any modifications to these mitigation measures are shown in ~~strikethrough~~ for deleted text and underline for new, inserted text.

The Certified EIR Mitigation Measure 4.5.2B (as modified) would apply to the proposed project and is provided in Section 3.5, *Cultural Resources*.

3.19 Utilities and Service Systems

3.19.1 Summary of Impacts Identified in the Approved Project

- **Relocation or Construction of New or Expanded Utility Facilities.** The Certified EIR determined that development under the approved project would increase demand for water supply, wastewater treatment, storm drainage, and other utilities, including electricity, natural gas, and telecommunications. However, the Certified EIR found that all necessary utility connections could be accommodated within existing or planned infrastructure systems.. Impacts were determined to be less than significant.

- **Sufficiency of Water Supplies**. The Certified EIR found that the Hi-Desert Water District (HDWD) had adequate water supplies to serve the approved project and other planned development under normal, dry, and multiple-dry-year conditions. Impacts related to water-supply sufficiency were less than significant.

- **Adequate Wastewater Treatment Capacity**. At the time of the Certified EIR, the Town of Yucca Valley did not operate a centralized wastewater collection or treatment system. The approved project was to utilize on-site septic systems, consistent with County standards for siting, percolation, and maintenance. Although the Certified EIR acknowledged that reliance on septic systems could constrain long-term regional growth, it concluded that the approved project would not individually necessitate expansion of treatment facilities or exceed the capacity of existing on-site systems. Therefore, wastewater impacts were found to be less than significant.

- **Solid Waste Generation and Landfill Capacity**. The Certified EIR found that construction and operation of the approved project would generate additional solid waste, but that disposal would continue to occur at regional landfill facilities with sufficient permitted capacity to accommodate the project's waste stream. With compliance to State requirements, the Certified EIR concluded that solid-waste generation would not exceed local or State capacity standards and that impacts would be less than significant.

- **Compliance with Solid Waste Regulations**. The Certified EIR determined that the approved project would be required to comply with all applicable federal, State, and local solid-waste

management regulations, including diversion and recycling mandates implemented through the Town's solid-waste collection contracts. The Certified EIR concluded that the approved project would comply with all applicable solid-waste statutes and regulations, and impacts would be less than significant.

3.19.2 Impacts Associated with the Proposed Project

Would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?	LTS	No	No	No	**Yes**
b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?	LTS	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	LTS	No	No	No	**Yes**
d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?	LTS	No	No	No	**Yes**
e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?	LTS	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Require or result in the relocation or construction of new or expanded water, wastewater treatment or storm water drainage, electric power, natural gas, or telecommunications facilities, the construction or relocation of which could cause significant environmental effects?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The proposed project would not result in changes to land use or zoning and would involve the conversion of a surface parking area to a fuel station with a convenience store, consistent with the approved project analyzed in the Certified EIR. The proposed project would continue to be served by existing and planned HDWD water facilities, on-site storm drainage infrastructure, and other utilities (electric, gas, and telecommunications).

The Certified EIR concluded that utility infrastructure demands generated by the approved project could be accommodated by existing or planned systems and would not require new off-site improvements that could result in significant environmental effects. The proposed project would not increase utility demands beyond what was previously analyzed. The relocated fuel station and new convenience store represent a minor modification to on-site utility connections but would not require expanded water supply, drainage, or energy infrastructure.

Accordingly, the proposed project would not result in the relocation or construction of new or expanded utility facilities that could cause significant environmental effects. Impacts would remain less than significant, consistent with the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Have sufficient water supplies available to serve the project and reasonably foreseeable future development during normal, dry and multiple dry years?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR determined that HDWD had adequate water supplies to serve the approved project, based on available groundwater resources and planned infrastructure improvements. Since certification of the EIR, HDWD has continued to maintain reliable groundwater supplies through local wells and conservation programs.

The proposed project would not substantially change water demand compared to the approved project. The relocated fuel station and small convenience store would require standard potable water connections, similar to the approved commercial development. No new water-intensive uses are proposed, and the project would remain subject to HDWD's connection, conservation, and water-efficiency requirements. Therefore, sufficient water supplies would be available to

serve the project during normal, dry, and multiple-dry-year conditions, and impacts would remain less than significant, consistent with the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. At the time of the Certified EIR, the Town of Yucca Valley relied on on-site septic systems. The approved project proposed to use on-site wastewater disposal consistent with County Environmental Health standards, and impacts were found to be less than significant.

Since that time, the HDWD Wastewater Reclamation Project has been completed, providing a centralized wastewater collection and treatment system for the Town of Yucca Valley. The proposed project would connect to this existing public sewer system rather than use septic disposal. As a result, wastewater management under the proposed project would be improved relative to the approved project, reducing the potential for localized groundwater or soil impacts.

The HDWD Wastewater Reclamation Facility currently operates with available capacity and has sufficient treatment capability to accommodate the project's minor wastewater generation. Therefore, the proposed project would not exceed treatment capacity or require expansion of facilities, and impacts would remain less than significant, consistent with and incrementally improved relative to the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) Generate solid waste in excess of state or local standards, or in excess of the capacity of local infrastructure, or otherwise impair the attainment of solid waste reduction goals?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR concluded that the approved project would generate solid waste that could be

accommodated by existing regional landfill capacity and that compliance with Assembly Bill 939 diversion requirements would ensure impacts remained less than significant.

The proposed project would generate similar quantities of solid waste as the approved project, primarily from commercial operations and customer waste associated with the fuel station and new convenience store. Disposal services would continue to be provided by the Town's contracted waste hauler, with waste directed to County-approved facilities with adequate capacity.

Since certification of the EIR, additional solid-waste reduction measures have been implemented under Senate Bill 1383, which establishes organic-waste recycling requirements. The proposed project would be required to comply with these regulations, further ensuring that landfill impacts remain less than significant. Therefore, impacts would remain less than significant, consistent with and marginally improved compared to the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

e) Comply with federal, state, and local management and reduction statutes and regulations related to solid waste?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The Certified EIR found that the approved project would comply with applicable State and local solid-waste management regulations, including diversion and recycling requirements under AB 939. The proposed project would be subject to the same, and now more stringent, solid-waste diversion requirements under SB 1383 and the Town's updated municipal code. The project would provide standard waste collection and recycling facilities consistent with Town requirements for commercial uses.

Compliance with these regulations would ensure that solid waste is properly managed and diverted from landfill disposal. Therefore, impacts related to compliance with solid-waste statutes and regulations would remain less than significant, consistent with the Certified EIR.

Consequently, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.19.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures were identified in the Certified EIR for Utilities and Service Systems. As discussed above, the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

3.20 Wildfire

3.20.1 Summary of Impacts Identified in the Approved Project

At the time of preparation of the Certified EIR wildfire was not one of the environmental topics within the CEQA Guidelines Appendix G Environmental Checklist. However, wildfire and emergency response plans were discussed in the Hazards and Hazardous Materials section and are summarized in Section 3.9, *Hazards and Hazardous Materials*, of this Addendum.

3.20.2 Impacts Associated with the Proposed Project

If located in or near state responsibility areas or lands classified as very high fire hazard severity zones, would the project:

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
a) Substantially impair an adopted emergency response plan or emergency evacuation plan?	N/A	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?	N/A	No	No	No	**Yes**
c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?	N/A	No	No	No	**Yes**

Environmental Issues	Level of Impact in Certified EIR	Conditions Requiring Subsequent Review			Proposed Project Meets the Conditions for an Addendum *CEQA Guidelines Section 15164*
		Change in Project or Circumstances Involving New or More Severe Significant Effects *CEQA Guidelines Section 15162(a)(1–2)*	**New Information Showing New or More Severe Significant Effects** *CEQA Guidelines Section 15162(a)(3)(A–B)*	**New Mitigation or Alternative to Reduce Significant Effect Is Declined** *CEQA Guidelines Section 15162(a)(3)(C–D)*	
d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?	N/A	No	No	No	**Yes**

Key: NI = no impact; LTS = less than significant; LTS/M = less than significant with mitigation; SU = significant and unavoidable; N/A = topic not analyzed in Certified EIR

a) Substantially impair an adopted emergency response plan or emergency evacuation plan?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The project site is located within a Local Responsibility Area (LRA) and is within an area designated as a moderate Fire Hazard Severity Zone (FHSZ) (CAL FIRE 2024). The nearest very high FHSZ, according to CAL FIRE, is within a State Responsibility Area (SRA) approximately 10.3 miles northwest of the project site (CAL FIRE 2024). Additionally, based on U.S. Forest Service Wildland-Urban Interface (WUI) mapping, the project site is not within the WUI; however, the project site is bounded by the WUI to the north across SR-62 (USFS 2020).

The Town of Yucca Valley maintains the 2025 Hazard Mitigation Plan (HMP), which is a plan to identify and profile hazard conditions, analyze risk to people and facilities, and develop mitigation actions to reduce or eliminate hazard risks in Yucca Valley. Although there is no local emergency evacuation plan available, the Western Riverside Council of Governments (WRCOG) in collaboration with the San Bernardino County Transportation Authority (SBCTA) identified evacuation routes in the region, which include SR-62 and Avalon Avenue. The proposed project's construction and equipment would be staged within the project site. As discussed in

Section 3.17, *Transportation*, the proposed project would not physically impede the circulation network and the surrounding roadways. Additionally, the proposed project would connect its driveway to the existing circulation infrastructure and would include a direct egress onto CA-62 that would not block the evacuation route. As with the approved project, project design and construction would be required to comply with applicable emergency access standards, and construction activities that might temporarily restrict access would be managed with traffic control measures to maintain emergency response capability. Therefore, the proposed project would result in a less than significant impact.

Although wildfire and associated impacts were not previously analyzed as part of the approved project, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

b) Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. Since certification of the EIR, the approved project site has been fully developed with the Walmart Supercenter and parking lot, which is generally flat with a slight slope along landscaped areas. The Town of Yucca Valley is intermittently impacted by Santa Ana winds, the hot, dry winds that blow across southern California in the spring and late fall (April through November) (Yucca Valley 2022). Santa Ana wind events can increase wildfire risk.

The proposed project would not construct a structure that would affect prevailing winds. The proposed project would be designed in accordance with the CBC and California Fire Code. Fire suppression equipment specific to construction would be maintained on site. Construction of the proposed project would comply with applicable codes and ordinances related to the maintenance of mechanical equipment, handling and storage of flammable materials, and cleanup of spills of flammable materials. Therefore, the proposed project would not expose project occupants to pollutant concentrations from wildfire or the uncontrolled spread of wildfire due to slope, prevailing winds, and other factors. Impacts would be less than significant.

Although wildfire and associated impacts were not previously analyzed as part of the approved project, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

c) Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or ongoing impacts to the environment?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The project site is in an LRA and is designated a moderate FHSZ (CAL FIRE 2024). The nearest very high FHSZ, according to CAL FIRE, is in an SRA approximately 10.3 miles northwest of the project site. Based on the U.S. Forest Service Wildland Urban Interface (WUI) mapping, the project site is not in the WUI; however, it is bounded by the WUI to the north across SR-62 (USFS 2020). The project site is in a developed area and would be served by existing utility infrastructure. The proposed project would be served by existing utility infrastructure and would connect to these utilities via underground connections.

The proposed project would be designed and constructed in accordance with the CBC and the California Fire Code, as adopted and enforced by the Town of Yucca Valley. The new driveway and utility connections would not exacerbate fire risk. Development of the proposed project would not require the installation of roads and fuel breaks. Therefore, the proposed project does not include the installation or maintenance of infrastructure that could exacerbate fire risk or result in temporary or ongoing impacts to the environment. Impacts would be less than significant.

Although wildfire and associated impacts were not previously analyzed as part of the approved project, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

d) Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes?

Project Meets the Conditions for an Addendum Pursuant to CEQA Guidelines Section 15164. The project site is within an LRA and is designated a moderate FHSZ (CAL FIRE 2024). As discussed in Section 3.7, *Geology and Soils*, and Section 3.10, *Hydrology and Water Quality*, the proposed project would result in a less than significant impact related to flooding, landslides, stormwater/drainage, and slope instability with adherence with CBC and the geotechnical engineering report recommendations. Therefore, the proposed project would not expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes. A less than significant impact would occur.

Although wildfire and associated impacts were not previously analyzed as part of the approved project, the proposed project would not result in new significant environmental effects or substantially increase the severity of previously identified significant effects and, therefore, would not trigger the need for preparation of a subsequent or supplemental EIR under the criteria in Public Resources Code Section 21166 and CEQA Guidelines Sections 15162(a) and 15163(a).

3.20.3 Adopted Mitigation Measures Applicable to the Proposed Project

No mitigation measures were adopted as part of the approved project's Certified EIR relating to wildfire. As discussed above, the proposed project is within the scope of the approved project, and no mitigation measures are warranted.

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4. FINDINGS

As summarized below, and for the reasons described in Section 3, *Environmental Analysis*, of this Addendum, the Town of Yucca Valley has concluded that the proposed project meets the conditions of CEQA Guidelines Section 15164 and that therefore an Addendum to the Certified EIR is the appropriate CEQA document to address the proposed project.

As previously discussed, under CEQA Guidelines Section 15164, an addendum to an EIR or MND may be prepared if only minor technical changes or additions are necessary or none of the conditions described in CEQA Guidelines Section 15162 calling for the preparation of a subsequent EIR or MND have occurred. The following restates the standards in CEQA Guidelines Section 15162 as they relate to the proposed project.

1. **No substantial changes are proposed in the project which would require major revisions of the previous EIR due to the involvement of new significant environmental effect or a substantial increase in the severity of previously identified significant effect.**

As discussed in Section 2.3 of this Addendum, the proposed project would construct a development of a new fuel station and convenience store within the northeastern portion of the existing Walmart Supercenter parking area. While the Certified EIR analyzed a fuel station as part of the overall development program, the specific location and design of the current proposed fueling facility differ from the original layout. However, the use, intensity, and environmental footprint are similar to the fuel station analyzed in the Certified EIR. Additionally, the proposed project includes the construction of a convenience store associated with the fuel station, which was not previously analyzed as part of the approved project.

The proposed project would remain within the previously approved Specific Plan area boundaries and would not introduce new land uses or expand the development footprint. Accordingly, no new or more severe impacts related to agriculture and forestry resources, cultural resources, hydrology and water quality, mineral resources, recreation, or tribal cultural resources would occur beyond those previously evaluated in the Certified EIR.

The inclusion of the convenience store was evaluated in this Addendum to determine the whether this use would result in potential impacts to aesthetics, hazardous materials, population and housing, public services, transportation, and utilities and service systems. The intensity and environmental footprint of the fuel station are similar to the approved project, and the proposed convenience store would be of a similar height. Due to existing development and vegetation surrounding the project site and distance from scenic resources, impacts to

aesthetics would be reduced to less than significant with adherence to local policies. Although the proposed convenience store would result in an increase in employment opportunities (six employment positions); the use of hazardous materials for operational purposes; minor increases in demand for public services, utilities, and service systems; and a negligible net increase in local traffic, adherence to applicable local, State, and federal policies and regulations would ensure that impacts related to hazardous materials, population and housing, public services, transportation, and utilities and service systems would remain less than significant.

At the time the Certified EIR was prepared, energy, greenhouse gas emissions, tribal cultural resources and wildfire were not included as separate environmental topics in the CEQA Guidelines Appendix G Environmental Checklist and, therefore, were not previously evaluated. Impacts associated with energy, GHG emissions, tribal cultural resources and wildfire under the proposed project have been evaluated in this Addendum and are determined to be less than significant. As discussed in Section 3.7, *Geology and Soils,* of this Addendum, although the proposed project is within the same boundaries as the approved project, the geotechnical report prepared for the proposed project included project-specific recommendations. These site-specific recommendations required minor modifications to Mitigation Measure 4.6.1A. With modification of Mitigation Measure 4.6.1A, impacts related to checklist items 3.7(c) and 3.7(d) would not result in a significant impact, consistent with the conclusions of the Certified EIR. Therefore, no substantial changes are proposed that will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

2. No substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

As discussed in Section 2.3 of this Addendum, the proposed project would construct a new fuel station and convenience store within the northeastern portion of the existing Walmart Supercenter parking lot. While the Certified EIR analyzed a fuel station as part of the overall development program, the specific location and design of the currently proposed fueling facility differ from the original layout.

Since certification of the EIR, the State has updated the California Building Energy Efficiency Standards. The 2022 Standards became effective in January 2023, and the State continues to update these standards on a three-year cycle. These updates are intended to improve building energy efficiency in new construction and do not represent a substantial or unusual change in circumstances (California Department of General Services 2024). No substantial changes have occurred within the project site or surrounding area that would alter the circumstances under which the approved project would be undertaken.

As described previously, the proposed project's revised fuel station location, inclusion of a convenience store, and associated employment opportunities would result in impacts that are less than or equal to those analyzed in the Certified EIR. Impacts to the environmental thresholds would remain similar to, or less than, those identified in the Certified EIR for the approved project. Additionally, impacts related to energy, greenhouse gas emissions, tribal cultural resources and wildfire, all of which were topics not previously analyzed, were found to be less than significant. Therefore, no major revisions to the Certified EIR are required, as the proposed project would not result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

3. No new information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:

A. The project will have one or more significant effects not discussed in the previous EIR or negative declaration

Similar to the approved project, the proposed project would construct a new fuel station. The proposed project's specific location and design of the proposed fueling facility differ from the original layout and includes a convenience store within the northeastern portion of the existing Walmart Supercenter parking. However, the change in location, layout and the inclusion of a convenience store would not result in new or increased significant environmental impacts. Environmental impacts under the proposed project would be considered less than or equal to those analyzed in the Certified EIR. Additionally, impacts to energy, greenhouse gas emissions tribal cultural resources and wildfire, which were not previously analyzed, were found to be less than significant. There is no new information of substantial importance that shows that the proposed project would have one or more significant effects not discussed in the previous EIR.

B. Significant effects previously examined will be substantially more severe than shown in the previous EIR;

The proposed project's specific location and design of the proposed fueling facility differ from the original layout and inclusion of a convenience store would result in similar or reduced physical environmental effects, as compared to the approved project. The proposed project would implement the applicable mitigation measures originally identified in the Certified EIR and referred to throughout this analysis under the heading *Adopted Mitigation Measures Applicable to the Proposed Project*. As substantiated in this analysis, no significant effects previously examined will be substantially more severe than shown in the previous EIR.

C. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or

The Certified EIR analyzed the following alternatives to the approved project:

1. **No Project**: Alternative 1, the No Project Alternative, would assume that the proposed project would not be approved and the fuel station component of the Specific Plan would not be established.

2. **Mixed Commercial/Office Alternative:** Alternative 2: the mixed commercial/office alternative would allow for the construction of 115,000 square feet of general office building, and approximately 115,000 square feet of retail uses.

3. **Off-Site Location Alternative**: Under the Off-Site Location Alternative, the project would result in the same level of development relocated to a suitable site at the northwest corner of Balsa Avenue and Yucca Trail

4. **Reduced Intensity Commercial**: Under this alternative, the project site would be developed with approximately half of the 233,000 square feet of uses envisioned under the proposed project. The 115,000 square feet of commercial uses under the Reduced Intensity Commercial Alternative would consist of a multi-tenant shopping center hosting a single mid-size anchor (50,000– 60,000 square feet).

D. No alternatives previously found to be infeasible would, in fact, be feasible under the proposed project. Mitigation Measures 4.1.1A, 4.3.2A, 4.6.2A, and 4.6.3A from the Certified EIR are not applicable to the proposed project and were therefore not incorporated. Furthermore, the modification to Mitigation Measure 4.6.1A, which requires adherence to the proposed project's geotechnical report, encompasses the intent of Certified EIR Mitigation Measures 4.6.1A, 4.6.2A, and 4.6.3A. As substantiated in Section 4 of this Addendum, the proposed project would result in impacts that are similar to or reduced compared to those identified for the approved project.

E. Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

The proposed project would result in environmental impacts that are similar to or less than those of the approved project. As stated previously, no new or more severe impacts would occur as a result of the proposed project. There is no new information

of substantial importance indicating that alternatives considerably different from those analyzed in the Certified EIR would substantially reduce one or more significant environmental effects. As discussed above, Mitigation Measures 4.1.1A, 4.3.2A, 4.6.2A, and 4.6.3A from the Certified EIR are not applicable to the proposed project and were therefore not incorporated. Furthermore, the modification to Mitigation Measure 4.6.1A, which requires adherence to the proposed project's geotechnical report, encompasses the intent of Certified EIR Mitigation Measures 4.6.1A, 4.6.2A, and 4.6.3A.

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APPENDIX A, AIR QUALITY AND GREENHOUSE GAS EIR ADDENDUM ANALYSIS MEMORANDUM

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MEMORANDUM

To:	Town of Yucca Valley Planning Division
From:	Alex Pohlman, Kimley-Horn and Associates, Inc.
Date:	August 27, 2025
Subject:	Yucca Valley Walmart Fuel Station – Air Quality and Greenhouse Gas EIR Addendum Analysis

PURPOSE

This comparative air quality impacts analysis has been undertaken to analyze whether the proposed Yucca Valley Walmart Fuel Station Project (Project) would result in any new or substantially more severe significant environmental impacts as compared to the conclusions discussed in the certified Yucca Valley Retail Specific Plan (Original Project) Environmental Impact Report (Final EIR) that was certified on June 25, 2008. The purpose of this technical memorandum is to document whether any new air quality or greenhouse gas (GHG) impacts would occur based on the proposed updates to the Project (described below) pursuant to Public Resources Code, Section 21166 or State CEQA Guidelines Section 15162.

ORIGINAL PROJECT

The Final EIR for the Original Project analyzed the development of a commercial retail center on approximately 25.51 acres located on the southeast corner of Twentynine Palms Highway (SR-62) and Avalon Avenue. The EIR analysis for the Original Project included a 229,000-square foot Walmart Supercenter, a fuel station, a 4,000-square foot fast-food restaurant with drive-through, and a detention basin. However, the Specific Plan, approved on August 14, 2008, did not include the fuel station as a permitted use and the area designated in the EIR for the fuel station and a 4,000-square foot fast-food restaurant with drive-through was ultimately developed with two smaller fast-food restaurants instead.

PROPOSED PROJECT

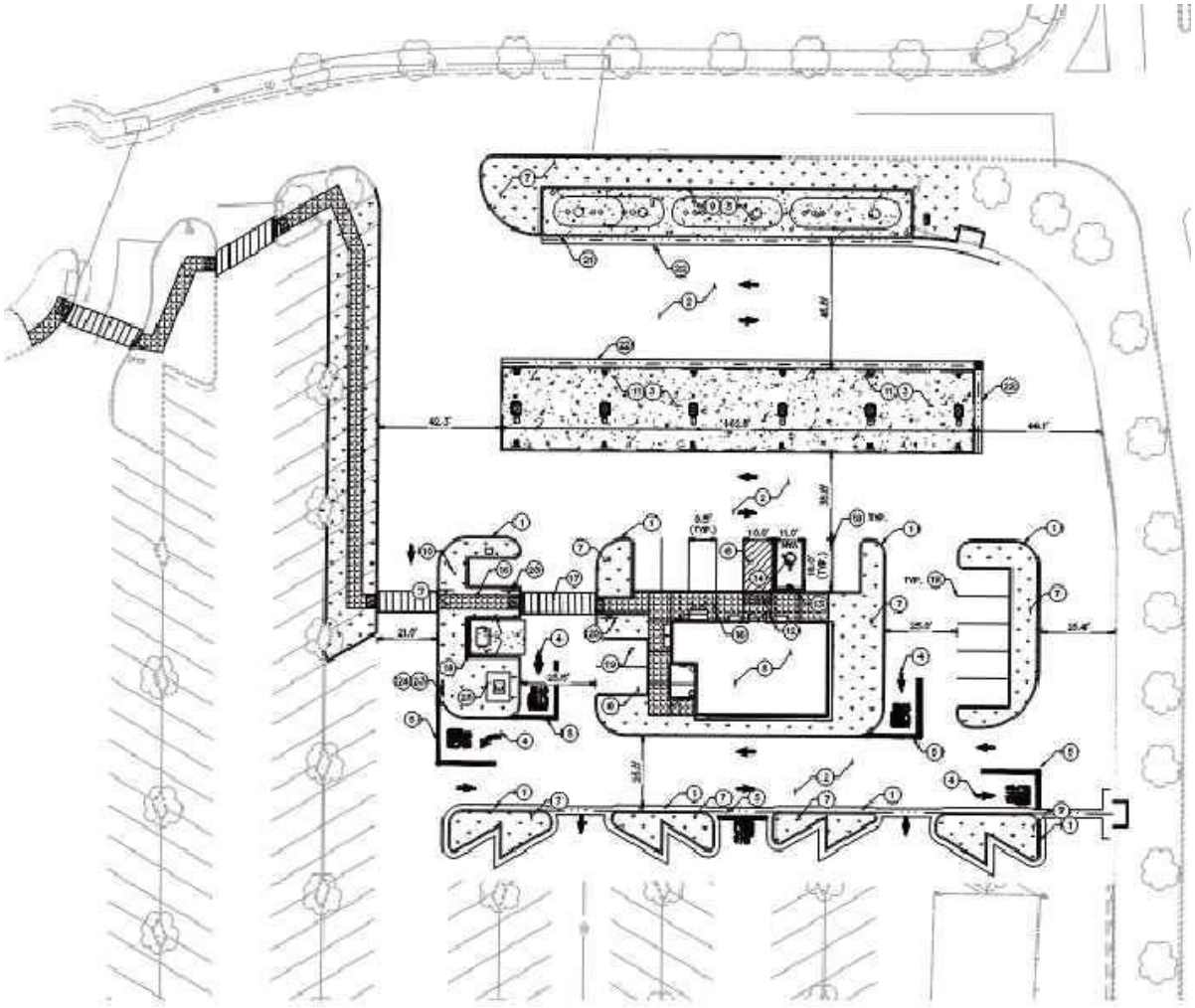
The proposed Project involves the development of a fuel station similar to the one previously analyzed in the Final EIR, although in a different location. The fuel station would be located in the northeastern portion of the existing parking lot, south of the detention basin and SR-62, see **Exhibit 1: Local Vicinity Map** and **Exhibit 2: Conceptual Site Plan**.

Source: ArcGIS Pro

EXHIBIT 1: Local Vicinity Map
Yucca Valley Fuel Station Project

Not to Scale

Kimley»Horn
Expect More. Experience Better.



WALMART FUEL STATION - STORE #1915
58501 TWENTYNINE PALMS HIGHWAY, YUCCA VALLEY, CA 92284

Source: Kimley-Horn Traffic Scoping Agreement

EXHIBIT 2: Conceptual Site Plan
Yucca Valley Walmart Fuel Station Project

Not to Scale

Kimley»Horn
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AIR QUALITY ANALYSIS

Previous Significance Determination: The Final EIR determined that the Original Project, which included a fuel station, was consistent with applicable air quality plans and policies. However, the Final EIR also determined that the Original Project would generate short-term construction emissions and long-term operational emissions that would exceed the Mojave Desert Air Quality Management District's (MDAQMD's) significance thresholds for criteria pollutants. The Final EIR identified mitigation measure 4.3.1A, which includes requirements for reducing equipment emissions and requirements during construction activities to prevent impacting traffic during peak hours; however, impacts remained significant and unavoidable.

Proposed Project Analysis:

Threshold (a) Conflict with or obstruct implementation of the applicable air quality plan.

As discussed in the Final EIR, the Original Project is consistent with the MDAQMD Air Quality Management Plan (AQMP), and as a result, the impacts of the Original Project are less than significant.

The proposed Project would be consistent with development in the area and applicable AQMP assumptions. The proposed Project would result in a similar number of permanent jobs as compared to the Original Project. Therefore, no new impacts from air quality emissions or a substantial increase in the severity of a previously identified impacts evaluated in the Final EIR would be caused by the proposed Project.

Mitigation Program

None identified in the Original Project Final EIR.

Conclusion

Project development would not result in any new impacts, or increase the severity of the previously identified impacts, with respect to compliance with applicable air quality plans. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Certified EIR was certified is available that would change the significance determination for the Original Project in the Final EIR. This impact remains less than significant.

Threshold (b) Violate an air quality standard or contribute to an existing or projected air quality violation.

The proposed Project is under the jurisdiction of the MDAQMD and is located within the Mojave Desert Air Basin (MDAB). The MDAB includes the desert portions of Los Angeles, Riverside, San Bernardino, and Kern counties. The MDAB is in a federal and state non-attainment area for ozone and PM_{10}; and a state nonattainment area for particulate matter 2.5 microns in diameter or less

($PM_{2.5}$). An area is considered to be in non-attainment status when air pollution persistently exceeds the State or National Ambient Air Quality Standards.

Construction Emissions

The Project includes the demolition of an area of the existing parking lot, site preparation, grading, building construction, paving, and architectural coating. Predicted maximum daily construction-generated emissions during each year construction activities occurred are summarized in **Table 1: Construction-Related Emissions** and compared with the construction emissions identified in the Final EIR. It should be noted that the Final EIR based its construction emission analysis on the grading phase of the Original Project and used the Urban Emission (URBEMIS) model 2002 to calculate emissions. The URBEMIS software is now outdated and was replaced with California Emission Estimator Model (CalEEMod) in February 2011. This analysis has been prepared using CalEEMod version 2022.1.1.29, the most recent version available.

Table 1: Construction-Related Emissions

Source	Emissions (Pounds per Day)					
	ROG	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Original Project[1]						
Total Construction Emissions: No Mitigation	18	275	120	25	794	NA
Total Construction Emissions: With Mitigation	18	275	120	25	401	NA
MDAQMD Threshold[2]	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**No**	**Yes**	**No**	**No**	**Yes**	**No**
Proposed Project[3]						
Construction Year 2025	1.69	23.6	17.8	0.08	13.7	4.23
Construction Year 2026	1.19	8.58	9.99	0.02	0.35	0.27
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**No**	**No**	**No**	**No**	**No**	**No**

ROG= reactive organic gases; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides; PM_{10} = particulate matter 10 microns in diameter or less; $PM_{2.5}$ = particulate matter 2.5 microns in diameter or less; NA = data not available

1. Original Project emissions are from Final EIR, Table 4.3.M, page 4.3-38.
2. MDAQMD CEQA Guidelines, Page 9, February 2020.
3. Emissions modeled with CalEEMod version 2022. Refer to Appendix A for model outputs.

The construction emissions for the Proposed Project in **Table 1** have been conservatively modeled without mitigation and with construction beginning in 2025 and concluding in 2026.[1] As

[1] A conservative worst-case construction timeline has been modeled for analysis purposes. This involves modeling emissions at the earliest feasible date. Emissions in future years (i.e., due to a later construction start date or operational opening year) would be lower due to phased-in emissions standards, inspection and maintenance requirements, and fleet turnover). Project construction that occurs at a later date than what was modeled impacts would result in lower emissions than those analyzed due to the use of more energy-efficient and cleaner burning construction vehicle fleet mix, pursuant to state regulations that require vehicle fleet operators to phase-in less polluting heavy-duty equipment. As a result, Project-related construction emissions would be lower than the impacts disclosed herein. For emissions modeling purposes, conservatively analyzing the emissions using an earlier construction start date provides for a worst-case analysis and full disclosure of potential air quality impacts, as required by CEQA.

shown in **Table 1**, the maximum daily emissions would remain below the construction emissions calculated for the Original Project and below MDAQMD's thresholds for all criteria pollutants. As a result, impacts associated with the construction of the proposed Project would be less than significant and would not require any additional mitigation.

Operational Emissions

The main source of air pollutant emissions during operations is from motor vehicles. As noted above, the Final EIR determined that original Project would exceed operational emission thresholds for CO, VOC, NO_X, and PM_{10}. However, the Air Quality Impact Analysis, Appendix B of the Final EIR, separates the operational emissions by land use; therefore, the emissions associated specifically with the fuel station can be compared with the proposed Project. Based on the Project Trip Generation Analysis in the Traffic Scoping Agreement, the proposed Project would generate 826 daily trips, 52 daily trips more than the 774 trips anticipated for the gas station in the Final EIR.

Operational emissions associated with the Original Project and proposed Project are summarized in **Table 2: Operational-Related Emissions**. As shown in **Table 2**, the proposed Project's operational emissions are below MDAQMD's criteria pollutant thresholds. Although the proposed Project's emissions are below the MDAQMD's thresholds, operational emissions are slightly higher than the SO_X and PM_{10} emissions modeled for the fuel station in the Final EIR. This increase in emissions is likely the result of changing the models from the outdated URBEMIS model to the current version of CalEEMod, as the models calculate emissions differently. Although the proposed Project would generate 52 more daily trips than the Original Project, the emission rates for vehicles have decreased since the analysis for the EIR was conducted in 2006, due to regulatory requirements, technology improvements, and fleet turnover. However, the increase of these pollutants would not change the results when combined with the total emissions of the Original Project. As a result, impacts associated with the construction of the proposed Project would be less than significant and would not require any additional mitigation.

Table 2: Operational-Related Emissions						
Source	**Emissions (Pounds per Day)**					
	ROG	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Original Project[1]						
Total Original Project's Emissions	140	250	1,500	0.94	190	36
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**Yes**	**Yes**	**Yes**	**No**	**Yes**	**No**
Original Project, Fuel Station Emissions Only[2]						
Fuel Station Emissions	5.82	10.42	73.00	0.65	7.95	NA
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
Proposed Project[3]						
Fuel Station Emissions	4.92	5.97	51.6	0.12	9.92	2.58
MDAQMD Threshold	*137*	*137*	*548*	*137*	*82*	*65*
Exceed MDAQMD Threshold?	**No**	**No**	**No**	**No**	**No**	**No**
ROG= reactive organic gases; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides; PM_{10} = particulate matter 10 microns in diameter or less; $PM_{2.5}$ = particulate matter 2.5 microns in diameter or less; NA = data not available						
1. Original Project emissions are from Final EIR, Table 4.3.N, page 4.3-41. 2. Original Project fuel station emissions are from Air Quality Analysis, Appendix A URBEMIS 2002 Model Printouts, page 7, Mitigated Operational Emissions (Draft EIR Appendix B). 3. Emissions modeled with CalEEMod version 2022. Refer to Appendix A for model outputs.						

The Final EIR identified construction and operational exceedances of MDAQMD thresholds for criteria air pollutants and concluded that the Original Project would result in a significant and unavoidable impact. However, the proposed Project would not exceed any MDAQMD thresholds and therefore would result in a less than significant impact. The Final EIR identified Mitigation Measure 4.3.1A to reduce construction emissions of criteria pollutants, which would still be required as part of the EIR to reduce cumulative impacts.

Mitigation Program

The following applicable Mitigation Measure is identified in the Final EIR. No additional mitigation measures are required.

4.3.1A Prior to issuance of grading permits, the construction contractor shall provide evidence showing that the following measures shall be implemented to reduce NO_X and PM_{10} emissions from ground disturbance and VOC emissions from application of architectural coatings:

- The construction contractor shall select the construction equipment used on site based on low emission factors and high energy efficiency. The construction contractor shall ensure that construction grading plans include a statement that all

construction equipment will be tuned and maintained in accordance with the manufacturer's specifications.

- The construction contractor shall demonstrate to the Town that construction activities shall make use of alternatively fueled equipment or catalyst-equipped diesel powered equipment to the extent such alternative fuels are available.
- The construction contractor shall ensure that construction grading plans include a statement that work crews will shut off equipment when not in use.
- The construction contractor shall time the construction activities so as not to interfere with peak hour traffic and to minimize obstruction of through traffic lanes adjacent to the site; if necessary, a flagperson shall be retained to maintain safety adjacent to existing roadways.
- The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew.
- The construction contractor shall demonstrate compliance with the fugitive dust suppression measures 403 a) through 403 e) contained in MDAQMD Rule 403.
- The construction contractor shall demonstrate compliance with the VOC suppression measures contained in MDAQMD 1113.
- The construction contractor shall apply non-toxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more).
- The construction contractor shall water active sites at least twice daily (Locations where grading is to occur shall be thoroughly watered prior to earthmoving).
- The construction contractor shall provide evidence to the Town that all trucks hauling dirt, sand, soil, or maintain at least two feet of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code (CVC) section 23114.
- The construction contractor shall pave construction access roads at least 100 feet onto the site from the main road.
- The construction contractor shall promote the reduction of traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.

Conclusion

No new impact relative to air quality emissions evaluated in the Original Project Final EIR would occur with the development of the proposed Project. Although the Final EIR determined that the Original Project would result in a significant and unavoidable impact, improvements to equipment and engine efficiencies over time have reduced Project emissions to a less than significant level.

Threshold (c) Expose sensitive receptors to substantial pollutant concentrations.

The Final EIR determined that the exposure of sensitive receptors to harmful pollutant concentrations associated with the Original Project would be less than significant. The Final EIR analyzed CO emission hotspots from the vehicular traffic increase in local areas as well as diesel emissions from truck deliveries as a result of the Original Project.

The Final EIR studied 22 intersections in the project vicinity and determined that none of the studied intersections would exceed State standards. As shown in **Table 2**, CO emissions generated by the proposed Project would be lower than those modeled for the Original Project. Therefore, the development of proposed Project would not result in CO hotspots.

The Final EIR also determined that operational health risk impacts would be less than significant.[2] Typical Sources of carcinogenic and chronically hazardous toxic air contaminants (TACs) mostly include diesel particulate matter (DPM) from trucks and industrial manufacturing processes. As with the Original Project, the proposed Project would include delivery trucks which would generate DPM. The analysis for the Final EIR determined that emissions would not exceed the 10 in one million carcinogenic health risk threshold or the 1.0 chronic health index threshold.

Although it is not discussed in the Final EIR, TACs would also be generated by the fueling station component of the Original Project. Of the toxic compounds emitted from gasoline stations, benzene, ethylbenzene, and naphthalene have cancer toxicity values. However, benzene is the TAC which drives the risk, accounting for 87 percent of cancer risk from gasoline vapors and constitutes more than three to four times the weight of gasoline than ethylbenzene and naphthalene, respectively. Therefore, ethylbenzene and naphthalene have not been modeled and are instead considered significant in the case that benzene emissions are significant. Benzene emissions associated with the proposed Project were computed based on the maximum anticipated throughput of fuel (i.e., approximately 5.0 million gallons per year), used CARB emission factors for fuel dispensing facilities, and assumed that benzene makes up 0.46 percent of gasoline vapor.[3]

A Health Risk Assessment (HRA) was prepared separately for the proposed Project. The HRA determined that the health risk at the maximally exposed receptor, including DPM from construction equipment, DPM from truck deliveries during operations, and benzene emissions from the operation of the fuel station, would not exceed the cancer risk, chronic health risk, or acute health risk thresholds (refer to Yucca Valley Walmart Fuel Station - Health Risk Assessment).

[2] Final EIR Yucca Valley Retail Specific Plan, 2008. Table 4.3.J page 4.3-34
[3] CARB, Gasoline Service Station Industrywide Risk Assessment Technical Guidance, January 2022

Mitigation Program

None identified in the Final EIR. No additional mitigation measures are required.

Conclusion

No new impact relative to air quality emissions evaluated in the Original Project Final EIR would occur with the development of the proposed Project. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Final EIR was certified is available that would alter the Final EIR's significance finding. This impact remains less than significant.

Threshold (d) Create objectionable odors affecting a substantial number of people.

The MDAQMD regulates odors through Rule 402 (Nuisance). Rule 402 prohibits the discharge from any source that cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property. Typical land uses that generate odors include agriculture (farming and livestock), wastewater treatment plants, food processing plants, chemical plants, composting facilities, refineries, landfills, dairies, and fiberglass molding.

During construction-related activities, some odors (not substantial pollutant concentrations) that may be detected are those typical of construction vehicles (e.g. diesel exhaust from grading and construction equipment). These odors are a temporary short-term impact that is typical of construction projects and would disperse rapidly.

The Final EIR for the Original Project determined that odors associated with the Original Project would be less than significant. Consistent with the Original Project, the proposed Project would not include any of the land uses that have been identified by the MDAQMD as odor sources. Therefore, the Project would not create objectionable odors.

Mitigation Program

None identified in the Final EIR. No additional mitigation measures are required.

Conclusion

No new impact relative to air quality emissions evaluated in the Original Project Final EIR would occur with the development of the proposed Project. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Final EIR was certified is available that would alter the Final EIR's significance finding. This impact remains less than significant.

GREENHOUSE GAS ANALYSIS

Previous Significance Determination: The Certified EIR analyzed GHG emissions from the Original Project for informational purposes only, as GHG emission analysis was not required by CEQA at that time and there was no quantifiable emission threshold.

The Final EIR used URBEMIS and calculated that the Original Project would generate 7,124 metric tons of carbon dioxide equivalent ($MTCO_2e$) per year. However, the fuel station component was not analyzed separately in the Final EIR. Therefore, for this analysis, GHG emissions for the fuel station from the Original Project were calculated using CalEEMod 2022 using emission rates from 2010, (although opening year was originally modeled as 2007, CalEEMod emission rates only go back to 2010. Using 2010 emissions would be conservative when calculating emissions because emission rates improve in future years due to improvements in engines and fuel efficiency, as a result 2010 emissions would be lower than 2007 emissions).

Using CalEEMod 2022 with 2010 emission rates, the fuel station from the Original Project was estimated to generate 2,351 $MTOC_2e$ per year during operation. However, as discussed earlier, MDAQMD did not have a GHG threshold at this time, therefore the analysis for the Final EIR was based on consistency with GHG reduction strategies that would reduce GHG emissions. These strategies should not be construed as mitigation as they are either existing standards required of all developments or are voluntary programs. The Final EIR acknowledges that although these strategies may reduce GHG emissions it was not possible at that time to quantify reductions in GHG emissions. However, the Original Project was found to be consistent with proposed reduction strategies. As a result, the Original Project's GHG emissions impact was found to be less than significant.

Proposed Project Analysis:

Threshold (e) Conflict with the emission reduction strategies contained in the California Climate Action Team's Report to the Governor.

Construction GHG Emissions

The proposed Project would result in direct emissions of CO_2, N_2O, and CH_4 from construction equipment and the transport of materials and construction workers to and from the project site. The GHG emissions would only occur during temporary construction activities and would cease once construction is complete. The total GHG emissions generated during the construction of the proposed Project are shown in **Table 3: Proposed Project – Construction Related Greenhouse Gas Emissions**. Construction GHG emissions are typically summed and

amortized over the lifetime of the project (assumed to be 30 years), then added to the operational emissions.[4]

Table 3: Proposed Project - Construction Related Greenhouse Gas Emissions	
Category	**$MTCO_2e$**
Total Construction Emissions	102.3
30-Year Amortized Construction	3.41
Source CalEEMod version 2022. Refer to **Appendix A** for model outputs.	

As shown in **Table 3**, the proposed Project would result in the generation of approximately 102.3 $MTCO_2e$ throughout the course of construction. The amortized Project construction emissions would be 3.41 $MTCO_2e$ per year. Once construction is complete, the generation of these GHG emissions would cease.

Operational GHG Emissions

Operational emissions occur over the life of the Project. GHG emissions would result from direct emissions such as project-generated vehicular traffic including passenger automobiles and trucks, and from indirect sources such as off-site generation of electrical power, the energy required to convey water and wastewater to and from the Project, the emissions associated with solid waste generated from the Project, and any fugitive refrigerants from air conditioning or refrigerators. GHG emissions associated with the Project are summarized in **Table 4: Proposed Project Operational Greenhouse Gas Emissions**. Construction GHG emissions have been amortized over a 30-year period and added to the total operational emissions of a project to ensure that GHG reduction strategies address construction emissions as part of the overall operation.

As shown in **Table 4**, the proposed Project would generate 1,960.29 $MTCO_2e$ of GHG emissions which is less than the 2,351 $MTCO_2e$ assumed for the fuel station component of the Original Project. As discussed previously, the Final EIR was prepared before MDAQMD had adopted the 100,000 short ton threshold (approximately 90,718 $MTCO_2e$). Instead, the Final EIR based GHG impacts based on consistency with GHG reduction strategies that would reduce GHG emissions. However, these GHG reduction strategies are now required under the California Air Resources Board (CARB) Scoping Plan. As a result, the proposed Project would be consistent with the original GHG reduction strategies and as shown in **Table 4**, would generate less emissions than both the Original Project and MDAQMD's current GHG threshold. Therefore, impacts related to GHG emissions would be less than significant.

[4] The project lifetime is based on the standard 30-year assumption of the South Coast Air Quality Management District (South Coast Air Quality Management District, Minutes for the GHG CEQA Significance Threshold Stakeholder Working Group #13, August 26, 2009).

Table 4: Proposed Project Operational Greenhouse Gas Emissions	
Source	**Emissions ($MTCO_2e$ per Year)[1]**
Proposed Project	
Construction Amortized Over 30 Years	3.41
Mobile Sources	1,886
Area Source	0.02
Energy	16.5
Water and Wastewater	0.17
Solid Waste	0.79
Refrigerants	53.4
Total	1,960.29
MDAQMD Threshold	90,718
Exceed MDAQMD Threshold?	**No**
1. Emissions modeled with CalEEMod version 2022. Refer to **Appendix A** for model outputs.	

Mitigation Program

None identified in the Final EIR. No additional mitigation measures are required.

Conclusion

No new impact relative to GHG emissions evaluated in the Original Project Final EIR would occur with the development of the proposed Project. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Final EIR was certified is available that would alter the Final EIR's significance finding. This impact remains less than significant.

Appendix A

Air Quality and Greenhouse Gas Data

Walmart Fuel Station
CalEEMod Assumptions

Land Use

Land Use	Size	Metric
Convenience Market with Gas Pumps	6	Pump
Parking Lot	51.1	KSF
KSF = thousand square feet; Pump = fuel pump		

Construction

Schedule

Phase Name	Start Date	End Date	Workdays
Demolition	11/11/2025	11/17/2025	5
Site Preparation	11/18/2025	11/26/2025	7
Grading	11/27/2025	11/28/2025	2
Building Construction	11/29/2025	3/3/2026	67
Paving	3/4/2026	3/20/2026	13
Architectural Coating	3/21/2026	4/17/2026	20

Equipment

Construction Phase	Equipment	Number per Day	Hours Per Day
Demolition	Tractors/Loaders/Backhoes	3	8
	Rubber Tired Dozers	1	8
	Concrete/Industrial Saws	1	8
Site Preparation	Graders	1	8
	Rubber Tired Dozers	1	7
	Tractors/Loaders/Backhoes	1	8
Grading	Graders	1	8
	Rubber Tired Dozers	1	8
	Tractors/Loaders/Backhoes	2	7
Building Construction	Cranes	1	6
	Forklifts	1	6
	Generator	1	8
	Tractors/Loaders/Backhoes	1	6
Paving	Tractors/Loaders/Backhoes	1	8
	Paving Equipment	1	8
	Pavers	1	6
	Rollers	1	7
Architectural Coating	Air Compressors	1	6

Grading/Earthwork

Phase	Import (CY)	Export (CY)	Haul Distance (mi)
Site Preparation	0	351.3	20
Grading	0	491.82	20
CY = cubic yards; mi = miles			

Worker, Vendor, and Haul Trips

Trip Type	# One-Way Trips/Day	Trip Length (miles)
Demolition		
Worker	12.5	18.5
Vendor	0	10.2
Hauling	119	20
On-Site Truck	0	0
Site Preparation		
Worker	7.8	18.5
Vendor	0	10.2
Hauling	6.29	20
On-Site Truck	0	0
Grading		
Worker	10	18.5
Vendor	0	10.2
Hauling	31	20
On-Site Truck	0	0
Building Construction		
Worker	10	18.5
Vendor	4	10.2
Hauling	0	20
On-Site Truck	0	0
Paving		
Worker	12.5	18.5
Vendor	0	10.2
Hauling	0	20
On-Site Truck	0	0
Architectural Coating		
Worker	2	18.5
Vendor	0	10.2
Hauling	0	20
On-Site Truck	0	0

Demolition

Phase	Amount (tons)
Demolition	2,384
tons = tons of debris	

Operations

Vehicle Data

Land Use	Size	Metric	Trip Rate	Daily Trip Generation
Convenience Market with Gas Pumps	6	Pump	137.6667	826
Parking Lot	51.1	KSF	0	0
Total Daily Trips	-	-	-	**826**
KSF = thousand square feet; Pump = fuel pumps				
100% primary trips; trip lengths and trip type distributions are CalEEMod defaults				

Trip Length

Land Use	Trip Length (miles)		
	Non-Res H-W / Res H-W	Non-Res W-O / Res H-S	Non-Res O-O / Res H-O
Convenience Market with Gas Pumps	45.81	24.75	5.05
Parking Lot	0	0	0

Trip Purpose and Percent

Land Use	Trip Percent (%)			Trip Purpose (%)		
	Primary	Diverted	Pass-By	Non-Res H-W / Res H-W	Non-Res W-O / Res H-S	Non-Res O-O / Res H-O
Convenience Market with Gas Pumps	100	0	0	23.45	11.35	65.18
Parking Lot	0	0	0	0	0	0

Fleet Mix

Land Use	HHD %	LDA %	LDT1 %	LDT2 %	LHD1 %	LHD2 %	MCY %	MDV %	MH %	MHD %	OBUS %	SBUS %	UBUS %
Convenience Market with Gas Pumps	1.95	48.63	4.44	20.86	3.46	0.93	2.63	15.74	0.60	0.54	0.04	0.10	0.02
Parking Lot	1.95	48.63	4.44	20.86	3.46	0.93	2.63	15.74	0.60	0.54	0.04	0.10	0.02

Walmart Fuel Operations-Yucca Valley Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Walmart Fuel Operations-Yucca Valley
Construction Start Date	3/3/2025
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	14.4
Location	58501 29 Palms Hwy, Yucca Valley, CA 92284, USA
County	San Bernardino-Mojave Desert
City	Yucca Valley
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5142
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.29

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Convenience Market with Gas Pumps	6.00	Pump	0.02	1,556	0.00	0.00	—	—
Parking Lot	51.1	1000sqft	1.17	0.00	1,790	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.22	1.19	0.86	1.14	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	135	135	0.01	< 0.005	< 0.005	135
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.99	1.69	23.6	17.8	0.08	0.73	13.0	13.7	0.68	3.60	4.23	—	10,796	10,796	0.12	1.33	0.47	11,195
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.25	0.22	1.25	1.53	< 0.005	0.05	0.35	0.39	0.04	0.11	0.15	—	341	341	0.01	0.02	0.13	348
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.04	0.04	0.23	0.28	< 0.005	0.01	0.06	0.07	0.01	0.02	0.03	—	56.4	56.4	< 0.005	< 0.005	0.02	57.6
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137	137	548	137	—	—	82.0	—	—	82.0	—	—	—	—	—	—	—

Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137	137	548	137	—	—	82.0	—	—	82.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	25.0	25.0	100	25.0	—	—	15.0	—	—	15.0	—	—	—	—	—	—	100,000
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	No

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.22	1.19	0.86	1.14	< 0.005	0.02	< 0.005	0.02	0.02	< 0.005	0.02	—	135	135	0.01	< 0.005	< 0.005	135
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	1.99	1.69	23.6	17.8	0.08	0.73	13.0	13.7	0.68	3.60	4.23	—	10,796	10,796	0.12	1.33	0.47	11,195
2026	1.22	1.19	8.58	9.99	0.02	0.29	0.16	0.35	0.27	0.04	0.27	—	1,815	1,815	0.07	0.02	0.02	1,822
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.15	0.13	1.24	1.22	< 0.005	0.05	0.35	0.39	0.04	0.11	0.15	—	341	341	0.01	0.02	0.13	348
2026	0.25	0.22	1.25	1.53	< 0.005	0.04	0.01	0.05	0.04	< 0.005	0.04	—	269	269	0.01	< 0.005	0.01	270
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.03	0.02	0.23	0.22	< 0.005	0.01	0.06	0.07	0.01	0.02	0.03	—	56.4	56.4	< 0.005	< 0.005	0.02	57.6
2026	0.04	0.04	0.23	0.28	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	—	44.5	44.5	< 0.005	< 0.005	< 0.005	44.7

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.36	4.92	5.53	51.6	0.12	0.09	9.82	9.92	0.09	2.49	2.58	1.49	12,137	12,138	0.53	0.49	368	12,666
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.78	4.34	5.97	38.9	0.11	0.09	9.82	9.92	0.09	2.49	2.58	1.49	11,070	11,071	0.55	0.51	324	11,561
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.78	4.33	6.12	42.3	0.11	0.09	9.73	9.83	0.09	2.47	2.56	1.49	11,309	11,310	0.55	0.52	342	11,820
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.87	0.79	1.12	7.71	0.02	0.02	1.78	1.79	0.02	0.45	0.47	0.25	1,872	1,873	0.09	0.09	56.6	1,957
Exceeds (Daily Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137	137	548	137	—	—	82.0	—	—	82.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Threshold	—	137	137	548	137	—	—	82.0	—	—	82.0	—	—	—	—	—	—	—
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Threshold	—	25.0	25.0	100	25.0	—	—	15.0	—	—	15.0	—	—	—	—	—	—	100,000
Unmit.	—	No	No	No	No	—	—	No	—	—	No	—	—	—	—	—	—	No

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.31	4.87	5.52	51.5	0.12	0.09	9.82	9.92	0.09	2.49	2.58	—	12,037	12,037	0.38	0.49	45.1	12,238
Area	0.06	0.05	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.28	0.28	< 0.005	< 0.005	—	0.28
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	99.1	99.1	0.01	< 0.005	—	99.7
Water	—	—	—	—	—	—	—	—	—	—	—	0.12	0.51	0.63	0.01	< 0.005	—	1.02
Waste	—	—	—	—	—	—	—	—	—	—	—	1.37	0.00	1.37	0.14	0.00	—	4.79
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	323	323
Total	5.36	4.92	5.53	51.6	0.12	0.09	9.82	9.92	0.09	2.49	2.58	1.49	12,137	12,138	0.53	0.49	368	12,666
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.73	4.29	5.97	38.9	0.11	0.09	9.82	9.92	0.09	2.49	2.58	—	10,970	10,970	0.39	0.51	1.17	11,133
Area	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	99.1	99.1	0.01	< 0.005	—	99.7
Water	—	—	—	—	—	—	—	—	—	—	—	0.12	0.51	0.63	0.01	< 0.005	—	1.02
Waste	—	—	—	—	—	—	—	—	—	—	—	1.37	0.00	1.37	0.14	0.00	—	4.79
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	323	323
Total	4.78	4.34	5.97	38.9	0.11	0.09	9.82	9.92	0.09	2.49	2.58	1.49	11,070	11,071	0.55	0.51	324	11,561
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.73	4.29	6.12	42.2	0.11	0.09	9.73	9.83	0.09	2.47	2.56	—	11,209	11,209	0.39	0.52	19.5	11,392

Area	0.05	0.05	< 0.005	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.14	0.14	< 0.005	< 0.005	—	0.14
Energy	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	99.1	99.1	0.01	< 0.005	—	99.7
Water	—	—	—	—	—	—	—	—	—	—	—	0.12	0.51	0.63	0.01	< 0.005	—	1.02
Waste	—	—	—	—	—	—	—	—	—	—	—	1.37	0.00	1.37	0.14	0.00	—	4.79
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	323	323
Total	4.78	4.33	6.12	42.3	0.11	0.09	9.73	9.83	0.09	2.47	2.56	1.49	11,309	11,310	0.55	0.52	342	11,820
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.86	0.78	1.12	7.71	0.02	0.02	1.78	1.79	0.02	0.45	0.47	—	1,856	1,856	0.06	0.09	3.22	1,886
Area	0.01	0.01	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Energy	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.4	16.4	< 0.005	< 0.005	—	16.5
Water	—	—	—	—	—	—	—	—	—	—	—	0.02	0.08	0.10	< 0.005	< 0.005	—	0.17
Waste	—	—	—	—	—	—	—	—	—	—	—	0.23	0.00	0.23	0.02	0.00	—	0.79
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.4	53.4
Total	0.87	0.79	1.12	7.71	0.02	0.02	1.78	1.79	0.02	0.45	0.47	0.25	1,872	1,873	0.09	0.09	56.6	1,957

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.75	1.47	13.9	15.1	0.02	0.57	—	0.57	0.52	—	0.52	—	2,494	2,494	0.10	0.02	—	2,502

Demoliti	—	—	—	—	—	—	10.7	10.7	—	1.62	1.62	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.19	0.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	34.2	34.2	< 0.005	< 0.005	—	34.3
Demolition	—	—	—	—	—	—	0.15	0.15	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.66	5.66	< 0.005	< 0.005	—	5.67
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.07	0.70	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	161	161	0.01	0.01	0.02	163
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.18	0.16	9.62	2.05	0.06	0.16	2.16	2.32	0.16	0.55	0.71	—	8,141	8,141	0.01	1.30	0.45	8,530
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.31

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.13	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	111	111	< 0.005	0.02	0.10	117
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.38
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.5	18.5	< 0.005	< 0.005	0.02	19.4

3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.56	1.31	12.1	12.1	0.02	0.56	—	0.56	0.52	—	0.52	—	2,065	2,065	0.08	0.02	—	2,072
Dust From Material Movement	—	—	—	—	—	—	6.27	6.27	—	3.00	3.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.23	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.6	39.6	< 0.005	< 0.005	—	39.7

Dust From Material Movement	—	—	—	—	—	—	0.12	0.12	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	6.56	6.56	< 0.005	< 0.005	—	6.58
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.42	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	96.8	96.8	< 0.005	< 0.005	0.01	98.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.01	0.51	0.11	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	—	429	429	< 0.005	0.07	0.02	450
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.91	1.91	< 0.005	< 0.005	< 0.005	1.94
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.63
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.32

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.43

3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.80	1.51	14.1	14.5	0.02	0.64	—	0.64	0.59	—	0.59	—	2,455	2,455	0.10	0.02	—	2,463
Dust From Material Movement	—	—	—	—	—	—	7.10	7.10	—	3.43	3.43	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	13.5	13.5	< 0.005	< 0.005	—	13.5
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.23	2.23	< 0.005	< 0.005	—	2.23
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.05	0.56	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	0.01	< 0.005	0.01	131
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	0.04	2.50	0.53	0.01	0.04	0.56	0.60	0.04	0.14	0.18	—	2,117	2,117	< 0.005	0.34	0.12	2,218
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.73	0.73	< 0.005	< 0.005	< 0.005	0.74
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.6	11.6	< 0.005	< 0.005	0.01	12.2
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.12
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.92	1.92	< 0.005	< 0.005	< 0.005	2.01

3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.28	1.07	8.95	10.0	0.02	0.33	—	0.33	0.30	—	0.30	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	0.65	< 0.005	0.02	—	0.02	0.02	—	0.02	—	116	116	< 0.005	< 0.005	—	117
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.3	19.3	< 0.005	< 0.005	—	19.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.43	6.43	< 0.005	< 0.005	< 0.005	6.51
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.13	8.13	< 0.005	< 0.005	< 0.005	8.46
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.43	0.43	< 0.005	< 0.005	< 0.005	0.43
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.52	0.52	< 0.005	< 0.005	< 0.005	0.55
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.22	1.01	8.57	9.96	0.02	0.29	—	0.29	0.27	—	0.27	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.04	1.21	< 0.005	0.04	—	0.04	0.03	—	0.03	—	219	219	0.01	< 0.005	—	219
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.02	0.19	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	36.2	36.2	< 0.005	< 0.005	—	36.3
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.30	6.30	< 0.005	< 0.005	< 0.005	6.38
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.97	7.97	< 0.005	< 0.005	< 0.005	8.30
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.79	0.79	< 0.005	< 0.005	< 0.005	0.80
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.97	0.97	< 0.005	< 0.005	< 0.005	1.01
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.56	0.47	4.41	6.48	0.01	0.18	—	0.18	0.17	—	0.17	—	991	991	0.04	0.01	—	995
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	35.3	35.3	< 0.005	< 0.005	—	35.4
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.85	5.85	< 0.005	< 0.005	—	5.87
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.64	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	158	158	< 0.005	0.01	0.02	160
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.80	5.80	< 0.005	< 0.005	0.01	5.88
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.96	0.96	< 0.005	< 0.005	< 0.005	0.97
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134

Architectural	1.07	1.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	1.07	1.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.06	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.42	1.42	< 0.005	< 0.005	< 0.005	1.44
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.26	1.26	< 0.005	< 0.005	< 0.005	1.28
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	5.31	4.87	5.52	51.5	0.12	0.09	9.82	9.92	0.09	2.49	2.58	—	12,037	12,037	0.38	0.49	45.1	12,238
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.31	4.87	5.52	51.5	0.12	0.09	9.82	9.92	0.09	2.49	2.58	—	12,037	12,037	0.38	0.49	45.1	12,238
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	4.73	4.29	5.97	38.9	0.11	0.09	9.82	9.92	0.09	2.49	2.58	—	10,970	10,970	0.39	0.51	1.17	11,133
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	4.73	4.29	5.97	38.9	0.11	0.09	9.82	9.92	0.09	2.49	2.58	—	10,970	10,970	0.39	0.51	1.17	11,133
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	0.86	0.78	1.12	7.71	0.02	0.02	1.78	1.79	0.02	0.45	0.47	—	1,856	1,856	0.06	0.09	3.22	1,886
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.86	0.78	1.12	7.71	0.02	0.02	1.78	1.79	0.02	0.45	0.47	—	1,856	1,856	0.06	0.09	3.22	1,886

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	42.8	42.8	< 0.005	< 0.005	—	43.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	90.7	90.7	0.01	< 0.005	—	91.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	48.0	48.0	< 0.005	< 0.005	—	48.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	42.8	42.8	< 0.005	< 0.005	—	43.0
Total	—	—	—	—	—	—	—	—	—	—	—	—	90.7	90.7	0.01	< 0.005	—	91.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	7.94	7.94	< 0.005	< 0.005	—	7.99
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	7.08	7.08	< 0.005	< 0.005	—	7.12
Total	—	—	—	—	—	—	—	—	—	—	—	—	15.0	15.0	< 0.005	< 0.005	—	15.1

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.42	8.42	< 0.005	< 0.005	—	8.44
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.42	8.42	< 0.005	< 0.005	—	8.44
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.42	8.42	< 0.005	< 0.005	—	8.44
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.42	8.42	< 0.005	< 0.005	—	8.44
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.39	1.39	< 0.005	< 0.005	—	1.40
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.39	1.39	< 0.005	< 0.005	—	1.40

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.28	0.28	< 0.005	< 0.005	—	0.28
Total	0.06	0.05	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.28	0.28	< 0.005	< 0.005	—	0.28
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Product	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	0.01	0.01	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.02	0.02	< 0.005	< 0.005	—	0.02

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.12	0.35	0.47	0.01	< 0.005	—	0.86
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.12	0.51	0.63	0.01	< 0.005	—	1.02
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.12	0.35	0.47	0.01	< 0.005	—	0.86
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.16	0.16	< 0.005	< 0.005	—	0.16
Total	—	—	—	—	—	—	—	—	—	—	—	0.12	0.51	0.63	0.01	< 0.005	—	1.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.02	0.06	0.08	< 0.005	< 0.005	—	0.14
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.03	0.03	< 0.005	< 0.005	—	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	0.02	0.08	0.10	< 0.005	< 0.005	—	0.17

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	1.37	0.00	1.37	0.14	0.00	—	4.79
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.37	0.00	1.37	0.14	0.00	—	4.79

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	1.37	0.00	1.37	0.14	0.00	—	4.79
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.37	0.00	1.37	0.14	0.00	—	4.79
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	0.23	0.00	0.23	0.02	0.00	—	0.79
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.23	0.00	0.23	0.02	0.00	—	0.79

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	323	323

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	323	323
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	323	323
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	323	323
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.4	53.4
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	53.4	53.4

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	11/11/2025	11/17/2025	5.00	5.00	—
Site Preparation	Site Preparation	11/18/2025	11/26/2025	5.00	7.00	—
Grading	Grading	11/27/2025	11/28/2025	5.00	2.00	—
Building Construction	Building Construction	11/29/2025	3/3/2026	5.00	67.0	—
Paving	Paving	3/4/2026	3/20/2026	5.00	13.0	—
Architectural Coating	Architectural Coating	3/21/2026	4/17/2026	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	119	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	6.29	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	31.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.50	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.26	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.10	18.5	LDA,LDT1,LDT2

Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	2,334	778	3,066

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,384	—
Site Preparation	0.00	351	1.88	0.00	—
Grading	0.00	492	4.00	0.00	—
Paving	0.00	0.00	0.00	0.00	1.17

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Convenience Market with Gas Pumps	0.00	0%

Parking Lot	1.17	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	349	0.03	< 0.005
2026	0.00	346	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Convenience Market with Gas Pumps	826	843	826	302,351	13,918	13,919	13,918	5,080,080
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	2,334	778	3,066

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Convenience Market with Gas Pumps	50,223	349	0.0330	0.0040	26,265
Parking Lot	44,767	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Convenience Market with Gas Pumps	62,743	0.00
Parking Lot	0.00	39,628

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Convenience Market with Gas Pumps	2.54	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Convenience Market with Gas Pumps	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market with Gas Pumps	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.9	annual days of extreme heat
Extreme Precipitation	0.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.41	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	93.6
AQ-PM	0.92
AQ-DPM	2.80
Drinking Water	50.3
Lead Risk Housing	35.9
Pesticides	0.00
Toxic Releases	3.78
Traffic	11.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	4.42
Haz Waste Facilities/Generators	39.8
Impaired Water Bodies	0.00
Solid Waste	39.0
Sensitive Population	—
Asthma	61.8

Cardio-vascular	95.6
Low Birth Weights	63.3
Socioeconomic Factor Indicators	—
Education	26.4
Housing	57.4
Linguistic	7.38
Poverty	56.1
Unemployment	59.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	33.01680996
Employed	22.3662261
Median HI	26.52380341
Education	—
Bachelor's or higher	23.67509303
High school enrollment	14.38470422
Preschool enrollment	8.507635057
Transportation	—
Auto Access	60.64416784
Active commuting	29.26985756
Social	—
2-parent households	28.19196715
Voting	69.12613884
Neighborhood	—
Alcohol availability	82.54844091

Park access	10.6249198
Retail density	13.01167715
Supermarket access	27.64018991
Tree canopy	0.384960862
Housing	—
Homeownership	61.36276145
Housing habitability	67.11151033
Low-inc homeowner severe housing cost burden	37.71333248
Low-inc renter severe housing cost burden	53.27858334
Uncrowded housing	88.2586937
Health Outcomes	—
Insured adults	30.60438855
Arthritis	0.0
Asthma ER Admissions	34.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	5.2
Cognitively Disabled	15.9
Physically Disabled	28.8
Heart Attack ER Admissions	5.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	41.8

Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	28.7
English Speaking	74.7
Foreign-born	3.4
Outdoor Workers	28.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.6
Traffic Density	39.1
Traffic Access	23.0
Other Indices	—
Hardship	52.0
Other Decision Support	—
2016 Voting	68.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	28.0
Healthy Places Index Score for Project Location (b)	25.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	default building square feet updated to 1,556 sq. feet to be consistent with Traffic Scoping Plan (November 2024). Landscape estimates based on January 2024 site plan
Operations: Vehicle Data	default trip rate changed to be consistent with Traffic Scoping Plan. 826 daily trips ÷ 6 pumps = 137.6667. default Weekday Primary Trip % changed to 100 percent because Traffic Scoping Plan daily trips already takes into account pass-by trips.
Construction: Construction Phases	default construction schedule was modified to be consistent with project specific construction schedule.
Construction: Dust From Material Movement	default values changed to be consistent with project specific data construction data.
Construction: Architectural Coatings	—

Walmart Fuel Operations-Yucca Valley Original Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Walmart Fuel Operations-Yucca Valley Original
Construction Start Date	1/4/2010
Operational Year	2010
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.60
Precipitation (days)	14.4
Location	58501 29 Palms Hwy, Yucca Valley, CA 92284, USA
County	San Bernardino-Mojave Desert
City	Yucca Valley
Air District	Mojave Desert AQMD
Air Basin	Mojave Desert
TAZ	5142
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Convenience Market with Gas Pumps	6.00	Pump	0.02	1,556	0.00	0.00	—	—
Parking Lot	51.1	1000sqft	1.17	0.00	1,790	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	—	1,819	1,819	0.07	0.03	0.98	1,825
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	—	11,294	11,294	0.34	1.37	0.49	11,713
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	—	616	616	0.02	0.03	0.16	625
Annual (Max)	—	—	—	—	—	—	—
Unmit.	—	102	102	< 0.005	< 0.005	0.03	103
Exceeds (Daily Max)	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—
Unmit.	—	—	—	—	—	—	—
Exceeds (Average Daily)	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—
Unmit.	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—

Unmit.	—	—	—	—	—	—	Yes

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—
2010	—	1,819	1,819	0.07	0.03	0.98	1,825
Daily - Winter (Max)	—	—	—	—	—	—	—
2010	—	11,294	11,294	0.34	1.37	0.49	11,713
Average Daily	—	—	—	—	—	—	—
2010	—	616	616	0.02	0.03	0.16	625
Annual	—	—	—	—	—	—	—
2010	—	102	102	< 0.005	< 0.005	0.03	103

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Unmit.	1.49	14,599	14,601	1.30	0.94	385	15,300
Daily, Winter (Max)	—	—	—	—	—	—	—
Unmit.	1.49	13,180	13,181	1.32	1.01	324	13,838
Average Daily (Max)	—	—	—	—	—	—	—
Unmit.	1.49	13,508	13,510	1.34	1.03	350	14,201
Annual (Max)	—	—	—	—	—	—	—
Unmit.	0.25	2,236	2,237	0.22	0.17	57.9	2,351
Exceeds (Daily Max)	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—
Unmit.	—	—	—	—	—	—	—

Exceeds (Average Daily)	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	—
Unmit.	—	—	—	—	—	—	—
Exceeds (Annual)	—	—	—	—	—	—	—
Threshold	—	—	—	—	—	—	90,718
Unmit.	—	—	—	—	—	—	No

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Mobile	—	14,452	14,452	1.14	0.94	62.4	14,824
Area	—	0.28	0.28	< 0.005	< 0.005	—	0.28
Energy	—	147	147	0.01	< 0.005	—	147
Water	0.12	0.77	0.89	0.01	< 0.005	—	1.29
Waste	1.37	0.00	1.37	0.14	0.00	—	4.79
Refrig.	—	—	—	—	—	323	323
Total	1.49	14,599	14,601	1.30	0.94	385	15,300
Daily, Winter (Max)	—	—	—	—	—	—	—
Mobile	—	13,032	13,032	1.16	1.01	1.62	13,362
Area	—	—	—	—	—	—	—
Energy	—	147	147	0.01	< 0.005	—	147
Water	0.12	0.77	0.89	0.01	< 0.005	—	1.29
Waste	1.37	0.00	1.37	0.14	0.00	—	4.79
Refrig.	—	—	—	—	—	323	323
Total	1.49	13,180	13,181	1.32	1.01	324	13,838
Average Daily	—	—	—	—	—	—	—

Mobile	—	13,361	13,361	1.18	1.03	26.9	13,725
Area	—	0.14	0.14	< 0.005	< 0.005	—	0.14
Energy	—	147	147	0.01	< 0.005	—	147
Water	0.12	0.77	0.89	0.01	< 0.005	—	1.29
Waste	1.37	0.00	1.37	0.14	0.00	—	4.79
Refrig.	—	—	—	—	—	323	323
Total	1.49	13,508	13,510	1.34	1.03	350	14,201
Annual	—	—	—	—	—	—	—
Mobile	—	2,212	2,212	0.20	0.17	4.46	2,272
Area	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Energy	—	24.3	24.3	< 0.005	< 0.005	—	24.4
Water	0.02	0.13	0.15	< 0.005	< 0.005	—	0.21
Waste	0.23	0.00	0.23	0.02	0.00	—	0.79
Refrig.	—	—	—	—	—	53.4	53.4
Total	0.25	2,236	2,237	0.22	0.17	57.9	2,351

3. Construction Emissions Details

3.1. Demolition (2010) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,482	2,482	0.10	0.02	—	2,490
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—

Off-Road Equipment	—	34.0	34.0	< 0.005	< 0.005	—	34.1
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	5.63	5.63	< 0.005	< 0.005	—	5.65
Demolition	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	204	204	0.02	0.02	0.03	210
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	8,608	8,608	0.22	1.34	0.46	9,013
Average Daily	—	—	—	—	—	—	—
Worker	—	2.89	2.89	< 0.005	< 0.005	0.01	2.97
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	118	118	< 0.005	0.02	0.11	124
Annual	—	—	—	—	—	—	—
Worker	—	0.48	0.48	< 0.005	< 0.005	< 0.005	0.49
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	19.5	19.5	< 0.005	< 0.005	0.02	20.5

3.3. Site Preparation (2010) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—

Off-Road Equipment	—	2,051	2,051	0.08	0.02	—	2,058
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	39.3	39.3	< 0.005	< 0.005	—	39.5
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	6.51	6.51	< 0.005	< 0.005	—	6.54
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	123	123	0.01	0.01	0.02	126
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	454	454	0.01	0.07	0.02	475
Average Daily	—	—	—	—	—	—	—
Worker	—	2.43	2.43	< 0.005	< 0.005	< 0.005	2.50
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	8.71	8.71	< 0.005	< 0.005	0.01	9.13
Annual	—	—	—	—	—	—	—
Worker	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.41
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	1.44	1.44	< 0.005	< 0.005	< 0.005	1.51

3.5. Grading (2010) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	2,440	2,440	0.10	0.02	—	2,448
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	13.4	13.4	< 0.005	< 0.005	—	13.4
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	2.21	2.21	< 0.005	< 0.005	—	2.22
Dust From Material Movement	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Worker	—	163	163	0.02	0.01	0.02	168
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	2,239	2,239	0.06	0.35	0.12	2,344
Average Daily	—	—	—	—	—	—	—
Worker	—	0.92	0.92	< 0.005	< 0.005	< 0.005	0.95
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	—	12.3	12.3	< 0.005	< 0.005	0.01	12.9
Annual	—	—	—	—	—	—	—
Worker	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.16
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	2.03	2.03	< 0.005	< 0.005	< 0.005	2.13

3.7. Building Construction (2010) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	1,801	1,801	0.07	0.01	—	1,807
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	331	331	0.01	< 0.005	—	332
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	54.7	54.7	< 0.005	< 0.005	—	54.9
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	9.27	9.27	< 0.005	< 0.005	0.04	9.53
Vendor	—	8.58	8.58	< 0.005	< 0.005	0.02	8.96
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—

Worker	—	8.14	8.14	< 0.005	< 0.005	< 0.005	8.36
Vendor	—	8.56	8.56	< 0.005	< 0.005	< 0.005	8.92
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—
Worker	—	1.54	1.54	< 0.005	< 0.005	< 0.005	1.59
Vendor	—	1.57	1.57	< 0.005	< 0.005	< 0.005	1.64
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.26
Vendor	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2010) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	993	993	0.04	0.01	—	996
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	35.4	35.4	< 0.005	< 0.005	—	35.5
Paving	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	5.85	5.85	< 0.005	< 0.005	—	5.87
Paving	—	—	—	—	—	—	—

Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	233	233	0.02	0.02	0.98	239
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	—	7.51	7.51	< 0.005	< 0.005	0.02	7.72
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	1.24	1.24	< 0.005	< 0.005	< 0.005	1.28
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Architectural Coating (2010) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Off-Road Equipment	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Off-Road Equipment	—	7.32	7.32	< 0.005	< 0.005	—	7.34
Architectural Coatings	—	—	—	—	—	—	—

Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Off-Road Equipment	—	1.21	1.21	< 0.005	< 0.005	—	1.22
Architectural Coatings	—	—	—	—	—	—	—
Onsite truck	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—
Worker	—	1.85	1.85	< 0.005	< 0.005	0.01	1.91
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—
Worker	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—
Worker	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Vendor	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—

Convenience Market with Gas Pumps	—	14,452	14,452	1.14	0.94	62.4	14,824
Parking Lot	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	14,452	14,452	1.14	0.94	62.4	14,824
Daily, Winter (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	13,032	13,032	1.16	1.01	1.62	13,362
Parking Lot	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	13,032	13,032	1.16	1.01	1.62	13,362
Annual	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	2,212	2,212	0.20	0.17	4.46	2,272
Parking Lot	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	—	2,212	2,212	0.20	0.17	4.46	2,272

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	73.2	73.2	< 0.005	< 0.005	—	73.5
Parking Lot	—	65.2	65.2	< 0.005	< 0.005	—	65.5
Total	—	138	138	0.01	< 0.005	—	139
Daily, Winter (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	73.2	73.2	< 0.005	< 0.005	—	73.5
Parking Lot	—	65.2	65.2	< 0.005	< 0.005	—	65.5
Total	—	138	138	0.01	< 0.005	—	139

Annual	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	12.1	12.1	< 0.005	< 0.005	—	12.2
Parking Lot	—	10.8	10.8	< 0.005	< 0.005	—	10.8
Total	—	22.9	22.9	< 0.005	< 0.005	—	23.0

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	8.42	8.42	< 0.005	< 0.005	—	8.44
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	8.42	8.42	< 0.005	< 0.005	—	8.44
Daily, Winter (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	8.42	8.42	< 0.005	< 0.005	—	8.44
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	8.42	8.42	< 0.005	< 0.005	—	8.44
Annual	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	1.39	1.39	< 0.005	< 0.005	—	1.40
Parking Lot	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	1.39	1.39	< 0.005	< 0.005	—	1.40

4.3. Area Emissions by Source

4.3.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	0.28	0.28	< 0.005	< 0.005	—	0.28
Total	—	0.28	0.28	< 0.005	< 0.005	—	0.28
Daily, Winter (Max)	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Consumer Products	—	—	—	—	—	—	—
Architectural Coatings	—	—	—	—	—	—	—
Landscape Equipment	—	0.02	0.02	< 0.005	< 0.005	—	0.02
Total	—	0.02	0.02	< 0.005	< 0.005	—	0.02

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	0.12	0.53	0.65	0.01	< 0.005	—	1.04
Parking Lot	0.00	0.24	0.24	< 0.005	< 0.005	—	0.25
Total	0.12	0.77	0.89	0.01	< 0.005	—	1.29
Daily, Winter (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	0.12	0.53	0.65	0.01	< 0.005	—	1.04
Parking Lot	0.00	0.24	0.24	< 0.005	< 0.005	—	0.25

Total	0.12	0.77	0.89	0.01	< 0.005	—	1.29
Annual	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	0.02	0.09	0.11	< 0.005	< 0.005	—	0.17
Parking Lot	0.00	0.04	0.04	< 0.005	< 0.005	—	0.04
Total	0.02	0.13	0.15	< 0.005	< 0.005	—	0.21

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	1.37	0.00	1.37	0.14	0.00	—	4.79
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.37	0.00	1.37	0.14	0.00	—	4.79
Daily, Winter (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	1.37	0.00	1.37	0.14	0.00	—	4.79
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	1.37	0.00	1.37	0.14	0.00	—	4.79
Annual	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	0.23	0.00	0.23	0.02	0.00	—	0.79
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	0.23	0.00	0.23	0.02	0.00	—	0.79

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	323	323
Total	—	—	—	—	—	323	323
Daily, Winter (Max)	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	323	323
Total	—	—	—	—	—	323	323
Annual	—	—	—	—	—	—	—
Convenience Market with Gas Pumps	—	—	—	—	—	53.4	53.4
Total	—	—	—	—	—	53.4	53.4

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—

Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/4/2010	1/8/2010	5.00	5.00	—
Site Preparation	Site Preparation	1/11/2010	1/19/2010	5.00	7.00	—
Grading	Grading	1/20/2010	1/21/2010	5.00	2.00	—
Building Construction	Building Construction	1/22/2010	4/26/2010	5.00	67.0	—
Paving	Paving	4/27/2010	5/13/2010	5.00	13.0	—
Architectural Coating	Architectural Coating	5/14/2010	6/10/2010	5.00	20.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	3.00	8.00	84.0	0.37
Site Preparation	Graders	Diesel	Average	1.00	8.00	148	0.41
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	7.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2.00	7.00	84.0	0.37
Building Construction	Cranes	Diesel	Average	1.00	6.00	367	0.29
Building Construction	Forklifts	Diesel	Average	1.00	6.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.00	6.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	6.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	6.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	7.00	36.0	0.38
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	12.5	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	119	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	6.29	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	10.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	31.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.50	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.26	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	12.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.10	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	2,334	778	3,066

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	2,384	—
Site Preparation	0.00	351	1.88	0.00	—
Grading	0.00	492	4.00	0.00	—
Paving	0.00	0.00	0.00	0.00	1.17

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Convenience Market with Gas Pumps	0.00	0%
Parking Lot	1.17	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2010	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Convenience Market with Gas Pumps	774	774	774	282,510	13,042	13,042	13,042	4,760,186
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	2,334	778	3,066

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Convenience Market with Gas Pumps	50,223	532	0.0330	0.0040	26,265
Parking Lot	44,767	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Convenience Market with Gas Pumps	62,743	0.00
Parking Lot	0.00	39,628

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Convenience Market with Gas Pumps	2.54	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Convenience Market with Gas Pumps	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Convenience Market with Gas Pumps	Supermarket refrigeration and condensing units	R-404A	3,922	26.5	16.5	16.5	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	32.9	annual days of extreme heat
Extreme Precipitation	0.65	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	0.41	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	4	1	1	4
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2

Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	93.6
AQ-PM	0.92
AQ-DPM	2.80
Drinking Water	50.3
Lead Risk Housing	35.9
Pesticides	0.00
Toxic Releases	3.78
Traffic	11.0
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	4.42
Haz Waste Facilities/Generators	39.8
Impaired Water Bodies	0.00
Solid Waste	39.0

Sensitive Population	—
Asthma	61.8
Cardio-vascular	95.6
Low Birth Weights	63.3
Socioeconomic Factor Indicators	—
Education	26.4
Housing	57.4
Linguistic	7.38
Poverty	56.1
Unemployment	59.4

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	33.01680996
Employed	22.3662261
Median HI	26.52380341
Education	—
Bachelor's or higher	23.67509303
High school enrollment	14.38470422
Preschool enrollment	8.507635057
Transportation	—
Auto Access	60.64416784
Active commuting	29.26985756
Social	—
2-parent households	28.19196715
Voting	69.12613884

Neighborhood	—
Alcohol availability	82.54844091
Park access	10.6249198
Retail density	13.01167715
Supermarket access	27.64018991
Tree canopy	0.384960862
Housing	—
Homeownership	61.36276145
Housing habitability	67.11151033
Low-inc homeowner severe housing cost burden	37.71333248
Low-inc renter severe housing cost burden	53.27858334
Uncrowded housing	88.2586937
Health Outcomes	—
Insured adults	30.60438855
Arthritis	0.0
Asthma ER Admissions	34.7
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	5.2
Cognitively Disabled	15.9
Physically Disabled	28.8
Heart Attack ER Admissions	5.9
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0

Obesity	0.0
Pedestrian Injuries	41.8
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	28.7
English Speaking	74.7
Foreign-born	3.4
Outdoor Workers	28.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	93.6
Traffic Density	39.1
Traffic Access	23.0
Other Indices	—
Hardship	52.0
Other Decision Support	—
2016 Voting	68.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	28.0

Healthy Places Index Score for Project Location (b)	25.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	default building square feet updated to 1,556 sq. feet to be consistent with Traffic Scoping Plan (November 2024). Landscape estimates based on January 2024 site plan
Operations: Vehicle Data	default trip rate changed to be consistent with Original EIR. 774 daily trips ÷ 6 pumps = 129. default Weekday Primary Trip % changed to 100 percent
Construction: Construction Phases	default construction schedule was modified to be consistent with project specific construction schedule.
Construction: Dust From Material Movement	default values changed to be consistent with project specific data construction data.
Construction: Architectural Coatings	—

APPENDIX B, HEALTH RISK ASSESSMENT MEMORANDUM

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MEMORANDUM

To:	Town of Yucca Valley Planning Division
From:	Alex Pohlman, Kimley-Horn and Associates, Inc.
Date:	August 27, 2025
Subject:	Yucca Valley Walmart Fuel Station – Health Risk Assessment

1.0 Purpose

This comparative Health Risk Assessment (HRA) has been undertaken to analyze whether the proposed Yucca Valley Walmart Fuel Station Project (Project) would result in any new or substantially more severe significant health risks associated with Toxic Air Contaminants (TACs) as compared to the conclusions discussed in the certified Yucca Valley Retail Specific Plan (Original Project) Environmental Impact Report (Final EIR) that was certified on June 25, 2008. This technical memorandum evaluates the proposed updates associated with the Project, (described below) pursuant to Public Resources Code, Section 21166 or State CEQA Guidelines Section 15162. This HRA was prepared in accordance with the California Office of Environmental Health Hazard Assessment (OEHHA) *Air Toxics Program Guidance Manual for the Preparation of Health Risk Assessments* (February 2015).

2.0 Project Description

Original Project

The Final EIR for the Original Project analyzed the development of a commercial retail center on approximately 25.51 acres located on the southeast corner of Twentynine Palms Highway (SR-62) and Avalon Avenue. The EIR analysis for the Original Project included a 229,000-square foot Walmart Supercenter, a fuel station, a 4,000-square foot fast-food restaurant with drive-through, and a detention basin. However, the Specific Plan, approved on August 14, 2008, did not include the fuel station as a permitted use and the area designated in the EIR for the fuel station and a 4,000-square foot fast-food restaurant with drive-through was ultimately developed with two smaller fast-food restaurants instead.

Proposed Project

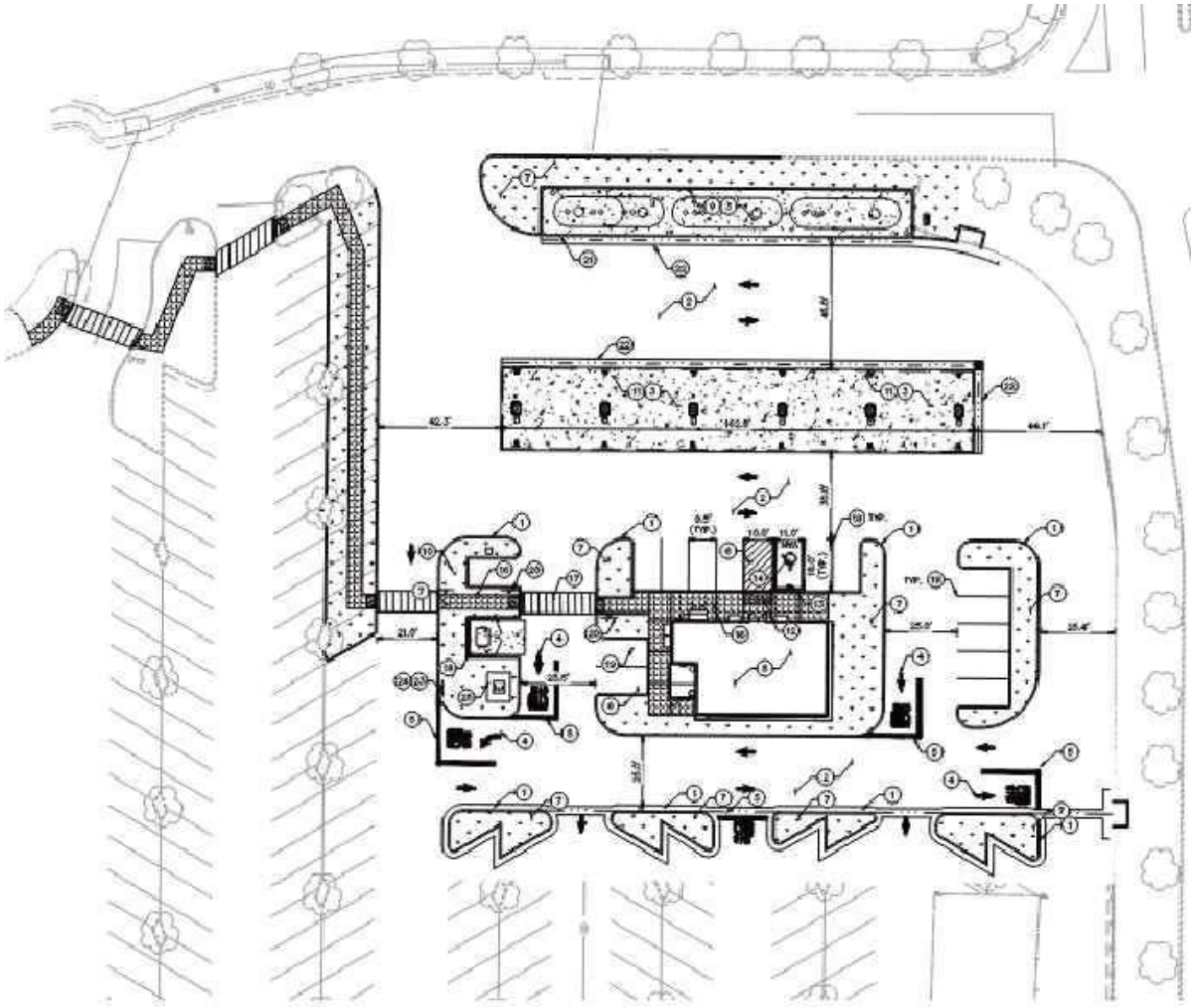
The proposed Project involves the development of a fuel station similar to the one previously analyzed in the Final EIR, although in a different location. The fuel station would be located in the northeastern portion of the existing parking lot, south of the detention basin and SR-62, see **Exhibit 1: Local Vicinity Map** and **Exhibit 2: Conceptual Site Plan**.

Source: ArcGIS Pro

EXHIBIT 1: Local Vicinity Map
Yucca Valley Fuel Station Project

Not to Scale

Kimley»Horn
Expect More. Experience Better.



WALMART FUEL STATION - STORE #1915
58501 TWENTYNINE PALMS HIGHWAY, YUCCA VALLEY, CA 92284

Source: Kimley-Horn Traffic Scoping Agreement

EXHIBIT 2: Conceptual Site Plan
Yucca Valley Walmart Fuel Station Project

Not to Scale

Kimley»Horn
Expect More. Experience Better.

3.0 Regulatory Setting

Federal

Federal Clean Air Act

The Federal Clean Air Act (FCAA) was amended in 1990 to address the numerous air pollutants that are known to cause or may reasonably be anticipated to cause adverse effects to human health or adverse environmental effects. 188 specific pollutants and chemical groups were initially identified as hazardous air pollutants (HAPs), and the list has been modified over time. The FCAA Amendments included new regulatory programs to control acid deposition and for the issuance of stationary source operating permits.

In 2001, the United States Environmental Protection Agency (U.S. EPA) issued its first Mobile Source Air Toxics Rule, which identified 21 mobile source air toxic (MSAT) compounds as being HAPs that required regulation. A subset of six of these MSAT compounds were identified as having the greatest influence on health and included benzene, 1,3-butadiene, formaldehyde, acrolein, acetaldehyde, and diesel particulate matter (DPM). More recently, the U.S. EPA issued a second MSAT Rule in February 2007, which generally supported the findings in the first rule and provided additional recommendations of compounds having the greatest impact on health. The rule also identified several engine emission certification standards that must be implemented. Unlike the criteria pollutants, toxics do not have National Ambient Air Quality Standards (NAAQS) making evaluation of their impacts more subjective.

National Emissions Standards for Hazardous Air Pollutants (NESHAPs) were incorporated into a greatly expanded program for controlling toxic air pollutants. The provisions for NAAQS attainment and maintenance were substantially modified and expanded. Other revisions included provisions regarding stratospheric ozone protection, increased enforcement authority, and expanded research programs.

FCAA Amendments Section 112 governs the federal control program for HAPs. NESHAPs are issued to limit the release of specified HAPs from specific industrial sectors. These standards are technology-based, meaning that they represent the best available control technology an industrial sector could afford. The level of emissions controls required by NESHAPs are not based on health risk considerations because allowable releases and resulting concentrations have not been determined to be safe for the general public. The FCAA does not establish air quality standards for HAPs that define legally acceptable concentrations of these pollutants in ambient air.

Federal Emissions Standards for On-Road Trucks

To reduce emissions from on-road, heavy-duty diesel trucks, the U.S. EPA established a series of increasingly strict emission standards for new engines, starting in 1988. The U.S. EPA promulgated

the final and cleanest standards with the 2007 Heavy-Duty Highway Rule.[1] The particulate matter (PM) emission standard of 0.01 gram per horsepower-hour (g/hp-hr) is required for new vehicles beginning with model year 2007. Also, the oxides of nitrogen (NO_X) and nonmethane hydrocarbon (NMHC) standards of 0.20 g/hp-hr and 0.14 g/hp-hr, respectively, were phased in together between 2007 and 2010 on a percent of sales basis: 50 percent from 2007 to 2009 and 100 percent in 2010. In December 2022, the U.S. EPA final rule set new, more stringent standards to reduce NO_X pollution from heavy-duty vehicles and engines starting in model year 2027. The rule will reduce NO_X emissions from heavy-duty trucks by almost 50 percent by 2045, producing significant health-related benefits.[2]

Emission Standards for Off-Road Diesel Engines

To reduce emissions from off-road diesel equipment, the U.S. EPA established a series of cleaner emission standards for new off-road diesel engines. Tier 1 standards were phased in from 1996 to 2000 (year of manufacture), depending on the engine horsepower category. Tier 2 standards were phased in from 2001 to 2006. Tier 3 standards were phased in from 2006 to 2008. Tier 4 standards, which generally require add-on emission control equipment to attain them, were phased in from 2008 to 2015. The Tier 4 standards require that emissions of PM and NO_X be further reduced by about 90 percent from Tier 3 standards.

State of California

California Air Resources Board

CARB's statewide comprehensive air toxics program was established in 1983 with AB 1807 the Toxic Air Contaminant Identification and Control Act (Tanner Air Toxics Act of 1983). AB 1807 created California's program to reduce exposure to air toxics and sets forth a formal procedure for CARB to designate substances as TACs. Once a TAC is identified, CARB adopts an airborne toxics control measure (ATCM) for sources that emit designated TACs. If there is a safe threshold for a substance at which there is no toxic effect, the control measure must reduce exposure to below that threshold. If there is no safe threshold, the measure must incorporate toxics best available control technology (T-BACT) to minimize emissions.

CARB also administers the state's mobile source emissions control program and oversees air quality programs established by state statute, such as AB 2588. Under AB 2588, TAC emissions from individual facilities are quantified and prioritized by the air quality management district or air pollution control district. High priority facilities are required to perform a health risk assessment and, if specific thresholds are exceeded, required to communicate the results to the public in the form of

[1] California Air Resources Board, *Overview: Diesel Exhaust & Health*, https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health, accessed November 2024.

[2] United States Environmental Protection Agency (U.S. EPA), Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements, Final Rule. 40 Code of Federal Regulations, s 2, 59, 60, 80, 85, 86, 600, 1027, 1030, 1031, 1033, 1036, 1037, 1039, 1042, 1043, 1045, 1048, 1051, 1054, 1060, 1065, 1066, 1068, and 1090. January 24, 2023.

notices and public meetings. In September 1992, the AB 2588 was amended by Senate Bill (SB) 1731 which required facilities that pose a significant health risk to the community to reduce their risk through a risk management plan.

Emission Standards for Off-Road Diesel Engines

To reduce emissions from off-road diesel equipment, the U.S. EPA established a series of cleaner emission standards for new off-road diesel engines. CARB is currently developing potential amendments to the off-road diesel engine standards, in a Tier 5 rulemaking. The Tier 5 rulemaking aims to reduce NO_X and PM emissions from new, off-road compression-ignition (CI) engines, by an additional 50 percent to 90 percent, compared to what is allowed by today's Tier 4 final emission standards.

Diesel Risk Reduction Plan

The identification of DPM as a TAC in 1998 led CARB to adopt the Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles (DRRP) in October 2000. The DRRP's goals include an 85 percent reduction in DPM by 2020 from the 2000 baseline.[3] CARB estimates that emissions of DPM in 2035 will be less than half those in 2010, further reducing statewide cancer risk and non-cancer health effects.[4] The DRRP includes regulations for cleaner new diesel engines, cleaner in-use diesel engines (retrofits), and cleaner diesel fuel.

Truck and Bus Regulation Reducing Emissions from Existing Diesel Vehicles

On December 12, 2008, CARB approved the Truck and Bus Regulation to significantly reduce PM and NO_X emissions from existing diesel vehicles operating in California. The regulation requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Heavier trucks were required to be retrofitted with PM filters beginning January 1, 2012, and older trucks were required to be replaced starting January 1, 2015. Effective January 1, 2023, nearly all trucks and buses are required to have 2010 model year engines or equivalent.

The regulation applies to most privately and federally-owned diesel fueled trucks and buses and to privately and publicly owned school buses with a gross vehicle weight rating (GVWR) greater than 14,000 pounds. Small fleets with three or fewer diesel trucks can delay compliance for heavier trucks and there are several extensions for low-mileage construction trucks, early PM filter retrofits, adding cleaner vehicles, and other situations. Privately and publicly owned school buses have different requirements.

[3] California Air Resources Board, *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*, October 2000.

[4] California Air Resources Board, *Overview: Diesel Exhaust & Health*, https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health, accessed November 2024.

Heavy-Duty Vehicle Idling Emission Reduction Program

The purpose of the CARB ATCM to Limit Diesel-Fueled Commercial Motor Vehicle Idling is to reduce public exposure to DPM and criteria pollutants by limiting the idling of diesel-fueled commercial vehicles including transportation refrigeration units (TRUs). The driver of any vehicle subject to this ATCM is prohibited from idling the vehicle's primary diesel engine for greater than five minutes at any location and is prohibited from idling a diesel-fueled auxiliary power system (APS) for more than five minutes to power a heater, air conditioner, or any ancillary equipment on the vehicle if it has a sleeper berth and the truck is located within 100 feet of a restricted area (homes and schools). On February 24, 2022, CARB approved amendments to the TRU ATCM (2022 Amendments) to achieve additional emission and health risk reductions from diesel-powered TRUs and increase the use of zero emission technology in the off-road sector. The 2022 Amendments will help meet the State's multiple risk reduction, air quality, and climate goals, as well as the directive of Executive Order N-29-20, which set a goal for 100 percent zero-emission off-road vehicles and equipment in the State by 2035.

CARB Final Regulation Order, Requirements to Reduce Idling Emissions from New and In-Use Trucks, beginning in 2008, requires that new 2008 and subsequent model-year heavy-duty diesel engines be equipped with an engine shutdown system that automatically shuts down the engine after 300 seconds of continuous idling operation once the vehicle is stopped, the transmission is set to "neutral" or "park", and the parking brake is engaged.

Section 2485 and Section 2449 of Title 13 of the California Code of Regulations limits diesel-fueled motor vehicle and off-road idling to no more than five minutes. Section 2485 limits idling for diesel-fueled commercial motor vehicles with gross vehicle weight ratings of greater than 10,000 pounds that are or must be licensed to operate on publicly maintained highways and streets within California. Section 2449 limits idling for off-road diesel-fueled fleets.

California Energy Commission – Title 24 Building Energy Efficiency Standards

The Energy Efficiency Standards for Residential and Nonresidential Buildings, as specified in California Code of Regulations (CCR) Title 24 Part 6, were established in 1978 in response to a legislative mandate to reduce California's energy consumption. The standards are updated periodically to allow consideration and possible incorporation of new energy efficiency technologies and methods. The 2022 Energy Standards include requirements for mandatory mechanical ventilation intended to improve indoor air quality in homes, and requirements for Minimum Efficiency Reporting Value (MERV) 13 air filtration on space conditioning systems, and ventilation systems that provide outside air to a dwelling's occupiable space. The Residential Compliance Manual for the 2022 Building Energy Efficiency Standards notes that air filter efficiencies of at least MERV 13 protect occupants from exposure to the smaller airborne particles (i.e., $PM_{2.5}$) that are known to adversely affect respiratory health. CCR Title 24 Part 6 requires a particle size efficiency rating equal to or greater than 50 percent in the 0.30 to 1.00 µm range and 85 percent in the 1.0 to 3.0 µm range.

CalEnviroScreen

OEHHA developed CalEnviroScreen 4.0, which is a mapping tool that helps identify California communities that are most affected by many sources of pollution, and where people are often especially vulnerable to pollution's effects. CalEnviroScreen uses environmental, health, and socioeconomic information to produce scores for every census tract in the State. The scores are mapped so that different communities can be compared. An area with a high score is one that experiences a much higher pollution burden than areas with low scores. According to CalEnviroScreen, the Project Site is located within Census Tract 6071010412, which is within the 28nd overall percentile while the nearest sensitive receptors are located in Census Tract 6071010411 to the north and is within the 46th overall percentile.[5] It should be noted that the CalEnviroScreen scores are relative to other census tracts and are not an expression of health risk, and do not provide quantitative information on increases in cumulative impacts for specific sites or projects. Further, as a comparative screening tool, the results do not provide a basis for determining when differences between scores are significant in relation to public health or the environment.

CARB Advanced Clean Truck Regulation

CARB adopted the Advanced Clean Truck Regulation in June 2020 requiring truck manufacturers to transition from diesel trucks and vans to electric zero-emission trucks beginning in 2024. By 2045, every new truck sold in California is required to be zero-emission. This rule directly addresses disproportionate risks and health and pollution burdens and puts California on the path for an all zero-emission short-haul drayage fleet in ports and railyards by 2035, and zero-emission "last-mile" delivery trucks and vans by 2040. The Advanced Clean Truck Regulation accelerates the transition of zero-emission medium-and heavy-duty vehicles from Class 2b to Class 8. The regulation has two components including a manufacturer sales requirement, and a reporting requirement:

- Zero-Emission Truck Sales: Manufacturers who certify Class 2b through 8 chassis or complete vehicles with combustion engines are required to sell zero-emission trucks as an increasing percentage of their annual California sales from 2024 to 2035. By 2035, zero-emission truck/chassis sales need to be 55 percent of Class 2b – 3 truck sales, 75 percent of Class 4 – 8 straight truck sales, and 40 percent of truck tractor sales.
- Company and Fleet Reporting: Large employers including retailers, manufacturers, brokers and others are required to report information about shipments and shuttle services. Fleet owners, with 50 or more trucks, are required to report about their existing fleet operations. This information helps to identify future strategies to ensure that fleets purchase available zero-emission trucks and place them in service where suitable to meet their needs.

[5] OEHHA, CalEnviroScreen 4.0 Results (2022 Update), https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40, accessed December 2024.

Executive Order N-79-20

Signed in September 2020, Executive Order N-79-20 establishes as a goal that where feasible, all new passenger cars and trucks, as well as all drayage/cargo trucks and off-road vehicles and equipment, sold in California, will be zero-emission by 2035. The executive order sets a similar goal requiring that all medium and heavy-duty vehicles will be zero-emission by 2045 where feasible. It also directs CARB to develop and propose rulemaking for passenger vehicles and trucks, medium- and heavy-duty fleets where feasible, drayage trucks, and off-road vehicles and equipment "requiring increasing volumes" of new zero emission vehicles (ZEVs) "towards the target of 100 percent." The executive order directs the California Environmental Protection Agency, the California Geologic Energy Management Division (CalGEM), and the California Natural Resources Agency to transition and repurpose oil production facilities with a goal toward meeting carbon neutrality by 2045. Executive Order N-79-20 builds upon the CARB Advanced Clean Trucks regulation, which was adopted by CARB in July 2020.

CARB Advanced Clean Fleets Regulation

CARB approved Advanced Clean Fleets Regulation (ACF) on April 28, 2023, requiring fleet owners to begin transitioning toward ZEVs starting in 2024. Due to the impact that truck traffic has on residents living near heavily trafficked corridors, drayage trucks will need to be zero-emissions by 2035. All other fleet owners have the option to transition a percentage of their vehicles to meet expected zero-emission milestones, which gives owners the flexibility to continue operating combustion-powered vehicles as needed during the move toward cleaner technology.

Gasoline Dispensing Facility Vapor Recovery Regulations

Since 2001, CARB has adopted a number of significant enhancements to gasoline dispensing facilities' (GDFs') vapor recovery systems. These efforts are necessary to ensure the continued effective operation of the vapor recovery systems during the transfer and dispensing of gasoline at these facilities.

Vapor recovery systems collect gasoline vapors that would otherwise escape into the atmosphere during fuel delivery to the underground storage tanks (Phase I) or fuel storage and vehicle fueling (Phase II). The Enhanced Vapor Recovery (EVR) regulations became state law on April 1, 2001. These regulations provide more stringent requirements for vapor recovery systems in order to reduce gasoline vapor emissions.[6]

CARB Air Quality and Land Use Handbook – Gasoline Dispensing Facilities

The CARB *Air Quality and Land Use Handbook* (2005) recommends avoiding siting new sensitive land uses within 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater).[7] A 50-foot separation is recommended for typical gas dispensing facilities. CARB

[6] The project would be required to comply with the State's Gasoline Dispensing Facility Vapor Recovery Regulations.
[7] The proposed Project would have a maximum anticipated throughput of approximately 5.0 million gallons per year.

notes that a typical gasoline dispensing facility in California dispenses under 3.6 million gallons of gasoline per year. The cancer risk for a typical facility is likely to be less than 10 in a million at the fence line under urban air dispersion conditions.

Gasoline Service Station Industrywide Risk Assessment Technical Guidance

CARB and the California Air Pollution Control Officers Association (CAPCOA) developed the 2021 Gasoline Service Station Industrywide Risk Assessment Technical Guidance Manual (Technical Guidance) based on health analyses conducted to evaluate the health impacts of emissions from gasoline service stations operating throughout the state. The Technical Guidance provides an update to the CAPCOA Air Toxics "Hot Spots" Program Gasoline Service Station Industrywide Risk Assessment Guidelines (1997). The Technical Guidance also provides recommended procedures for preparing gas station emission inventories and HRAs to meet the requirements of individual facilities subject to AB 2588.

Gasoline Service Station Industrywide Risk Assessment Supplemental Policy Guidance Document

CARB developed the 2022 *Gasoline Service Station Industrywide Risk Assessment Supplemental Policy Guidance Document* (Supplemental Policy Guidance or Guidance) to provide recommendations regarding public policy for gas stations and discuss potential community-scale health impacts caused by gas station emissions. In addition to discussing community-scale health impacts, the Supplemental Policy Guidance provides considerations and recommendations for the siting and permitting of new and modified gas stations. The Guidance also outlines the significant challenges in addressing cumulative impacts from multiple sources of gas stations and other sources.

Regional

Mojave Desert Air Quality Management District

The Mojave Desert Air Quality Management District (MDAQMD) has jurisdiction over the project site. The MDAQMD is the air pollution control agency for San Bernardino County's High Desert and Riverside County's Palo Verde Valley. It includes nearly 20,000 square miles and a population of more than 500,000; it is the second largest of California's 35 air districts by area. The MDAQMD has primary responsibility for controlling emissions from stationary sources of air pollution within its jurisdiction. This is accomplished in part by administering air quality programs required by federal and state mandates and enforcing rules and regulations based on air pollution law.

The MDAQMD is responsible for monitoring air quality and for planning, implementing, and enforcing programs designed to attain and maintain NAAQS and California Ambient Air Quality Standards (CAAQS) in their jurisdiction.

The MDAQMD has adopted rules to limit air emissions. Many of these rules were put in place as required measures specified in the various SIPs and air quality attainment plans.

4.0 Significance Criteria and Methodology

Risk Analysis Thresholds

Project health risks are determined by examining the types and levels of air toxics generated and the associated impacts on factors that affect air quality. The MDAQMD recommends that the following air pollution thresholds be used in determining whether the impacts from the Project are significant. If the Project has the potential to exceed the air pollution thresholds, the Project should be considered significant. The thresholds for air toxic emissions are as follows.

- **Excess (Incremental) Cancer Risk:** Emit contaminants that result in a maximum individual cancer risk (MICR) that equals or exceeds 10 in one million.
- **Non-Cancer Risk:** Emit contaminants that equal or exceed the maximum hazard index of 1.0 (project increment).

Cancer risk is expressed in terms of expected incremental incidence per million population. As noted above, the MDAQMD has established an incremental increase rate of less than 10 in one million as the maximum acceptable incremental cancer risk due to TAC exposure. This threshold is an upper-bound incremental probability to determine whether or not a given project has a potentially significant development-specific and cumulative impact and to ensure an individual new source does not contribute a cumulatively significant impact. The 10 in one million standard is a health-protective significance threshold. A risk level of 10 in one million implies a likelihood that up to 10 persons, out of one million equally exposed people would contract cancer if exposed continuously (24 hours per day) to the levels of toxic air contaminants over a specified duration of time. This risk would be an excess cancer risk that is in addition to any cancer risk borne by a person not exposed to these air toxics.

The MDAQMD has also established non-carcinogenic risk parameters for use in HRAs. Noncarcinogenic risks are quantified by calculating a "hazard index," expressed as the ratio between the ambient pollutant concentration and its toxicity or Reference Exposure Level (REL). An REL is a concentration at or below which health effects are not likely to occur. A hazard index of less than 1.0 means that adverse health effects are not expected.

Methodology

This HRA evaluates potential health risks associated with potential Project TAC emissions. Construction equipment and associated heavy-duty truck traffic generate DPM, which is a known TAC. DPM exhaust emissions from construction equipment operating at the site poses a health risk to nearby sensitive receptors. Operational activities would also emit TACs from fueling and the use of heavy-duty diesel trucks.

Construction Sources

Construction would generate DPM emissions from the use of off-road diesel equipment required for demolition, grading and excavation, paving, and other construction activities. For construction

activity, DPM is the primary toxic air contaminant of concern because it is the most potent TAC emitted from construction and includes hundreds of chemicals. Although DPM is a subset of PM_{10} exhaust, the analysis conservatively assumes all PM_{10} exhaust emissions are DPM. On-road diesel-powered haul trucks traveling to and from the construction area to deliver materials and equipment were included in the analysis, although they are typically less of a concern because they would not stay on the site for long durations. Diesel exhaust from construction equipment operating at the site potentially poses a health risk to nearby sensitive receptors. The nearest sensitive receptors are the residences located approximately 410 feet to the north, on the opposite side of SR-62.

Health-related risks associated with diesel-exhaust emissions are primarily linked to long-term exposure and the associated risk of contracting cancer. The use of diesel-powered construction equipment would be episodic and would occur throughout the project site. Construction is subject to and would comply with California regulations (e.g., California Code of Regulations, Title 13, §§2485 and 2449), which reduce DPM and criteria pollutant emissions from in-use off-road diesel-fueled vehicles and limit the idling of heavy-duty construction equipment to no more than five minutes. Idling limits would further reduce nearby sensitive receptors' exposure to temporary and variable DPM emissions. Furthermore, even during the most intense period of construction, emissions of DPM would be generated from different locations on the project site rather than in a single location because different types of construction activities (e.g., site preparation and building construction) would not occur at the same place at the same time. Construction emission rates for PM_{10} (DPM) were calculated from the CalEEMod construction emissions modeling conducted for the project Air Quality and Greenhouse Gas Analysis. The duration of construction activities are anticipated to occur over an approximately 5-month period and the analysis assumes the earliest feasible start date (i.e., late 2025).[8]

Operational Sources

CARB estimates that about 70 percent of the cancer risk that the average Californian faces from breathing toxic air pollutants stems from DPM.[9] In addition, this HRA also evaluates potential health risks associated with the emission of benzene.

Of the toxic compounds emitted from the gasoline stations, benzene, ethylbenzene, and naphthalene have cancer toxicity values. However, benzene is the TAC which drives the risk, accounting for 87 percent of cancer risk from gasoline vapors and constitutes more than three to four times the weight of gasoline than ethylbenzene and naphthalene, respectively. Therefore,

[8] The earliest feasible construction start date has been modeled. Emissions in future years (i.e., due to a later construction start date or operational opening year) would be lower due to phased-in emissions standards, inspection and maintenance requirements, and fleet turnover). Specifically, project construction was modeled to start in 2025. If construction commences at a later date, construction impacts would be less than those analyzed due to the use of more energy-efficient and cleaner burning construction vehicle fleet mix, pursuant to state regulations that require vehicle fleet operators to phase-in less polluting heavy-duty equipment. For emissions modeling purposes, conservatively analyzing the emissions using the earliest feasible construction start date (i.e., 2025), provides for a worst-case analysis and full disclosure of potential air quality impacts, as required by CEQA.

[9] California Air Resources Board, *Overview: Diesel Exhaust & Health*, https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health, accessed January 2025.

ethylbenzene and naphthalene have not been modeled and are instead considered significant in the case that benzene emissions are significant. Additionally, there are substances emitted from gasoline stations, such as toluene and xylene which possess acute adverse health effects (though not cancer risk). However, it is not until the benzene concentrations are more than two orders of magnitude above the 10 per million cancer risk threshold that the emissions of toluene and xylene begin to cause adverse health effects, according to the CAPCOA *Gasoline Service Station Industrywide Risk Assessment Guidelines*. Therefore, toluene and xylene emissions have not been modeled and are instead considered significant in the case that benzene concentrations are identified at two orders of magnitude above the 10 per million cancer risk threshold.

Fueling Sources

Benzene emissions would occur from the proposed on-site fuel storage tanks and fuel dispensers. The specific processes associated with fuel storage tanks and fuel dispensers that emit air toxics include loading, breathing, refueling, and spillage, as described below:

- Loading – Emissions occur when a fuel tanker truck unloads gasoline into the storage tanks. The storage tank vapors, displaced during loading, are emitted through its vent pipe. A required pressure/vacuum valve installed on the tank vent pipe significantly reduces these emissions.
- Breathing – Emissions occur through the storage tank vent pipe as a result of temperature and pressure changes in the tank vapor space.
- Refueling – Emissions occur during motor vehicle refueling when gasoline vapors escape through the vehicle/nozzle interface.
- Spillage – Emissions occur from evaporating gasoline that spills during vehicle refueling.

Fuel dispensing facility emissions were computed based on the maximum anticipated throughput of fuel (i.e., approximately 5.0 million gallons per year). Emissions of benzene, which is a TAC, were computed using CARB emission factors for fuel dispensing facilities and assuming that benzene makes up 0.46 percent of gasoline vapor.[10] Total benzene emissions were calculated at 0.0024 pounds per hour; refer to **Appendix A** for the details of these calculations. The emission factors conservatively do not reflect control technologies required by any vapor recovery regulations later than 2013 (such as Certification Procedure for Vapor Recovery Systems for Enhanced Conventional [ECO] Nozzles and Low Permeation Conventional Hoses for Use at Gasoline Dispensing Facilities [CP-207], Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities [CP-201]). These emissions factors are currently being updated by CARB.

Mobile Sources

Due to the increased vehicle traffic from the Project, the resulting emissions could also result in pollutant concentrations at existing sensitive receptors. Two daily heavy-duty delivery truck trips

[10] *CAPCOA, Gasoline Service Station Industrywide Risk Assessment Technical Guidance,* January 2022.

were assumed to access the site and serve the fuel station. Emission rates in grams per hour for vehicle idling for PM_{10} (DPM) was calculated using trip data and CARB 2021 EMission FACtor model version 1.0.2 (EMFAC)[11] data for the Mojave Desert portion of San Bernardino County; refer to **Appendix A**.

The emissions rates were calculated using 2026 emissions factors since project construction would be completed in mid-2026. Truck emissions were conservatively based on the first possible year of operations for a fleet mix of various aged vehicles, as opposed to average emissions over a 30-year window. This approach is conservative as it assumes no cleaner technology in future years. Trucks were assumed to travel at a speed of 55 miles per hour (mph) on SR-62 and 15 mph in the Walmart parking area and on-site at the fueling station.

Dispersion Modeling

The on-site air dispersion modeling for the HRA was performed using the American Meteorological Society (AMS)/U.S. EPA Regulatory Model (AERMOD). AERMOD is a steady-state, multiple-source, Gaussian dispersion model designed for use with emission sources situated in terrain where ground elevations can exceed the stack heights of the emission sources. AERMOD estimates hourly concentrations for each source/receptor pair and calculates concentrations for user-specified averaging times, including an average concentration for the complete simulation period. AERMOD includes atmospheric dispersion options for both urban and rural environments and can address flat, gently rolling, and complex terrain situations. The parameters used in AERMOD are detailed below.

- Meteorological Data. AERMOD requires hourly meteorological data consisting of wind vector, wind speed, temperature, atmospheric stability class, and mixing height. The latest 5-year meteorological data set from the Palm Springs International Airport Monitoring Station (KPSP), which is outside the MDAQMD area but is the closest station to the Project Site, was obtained from the South Coast Air Quality Management District (SCAQMD).[12] Surface and upper air meteorological data from this monitoring station was selected as being the most representative for meteorology based on proximity to the Project Site as well as terrain, surrounding land use and surface characteristics.
- Project Sources. The emissions sources were modeled in AERMOD. The following parameters were used for each source (refer to **Appendix A** for a depiction of the source and receptor locations):
    - Construction emissions sources were modeled as line volume sources (comprised of smaller adjacent volume sources) for on-site construction and off-site haul truck operations. Off-road construction equipment operating on-site were assigned a

[11] California Air Resources Board, *EMFAC 2021 Web Database,* https://arb.ca.gov/emfac/ accessed December 2024.
[12] South Coast Air Quality Management District, *Health Risk Assessment Tool and AEROD-Ready Meteorological Data Files*, https://www.aqmd.gov/assets/aermet/AERMET_files_And_HRA_Tool.html, accessed December 2024.

release height of 12.5 feet (3.82 meters) and a plume height of 25.1 feet (7.6 meters) based on a vehicle height of 14.7 feet (4.5 meters).[13] On-road construction equipment (hauling materials to and from the Project site) were assigned a release height of 10.3 feet (3.15 meters) and a plume height of 20.6 feet (6.29 meters) based on a vehicle height of 12.1 feet (3.7 meters).

- Operational mobile emission sources were modeled as line volume sources truck operations. Heavy duty vehicle emissions were assigned a release height of 10.3 feet (3.15 meters) and a plume height of 20.6 feet (6.29 meters).
- Operational fueling sources were modeled as a combination of volume and point sources.[14] Loading and breathing sources were modeled as point sources with a release height of 3.66 meters. Building downwash[15] was applied for the loading and breathing sources. Fueling and hose permeation were modeled as volume sources with a release height of 1.5 meters. Spillage was modeled as a volume source with a release height of 1 meter. Fueling sources were assumed to operate 24 hours a day.

- Receptor Grid. To identify the maximum impacted receptors, discrete placed on the nearest sensitive receptors and a uniform 20-meter Cartesian grid was placed over other locations within 1,000 feet of proposed Project's perimeter.
- Terrain Characteristics. The United States Geological Survey (USGS) National Elevation Dataset (NED) terrain data was imported into AERMOD. AERMOD regulatory defaults, the "Urban" modeling option for the County, and "Elevated" terrain were used for this analysis.
- Averaging Times. AERMOD was run to obtain the peak 1-hour and annual average (period) concentration in micrograms per cubic meter ($\mu g/m^3$) of PM_{10} and TOG at receptors (i.e., residents and businesses).

AERMOD was used to estimate (a) annual average concentrations to calculate the Maximum Individual Cancer Risk (MICR), the maximum chronic HI, and the zones of impact, and (b) peak hourly concentrations to calculate the health impact from substances with acute non-cancer health effects. Note that the concentration estimate developed using this methodology is conservative and is not a specific prediction of the actual concentrations that would occur at the Project Site at any one point in time, which would likely be lower. Actual pollutant concentrations are dependent on many variables, particularly the number and type of vehicles operating at specific distances during time periods of adverse meteorology.

Risk and Hazard Assessment

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[13] The Haul Road Volume Source Calculator in AERMOD was used to determine the release height and plume height based on the average height of vehicles and equipment modeled.

[14] California Air Resources Board, *Gasoline Service Station Industrywide Risk Assessment Technical Guidance*, February 18, 2022

[15] Building downwash is applied to point sources in AERMOD to account for the potential for pollutants to be trapped in a recirculating pattern near buildings

Cancer Risk

Based on the OEHHA methodology, residential inhalation cancer risk from annual average DPM and benzene concentrations are calculated by multiplying the daily inhalation dose, cancer potency factor, age sensitivity factor (ASF), frequency of time spent at home, and exposure duration divided by averaging time, yielding the excess cancer risk. These factors are discussed in more detail below. Exposure through inhalation (Dose-air) is a function of breathing rate, exposure frequency, and concentration of substance in the air. To estimate cancer risk, the dose was estimated by applying the following formula to each ground-level concentration:

$$\text{Dose-air} = C_{air} * (BR/BW) * A * EF * 10^{-6}$$

Dose-air = dose through inhalation (mg/kg/day)
C_{air} = air concentration (µg/m^3) from air dispersion model
(BR/BW) = daily breathing rate normalized to body weight (L/kg bodyweight-day)
A = inhalation absorption factor (unitless)
EF = exposure frequency (approximately 350 days per year for residential)
10^{-6} = conversion factor (micrograms to milligrams, liters to cubic meters)

OEHHA developed ASFs to consider the increased sensitivity to carcinogens during early-life exposure. In the absence of chemical-specific data, OEHHA recommends default ASFs presented in **Table 1: Exposure Assumptions**. Fraction of time at home (FAH) during the day is used to adjust exposure duration and cancer risk from a specific facility's emissions, based on the assumption that exposure to the facility's emissions are not occurring away from home.

Table 1: Exposure Assumptions

Age	Exposure Frequency (days/year)[1]	Exposure Duration (years)[2]	Age Sensitivity Factor (ASF)[3]	Fraction of Time at Home (FAH)[4]	Daily Breathing Rate (L/kg BW-day)[5]
Residential Exposure					
Third trimester	350	0.25	10	85%	361
0 to 2 years	350	2	10	85%	1,090
Ages 2 through 9 years	350	7	3	72%	631
Ages 9 through 16 years	350	7	3	72%	572
Ages 16 and greater	350	13.75	1	73%	261

1. The exposure frequency is based on OEHHA *Air Toxics Program Guidance Manual for the Preparation of Health Risk Assessments*, February 2015 (OEHHA Manual); refer to OEHHA Manual Section 5.4.1, Estimation of Exposure through Inhalation.
2. The exposure duration is based on the OEHHA Manual) refer to OEHHA Manual Equation 8.2.4 A.
3. The age sensitivity factor is based on OEHHA Manual Table 8.3, *Age Sensitivity Factors by Age Group for Cancer Risk Assessment*.
4. The fraction of time at home is based on OEHHA Manual Section 8.2.2, *Fraction of Time Spent at Home for Cancer Risk Assessment*.
5. Daily breathing rate normalized to body weight (L/kg body weight – day) (95th percentile for 3rd trimester to 2 years and 80th percentile for other age groups) per OEHHA Manual Table 5.7, *Daily Breathing Rate Distributions by Age Group for Residential Stochastic Analysis (L/kg BW-day)*.

Source: California Office of Environmental Health Hazard Assessment, *Air Toxics Program Guidance Manual for the Preparation of Health Risk Assessments*, February 2015.

To estimate the cancer risk, the dose is multiplied by the cancer potency factor, the ASF, the exposure duration divided by averaging time, and the frequency of time spent at home (for residents only):

$$Risk_{inh\text{-}res} = (Dose_{air}*CPF*ASF*(ED/AT)*FAH)$$

$Risk_{inh\text{-}res}$ = residential inhalation cancer risk (potential chances per million)
$Dose_{air}$ = daily dose through inhalation (mg/kg-day)
CPF = inhalation cancer potency factor (mg/kg-day^{-1})
ASF = age sensitivity factor for a specified age group (unitless)
ED = exposure duration (years)
AT = averaging time of lifetime cancer risk (years)
FAH = fraction of time spent at home (unitless)

Chronic Non-Cancer Risk

Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. The following equation was used to determine the non-cancer risk:

$$Hazard\ Index = C_i/REL_i$$

C_i = concentration in the air of substance i (annual average concentration in µg/m^3)
REL_i = chronic noncancer Reference Exposure Level for substance (µg/m^3)

Acute Non-Cancer Hazard

The potential for acute non-cancer hazards is evaluated by comparing the maximum short-term exposure level to an acute REL. RELs are designed to protect sensitive individuals within the population. The calculation of acute non-cancer impacts is similar to the procedure for chronic non-cancer impacts. The equation is as follows:

$$Acute\ HQ = Maximum\ Hourly\ Air\ Concentration\ (\mu g/m^3) / Acute\ REL\ (\mu g/m^3)$$

Health Risk Computation

A health risk computation was performed to determine the risk of developing an excess cancer risk calculated on a 30-year exposure scenario and the daily breathing rates, age sensitivity factors, exposure duration, and fraction of time at home specified in the OEHHA *Air Toxics Program Guidance Manual for the Preparation of Health Risk Assessments* (February 2015). Health risks were analyzed at the point of maximum impact and are a conservative estimate. The pollutant concentrations are then used to estimate the long-term cancer health risks to an individual as well as the non-cancer chronic health index.

The off-site impacts would occur from the diesel trucks accessing the proposed Project. The cancer and chronic health risks are based on the annual average concentration of PM_{10} (used as a proxy for DPM). As noted above, the chronic and carcinogenic health risk calculations are based on the

standardized equations contained in the U.S. EPA *Human Health Evaluation Manual* (1991) and the OEHHA Guidance Manual (2015).

5.0 Potential Health Risk Impacts

Previous Significance Determination

The Final EIR determined that operational health risk impacts would be less than significant. Typical Sources of carcinogenic and chronically hazardous TACs mostly include DPM from delivery trucks. The Final EIR reported carcinogenic and chronic health risks for the Original Project based on the distance of sensitive receptors from the Original Project boundary[16] and does not separate the emissions from the fueling station. The Final EIR showed that carcinogenic health risk for residences 15 meters (49 feet) from truck activity areas would be 0.63 in one million, while residences 100 meters (328 feet) from truck activity areas would be 0.23 in one million, both of which are below the carcinogenic threshold of 10 in one million. The Final EIR also reported the chronic health risk as 0.00039 for residences 15 meters from truck activity areas and 0.00015 for residences 100 meters from truck activity areas, both are below the 1.0 chronic health index. As a result, the Final EIR determined that the Original Project would not result in any significant health impacts and no mitigation was required.

Proposed Project Analysis

Threshold (a) Expose sensitive receptors to substantial pollutant concentrations.

As with the Original Project, the proposed Project would include fuel delivery trucks which would generate DPM. However, this analysis also includes DPM emissions from construction equipment used during construction of the proposed Project, and TAC (benzene) emissions from the operation of the fueling station which were not included in the Final EIR analysis.

Cancer Risk

As noted above, based on the CARB *Air Quality and Land Use Handbook*, the Project would be considered a large gasoline dispensing facility with a fuel throughput of greater than 3.6 million gallons per year (the Project is anticipated to have a throughput of approximately 5 million gallons per year). Additionally, the dispensing facility would be located more than 300 feet from the property line adjacent to residential land uses and is expected to produce a risk of less than 10 according to the CAPCOA Gasoline Service Station Industry-wide Risk Assessment Guidelines.

The Project would be required to install vapor recovery systems per CARB's ATCM, comply with CARB's Vapor Recovery System Certification Procedure, and Use Enhanced Conventional (ECO) and Enhanced ORVR-Vehicle Recognition (EOR) nozzles, among others. The Project would also be

[16] Final EIR Yucca Valley Retail Specific Plan, 2008 Table 4.3.I, page 4.3-34.

required to comply with MDAQMD Rule 201 (Permit to Construct), Rule 203 (Permit to Operate), and Rule 461 (Gasoline Transfer and Dispensing). These regulations are required to reduce fuel station emissions.

Table 2: Risk Assessment Results shows that carcinogenic risk resulting from the proposed Project would not exceed the 10 in one million threshold. The calculations conservatively assume no cleaner technology with lower emissions in future years. **Table 2** shows that at the maximally exposed receptor, construction risk would be 0.15 in one million and operational risk would be 0.393 in one million. Worst-case worker exposure would also not exceed the 10 in one million threshold. Therefore, carcinogenic hazards are calculated to be within acceptable limits and impacts would be less than significant.

Table 2: Risk Assessment Results

Receptors	Cancer Risk (per million)[1, 2, 3]				
	Construction	Operations			Construction and Operations Combined
		Trucks	Fuel Station	Total Operations	
Residences					
Approximately 440 feet northeast	*0.13*	*0.003*	*0.39*	*0.393*	*0.523*
Approximately 462 feet northwest	0.15	0.002	0.34	0.342	0.492
Significance Threshold (Risk per Million)	*10*	*10*	*10*	*10*	*10*
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**	**No**
Worker Exposure					
Approximately 118 feet east	0.09	*0.003*	0.80	0.803	0.893
Significance Threshold (Risk per Million)	*10*	*10*	*10*	*10*	*10*
Exceeds Significance Threshold?	**No**	**No**	**No**	**No**	**No**

1. The reported risk is at the closest receptor (maximally exposed individual receptor (MEIR)) for each exposure category.
2. Risk from construction and trucks is from PM_{10} and risk from the Gas Dispensing Facility is benzene.
3. The maximum cancer risk is based on worst-case exposure durations for the Project, 95th percentile breathing rates for less than two years old and 80th percentile for two years old and greater, and 30-, 25-, and 9-year averaging time for residences, workers, and students, respectively.

Refer to **Appendix A: HRA Modeling Data**.

Non-Carcinogenic Hazard

The significance thresholds for TAC exposure also require an evaluation of non-cancer risk stated in terms of a hazard index. Non-cancer chronic impacts are calculated by dividing the annual average concentration by the REL for that substance. The REL is defined as the concentration at which no adverse non-cancer health effects are anticipated. The potential for acute non-cancer hazards is evaluated by comparing the maximum short-term exposure level to an acute REL. RELs are designed to protect sensitive individuals within the population. The calculation of acute non-cancer impacts is similar to the procedure for chronic non-cancer impacts.

RELs are designed to protect sensitive individuals within the population. According to OEHHA, the REL for DPM is 5 and the target organ is the respiratory system.[17] There is no acute REL for DPM and the acute health risk cannot be calculated. The chronic and acute REL for benzene is 3 and 27 respectively, and the target organ is the hematologic system.

Acute and chronic impacts are shown in **Table 3: Chronic and Acute Hazard Assessment Results**. An acute or chronic hazard index of 1.0 is considered individually significant. The hazard index is calculated by dividing the acute or chronic exposure by the reference exposure level. **Table 3** shows that non-carcinogenic hazards are calculated to be within acceptable limits and a less than significant impact would occur.

Table 3: Chronic and Acute Hazards Assessment Results

Emissions Sources	Chronic Hazard	Acute Hazard
Residential Receptors		
Construction	0.000256	N/A
Trucks	0.000001	N/A
Fuel Station	0.006269	0.016999
Threshold	*1.0*	*1.0*
Threshold Exceeded?	**No**	**No**
Worker Receptors		
Construction	0.001813	N/A
Trucks	0.000002	N/A
Fuel Station	0.011827	0.027863
Threshold	*1.0*	*1.0*
Threshold Exceeded?	**No**	**No**

N/A = not applicable, acute health risk for DPM cannot be calculated
Refer to **Appendix A: HRA Modeling Data**.

Mitigation Program

None identified in the Final EIR. No additional mitigation measures are required.

Conclusion

No new impacts relative to carcinogenic health risk or non-carcinogenic hazards evaluated in the Original Project Final EIR would occur with the development of the proposed Project. As described above, the proposed Project's carcinogenic risk would not exceed the MDAQMD's threshold of 10 in one million and non-carcinogenic hazards are also below the acceptable limits. It should be noted that the Final EIR did not analyze TAC emissions associated with the fueling station. However, consistent with the CARB *Gasoline Service Station Industrywide Risk Assessment Technical*

[17] California Office of Environmental Health Hazard Assessment, *OEHHA Acute, 8-hour and Chronic Reference Exposure Level (REL) Summary*, https://oehha.ca.gov/air/general-info/oehha-acute-8-hour-and-chronic-reference-exposure-level-rel-summary. Accessed December 2024.

Guidance Manual and *Gasoline Service Station Industrywide Risk Assessment Supplemental Policy Guidance Document,* these emissions have been included in this health risk analysis. As noted previously, even with these additional sources of TACs the health risk remains below MDAQMD's thresholds.

There are no new potentially significant impacts associated with development of the proposed Project; therefore, no mitigation measures are required. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Final EIR was certified is available that would alter the Final EIR's significance finding.

6.0 References

1. California Air Resources Board (CARB), *Air Quality and Land Use Handbook: A Community Health Perspective*, April 2005.
2. CARB, *EMFAC 2021 Web Database*, www.arb.ca.gov/emfac, accessed December 2024.
3. CARB, *Gasoline Service Station Industrywide Risk Assessment Technical Guidance,* February 2022.
4. CARB, *Gasoline Service Station Industrywide Risk Assessment Supplemental Policy Guidance Document,* July 2022.
5. CARB, *Gasoline Service Station Industrywide Risk Assessment Technical Guidance,* February 2022
6. CARB, *Overview: Diesel Exhaust & Health*, https://ww2.arb.ca.gov/resources/overview-diesel-exhaust-and-health, accessed December 2024.
7. CARB, *Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles*, October 2000.
8. California Office of Environmental Health Hazard Assessment (OEHHA), *Air Toxics Hot Spots Program Risk Assessment Guidance Manual for Preparation of Health Risk Assessments*, February 2015.
9. OEHHA, *Air Toxics Hot Spots Program Risk Assessment Guidelines*, August 2003.
10. OEHHA*, CalEnviroScreen 4.0 Results (2022 Update)*, https://oehha.ca.gov/calenviroscreen/report/calenviroscreen-40, accessed December 2024.
11. OEHHA, *OEHHA Acute, 8-hour and Chronic Reference Exposure Level (REL) Summary*, https://oehha.ca.gov/air/general-info/oehha-acute-8-hour-and-chronic-reference-exposure-level-rel-summary, accessed November 2024.
12. City of Yucca Valley, Final Environmental Impact Report State Clearing House No. 2004071127: Yucca Valley Retail Specific Plan, March 2008.
13. Lakes Environmental, *AERMOD View Gaussian Plume Air Dispersion Model*, Version 12.0.0.
14. South Coast Air Quality Management District, *Meteorological Data for Dispersion Modeling*, https://www.aqmd.gov/home/air-quality/meteorological-data/aermod-table-, accessed December 2024.
15. United States Environmental Protection Agency (U.S. EPA), *Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*, Final Rule. 40 Code of Federal Regulations, s 2, 59, 60, 80, 85, 86, 600, 1027, 1030, 1031, 1033, 1036, 1037, 1039, 1042, 1043, 1045, 1048, 1051, 1054, 1060, 1065, 1066, 1068, and 1090. January 24, 2023.

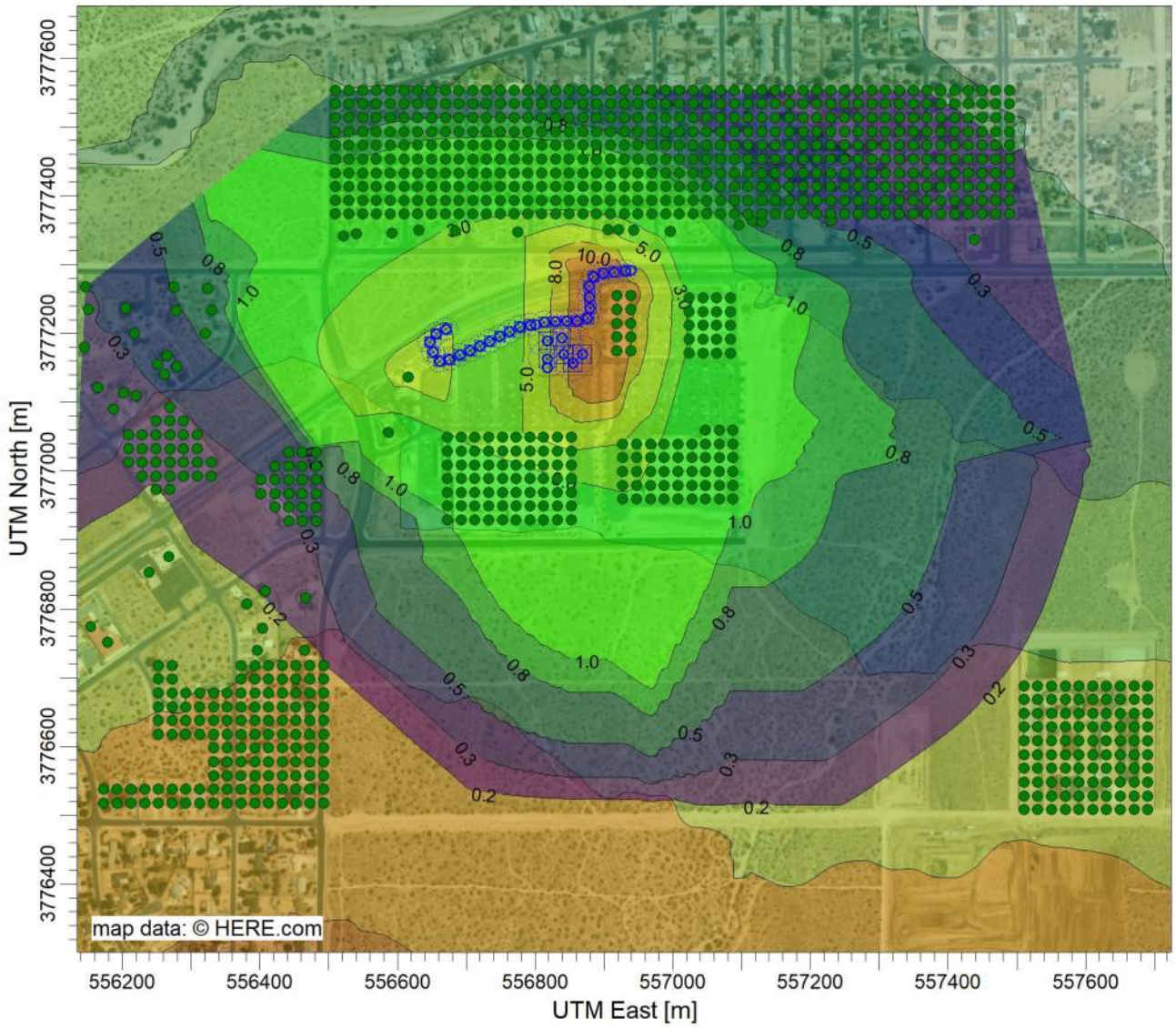
16. United States Environmental Protection Agency (U.S. EPA), *Control of Air Pollution from New Motor Vehicles: Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements*, Final Rule. 40 Code of Federal Regulations, Parts 69, 80, and 86. January 18, 2001.
17. United States Environmental Protection Agency (U.S. EPA), *Exposure Factors Handbook: 2011 Edition*, September 2011.
18. United States Environmental Protection Agency (U.S. EPA), Potential to Emit Calculator for Gasoline Dispensing Facilities, https://www.epa.gov/sites/default/files/2016-06/gasolinedispensingcalculator032315.xlsx, accessed December 2024.

Appendix A

HRA Modeling Data

PROJECT TITLE:

Yucca Valley Walmart Fuel Station
Construction - Unitized Emissions



PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL ug/m^3

Max: 17.1 [ug/m^3] at (556919.02, 3777254.93)

0.2 0.3 0.5 0.8 1.0 3.0 5.0 8.0 10.0 17.1

COMMENTS:	SOURCES: **3**		
	RECEPTORS: **980**		
	OUTPUT TYPE: **Concentration**	SCALE: 1:10,000 0 0.3 km	
	MAX: **17.1 ug/m^3**		PROJECT NO.:

AERMOD View - Lakes Environmental Software

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 8/25/2025
** File:
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Const_Revised\Yucca_Walmart_Const_Revised.
ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL Yucca_Walmart_Const_Revised.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Site Construction
** PREFIX
** Length of Side = 26.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.65
** SZINIT = 3.56
** Nodes = 6
** 556817.802, 3777150.072, 977.86, 0.00, 12.09
** 556817.868, 3777193.832, 976.54, 0.00, 12.09
```

```
** 556840.687, 3777193.661, 976.54, 0.00, 12.09
** 556841.634, 3777156.590, 977.71, 0.00, 12.09
** 556868.989, 3777158.117, 977.47, 0.00, 12.09
** 556867.348, 3777195.323, 976.41, 0.00, 12.09
** ----------------------------------------------------------------------
   LOCATION L0000001     VOLUME   556817.822 3777163.072 977.54
   LOCATION L0000002     VOLUME   556817.861 3777189.072 976.74
   LOCATION L0000003     VOLUME   556839.107 3777193.673 976.62
   LOCATION L0000004     VOLUME   556841.310 3777169.249 977.33
   LOCATION L0000005     VOLUME   556854.949 3777157.333 977.60
   LOCATION L0000006     VOLUME   556868.463 3777170.043 977.12
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Construction Trucks In
** PREFIX
** Length of Side = 16.00
** Configuration = Adjacent
** Emission Rate = 0.455733
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 10
** 556939.370, 3777291.763, 972.05, 3.15, 7.44
** 556891.071, 3777286.325, 972.32, 3.15, 7.44
** 556885.633, 3777283.766, 972.47, 3.15, 7.44
** 556878.916, 3777274.810, 971.92, 3.15, 7.44
** 556878.596, 3777266.814, 971.89, 3.15, 7.44
** 556880.515, 3777227.791, 973.08, 3.15, 7.44
** 556877.317, 3777222.353, 972.96, 3.15, 7.44
** 556869.960, 3777218.515, 973.24, 3.15, 7.44
** 556816.863, 3777216.596, 975.89, 3.15, 7.44
** 556809.186, 3777215.636, 975.95, 3.15, 7.44
** ----------------------------------------------------------------------
   LOCATION L0000059     VOLUME   556931.420 3777290.868 972.16
   LOCATION L0000060     VOLUME   556915.521 3777289.078 972.38
   LOCATION L0000061     VOLUME   556899.621 3777287.288 972.64
   LOCATION L0000062     VOLUME   556884.801 3777282.658 972.71
   LOCATION L0000063     VOLUME   556878.669 3777268.624 971.84
   LOCATION L0000064     VOLUME   556879.293 3777252.643 971.97
   LOCATION L0000065     VOLUME   556880.079 3777236.662 972.44
   LOCATION L0000066     VOLUME   556876.599 3777221.979 972.95
   LOCATION L0000067     VOLUME   556861.454 3777218.207 973.47
   LOCATION L0000068     VOLUME   556845.465 3777217.629 974.69
   LOCATION L0000069     VOLUME   556829.475 3777217.052 975.66
   LOCATION L0000070     VOLUME   556813.509 3777216.176 975.95
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
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```
** DESCRSRC Construction Trucks Out
** PREFIX
** Length of Side = 16.00
** Configuration = Adjacent
** Emission Rate = 0.544267
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 10
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** 556782.638, 3777211.478, 976.21, 3.15, 7.44
** 556700.754, 3777172.775, 977.37, 3.15, 7.44
** 556673.246, 3777161.260, 977.66, 3.15, 7.44
** 556661.731, 3777158.701, 977.81, 3.15, 7.44
** 556650.535, 3777174.694, 977.12, 3.15, 7.44
** 556646.377, 3777184.610, 977.26, 3.15, 7.44
** 556648.296, 3777193.566, 977.48, 3.15, 7.44
** 556656.613, 3777199.643, 977.06, 3.15, 7.44
** 556678.683, 3777210.198, 976.85, 3.15, 7.44
** ----------------------------------------------------------------
   LOCATION L0000045     VOLUME   556793.219 3777212.390 976.18
   LOCATION L0000046     VOLUME   556777.775 3777209.179 976.26
   LOCATION L0000047     VOLUME   556763.309 3777202.342 976.52
   LOCATION L0000048     VOLUME   556748.843 3777195.505 976.73
   LOCATION L0000049     VOLUME   556734.378 3777188.668 976.91
   LOCATION L0000050     VOLUME   556719.912 3777181.830 977.11
   LOCATION L0000051     VOLUME   556705.447 3777174.993 977.31
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   LOCATION L0000054     VOLUME   556661.047 3777159.677 977.71
   LOCATION L0000055     VOLUME   556651.872 3777172.785 977.25
   LOCATION L0000056     VOLUME   556646.989 3777187.463 977.21
   LOCATION L0000057     VOLUME   556656.175 3777199.323 977.21
   LOCATION L0000058     VOLUME   556670.558 3777206.313 976.84
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** Source Parameters **
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   SRCPARAM L0000002     0.1666666667      0.00     12.09      3.56
   SRCPARAM L0000003     0.1666666667      0.00     12.09      3.56
   SRCPARAM L0000004     0.1666666667      0.00     12.09      3.56
   SRCPARAM L0000005     0.1666666667      0.00     12.09      3.56
   SRCPARAM L0000006     0.1666666667      0.00     12.09      3.56
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000059     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000060     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000061     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000062     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000063     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000064     0.03797775      3.15      7.44      2.93
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   SRCPARAM L0000065     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000066     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000067     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000068     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000069     0.03797775      3.15      7.44      2.93
   SRCPARAM L0000070     0.03797775      3.15      7.44      2.93
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0000045     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000046     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000047     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000048     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000049     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000050     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000051     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000052     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000053     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000054     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000055     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000056     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000057     0.0388762143      3.15      7.44      2.93
   SRCPARAM L0000058     0.0388762143      3.15      7.44      2.93
** ------------------------------------------------------------------

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "Scenario 1"
** WeekDays:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000001     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000002     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000003     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000004     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000005     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000006     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000001     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000002     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000003     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000004     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000005     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000006     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000059     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000059     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000060     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000061     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000062     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000063     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000064     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000065     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000066     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000067     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000068     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000069     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000070     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Saturday:
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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```
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000059     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000060     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000061     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000062     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000063     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000064     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000065     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000066     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000067     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000068     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000069     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000070     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** WeekDays:
   EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT L0000045     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000045     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000046     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000047     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000048     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000049     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000050     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000051     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000052     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000053     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000054     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000055     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000056     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0000057     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0000057     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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   EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0000058     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Saturday:
   EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
   EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000045     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000046     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000047     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000048     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000049     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000050     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000051     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000052     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000053     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
```

```
   EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000054     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000055     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000056     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000057     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0000058     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP Onsite   L0000001 L0000002 L0000003 L0000004 L0000005 L0000006
   SRCGROUP Offsite  L0000059 L0000060 L0000061 L0000062 L0000063 L0000064
   SRCGROUP Offsite  L0000065 L0000066 L0000067 L0000068 L0000069 L0000070
   SRCGROUP Offsite  L0000045 L0000046 L0000047 L0000048 L0000049 L0000050
   SRCGROUP Offsite  L0000051 L0000052 L0000053 L0000054 L0000055 L0000056
   SRCGROUP Offsite  L0000057 L0000058
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Yucca_Walmart_Const_Revised.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\kpsp_sfc_pfl\KPSP_V11_trimmed.sfc
   PROFFILE ..\kpsp_sfc_pfl\KPSP_V11_trimmed.pfl
   SURFDATA 93138 2018 33.63 -116.16
   UAIRDATA 3190 2018
   PROFBASE 125.0 METERS
ME FINISHED
**
```

```
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST YUCCA_WALMART_CONST_REVISED.AD\01H1GALL.PLT 31
   PLOTFILE 1 Onsite 1ST YUCCA_WALMART_CONST_REVISED.AD\01H1G001.PLT 32
   PLOTFILE 1 Offsite 1ST YUCCA_WALMART_CONST_REVISED.AD\01H1G002.PLT 33
   PLOTFILE PERIOD ALL YUCCA_WALMART_CONST_REVISED.AD\PE00GALL.PLT 34
   PLOTFILE PERIOD Onsite YUCCA_WALMART_CONST_REVISED.AD\PE00G001.PLT 35
   PLOTFILE PERIOD Offsite YUCCA_WALMART_CONST_REVISED.AD\PE00G002.PLT 36
   SUMMFILE Yucca_Walmart_Const_Revised.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     596       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     596       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

```
                                          ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - -
```

```
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   125.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                              ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.7 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Yucca_Walmart_Const_Revised.err

 **File for Summary of Results:   Yucca_Walmart_Const_Revised.sum

 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000001         0   0.16667E+00  556817.8 3777163.1   977.5     0.00    12.09
3.56     NO    HRDOW            NO
```

```
 L0000002         0   0.16667E+00  556817.9 3777189.1   976.7     0.00    12.09
3.56     NO    HRDOW            NO
 L0000003         0   0.16667E+00  556839.1 3777193.7   976.6     0.00    12.09
3.56     NO    HRDOW            NO
 L0000004         0   0.16667E+00  556841.3 3777169.2   977.3     0.00    12.09
3.56     NO    HRDOW            NO
 L0000005         0   0.16667E+00  556854.9 3777157.3   977.6     0.00    12.09
3.56     NO    HRDOW            NO
 L0000006         0   0.16667E+00  556868.5 3777170.0   977.1     0.00    12.09
3.56     NO    HRDOW            NO
 L0000059         0   0.37978E-01  556931.4 3777290.9   972.2     3.15     7.44
2.93     NO    HRDOW            NO
 L0000060         0   0.37978E-01  556915.5 3777289.1   972.4     3.15     7.44
2.93     NO    HRDOW            NO
 L0000061         0   0.37978E-01  556899.6 3777287.3   972.6     3.15     7.44
2.93     NO    HRDOW            NO
 L0000062         0   0.37978E-01  556884.8 3777282.7   972.7     3.15     7.44
2.93     NO    HRDOW            NO
 L0000063         0   0.37978E-01  556878.7 3777268.6   971.8     3.15     7.44
2.93     NO    HRDOW            NO
 L0000064         0   0.37978E-01  556879.3 3777252.6   972.0     3.15     7.44
2.93     NO    HRDOW            NO
 L0000065         0   0.37978E-01  556880.1 3777236.7   972.4     3.15     7.44
2.93     NO    HRDOW            NO
 L0000066         0   0.37978E-01  556876.6 3777222.0   972.9     3.15     7.44
2.93     NO    HRDOW            NO
 L0000067         0   0.37978E-01  556861.5 3777218.2   973.5     3.15     7.44
2.93     NO    HRDOW            NO
 L0000068         0   0.37978E-01  556845.5 3777217.6   974.7     3.15     7.44
2.93     NO    HRDOW            NO
 L0000069         0   0.37978E-01  556829.5 3777217.1   975.7     3.15     7.44
2.93     NO    HRDOW            NO
 L0000070         0   0.37978E-01  556813.5 3777216.2   975.9     3.15     7.44
2.93     NO    HRDOW            NO
 L0000045         0   0.38876E-01  556793.2 3777212.4   976.2     3.15     7.44
2.93     NO    HRDOW            NO
 L0000046         0   0.38876E-01  556777.8 3777209.2   976.3     3.15     7.44
2.93     NO    HRDOW            NO
 L0000047         0   0.38876E-01  556763.3 3777202.3   976.5     3.15     7.44
2.93     NO    HRDOW            NO
 L0000048         0   0.38876E-01  556748.8 3777195.5   976.7     3.15     7.44
2.93     NO    HRDOW            NO
 L0000049         0   0.38876E-01  556734.4 3777188.7   976.9     3.15     7.44
2.93     NO    HRDOW            NO
 L0000050         0   0.38876E-01  556719.9 3777181.8   977.1     3.15     7.44
2.93     NO    HRDOW            NO
 L0000051         0   0.38876E-01  556705.4 3777175.0   977.3     3.15     7.44
2.93     NO    HRDOW            NO
 L0000052         0   0.38876E-01  556690.8 3777168.6   977.4     3.15     7.44
2.93     NO    HRDOW            NO
```

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 L0000053         0   0.38876E-01  556676.0 3777162.4   977.7     3.15     7.44
2.93     NO    HRDOW            NO
 L0000054         0   0.38876E-01  556661.0 3777159.7   977.7     3.15     7.44
2.93     NO    HRDOW            NO
 L0000055         0   0.38876E-01  556651.9 3777172.8   977.2     3.15     7.44
2.93     NO    HRDOW            NO
 L0000056         0   0.38876E-01  556647.0 3777187.5   977.2     3.15     7.44
2.93     NO    HRDOW            NO
 L0000057         0   0.38876E-01  556656.2 3777199.3   977.2     3.15     7.44
2.93     NO    HRDOW            NO
 L0000058         0   0.38876E-01  556670.6 3777206.3   976.8     3.15     7.44
2.93     NO    HRDOW            NO
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  ONSITE     L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    ,

  OFFSITE    L0000059    , L0000060    , L0000061    , L0000062    , L0000063    ,
L0000064    , L0000065    , L0000066    ,

             L0000067    , L0000068    , L0000069    , L0000070    , L0000045    ,
L0000046    , L0000047    , L0000048    ,

             L0000049    , L0000050    , L0000051    , L0000052    , L0000053    ,
L0000054    , L0000055    , L0000056    ,

             L0000057    , L0000058    ,

  ALL        L0000001    , L0000002    , L0000003    , L0000004    , L0000005    ,
L0000006    , L0000059    , L0000060    ,

             L0000061    , L0000062    , L0000063    , L0000064    , L0000065    ,
L0000066    , L0000067    , L0000068    ,

             L0000069    , L0000070    , L0000045    , L0000046    , L0000047    ,
L0000048    , L0000049    , L0000050    ,
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000001 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

```
                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000002     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000003     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
```

```
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000004     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000005   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000006     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000059     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

```
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                  PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000060     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

```
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                  PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000061     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000062 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0000063 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000064     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000065     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
```

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000066   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                  DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                  DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                  DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000067   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

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 - - -
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000069     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 24142  ***   ***
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                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000070   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                  DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                  DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                  DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0000045   ; SOURCE TYPE = VOLUME   :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000046     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000047     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00
↑ *** AERMOD - VERSION 24142 ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   11:13:13

                                 PAGE 25
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000048   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                 DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
↑ *** AERMOD - VERSION 24142 ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   11:13:13

                                 PAGE 26
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0000049     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000050     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       11:13:13

                                  PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000051     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000052     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000053     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000054     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
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14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000055     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000056   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000057     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0000058     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     ( 556521.7, 3777341.6,     974.8,     974.8,       0.0);         ( 556539.9,
3777344.9,     974.6,     974.6,       0.0);
     ( 556591.8, 3777345.4,     974.7,     974.7,       0.0);         ( 556630.6,
3777349.7,     974.5,     974.5,       0.0);
     ( 556684.3, 3777349.4,     974.0,     974.0,       0.0);         ( 556905.6,
3777351.2,     972.5,     972.5,       0.0);
     ( 556920.9, 3777350.8,     972.0,     972.0,       0.0);         ( 556942.9,
3777350.1,     971.7,     971.7,       0.0);
     ( 556996.3, 3777348.3,     971.4,     971.4,       0.0);         ( 557096.8,
3777357.8,     968.8,     968.8,       0.0);
     ( 557115.8, 3777363.6,     968.3,     968.3,       0.0);         ( 557129.4,
3777361.4,     967.9,     967.9,       0.0);
     ( 557230.7, 3777364.0,     966.6,     966.6,       0.0);         ( 556466.2,
3776816.1,     988.3,     988.3,       0.0);
     ( 556407.9, 3776826.2,     987.6,     987.6,       0.0);         ( 556381.1,
3776807.1,     987.6,     987.6,       0.0);
     ( 556404.3, 3776771.5,     988.7,     988.7,       0.0);         ( 556465.2,
3776739.5,     990.3,     990.3,       0.0);
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     ( 556396.1, 3776739.9,     989.3,     989.3,       0.0);         ( 556324.0,
3777265.4,     977.0,     977.0,       0.0);
     ( 556330.6, 3777234.0,     977.5,     977.5,       0.0);         ( 556321.1,
3777200.4,     978.2,     978.2,       0.0);
     ( 556275.1, 3777267.8,     976.2,     976.2,       0.0);         ( 556278.3,
3777233.5,     977.0,     977.0,       0.0);
     ( 556509.4, 3777373.4,     974.1,     974.1,       0.0);         ( 556529.4,
3777373.4,     973.9,     973.9,       0.0);
     ( 556549.4, 3777373.4,     973.9,     973.9,       0.0);         ( 556569.4,
3777373.4,     973.7,     973.7,       0.0);
     ( 556589.4, 3777373.4,     973.8,     973.8,       0.0);         ( 556609.4,
3777373.4,     973.7,     973.7,       0.0);
     ( 556629.4, 3777373.4,     973.7,     973.7,       0.0);         ( 556649.4,
3777373.4,     973.5,     973.5,       0.0);
     ( 556669.4, 3777373.4,     973.5,     973.5,       0.0);         ( 556689.4,
3777373.4,     973.7,     973.7,       0.0);
     ( 556709.4, 3777373.4,     973.8,     973.8,       0.0);         ( 556729.4,
3777373.4,     973.8,     973.8,       0.0);
     ( 556749.4, 3777373.4,     973.9,     973.9,       0.0);         ( 556769.4,
3777373.4,     973.6,     973.6,       0.0);
     ( 556789.4, 3777373.4,     973.3,     973.3,       0.0);         ( 556809.4,
3777373.4,     973.3,     973.3,       0.0);
     ( 556829.4, 3777373.4,     973.1,     973.1,       0.0);         ( 556849.4,
3777373.4,     972.8,     972.8,       0.0);
     ( 556869.4, 3777373.4,     972.6,     972.6,       0.0);         ( 556889.4,
3777373.4,     972.2,     972.2,       0.0);
     ( 556909.4, 3777373.4,     971.8,     971.8,       0.0);         ( 556929.4,
3777373.4,     971.3,     971.3,       0.0);
     ( 556949.4, 3777373.4,     971.0,     971.0,       0.0);         ( 556969.4,
3777373.4,     970.9,     970.9,       0.0);
     ( 556989.4, 3777373.4,     970.6,     970.6,       0.0);         ( 557009.4,
3777373.4,     970.3,     970.3,       0.0);
     ( 557029.4, 3777373.4,     970.2,     970.2,       0.0);         ( 557049.4,
3777373.4,     969.8,     969.8,       0.0);
     ( 557069.4, 3777373.4,     969.2,     969.2,       0.0);         ( 557089.4,
3777373.4,     968.7,     968.7,       0.0);
     ( 557109.4, 3777373.4,     968.2,     968.2,       0.0);         ( 557129.4,
3777373.4,     967.7,     967.7,       0.0);
     ( 557149.4, 3777373.4,     967.3,     967.3,       0.0);         ( 557169.4,
3777373.4,     967.0,     967.0,       0.0);
     ( 557189.4, 3777373.4,     966.9,     966.9,       0.0);         ( 557209.4,
3777373.4,     966.8,     966.8,       0.0);
     ( 557229.4, 3777373.4,     966.5,     966.5,       0.0);         ( 557249.4,
3777373.4,     966.1,     966.1,       0.0);
     ( 557269.4, 3777373.4,     965.7,     965.7,       0.0);         ( 557289.4,
3777373.4,     965.5,     965.5,       0.0);
     ( 557309.4, 3777373.4,     965.4,     965.4,       0.0);         ( 557329.4,
3777373.4,     964.8,     964.8,       0.0);
     ( 557349.4, 3777373.4,     964.8,     964.8,       0.0);         ( 557369.4,
3777373.4,     964.5,     964.5,       0.0);
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     ( 557389.4, 3777373.4,     964.1,     964.1,       0.0);         ( 557409.4,
3777373.4,     963.8,     963.8,       0.0);
     ( 557429.4, 3777373.4,     963.2,     963.2,       0.0);         ( 557449.4,
3777373.4,     962.9,     962.9,       0.0);
     ( 557469.4, 3777373.4,     962.4,     962.4,       0.0);         ( 557489.4,
3777373.4,     961.3,     961.3,       0.0);
     ( 556509.4, 3777393.4,     973.6,     973.6,       0.0);         ( 556529.4,
3777393.4,     973.4,     973.4,       0.0);
     ( 556549.4, 3777393.4,     973.3,     973.3,       0.0);         ( 556569.4,
3777393.4,     973.1,     973.1,       0.0);
     ( 556589.4, 3777393.4,     973.3,     973.3,       0.0);         ( 556609.4,
3777393.4,     973.3,     973.3,       0.0);
     ( 556629.4, 3777393.4,     973.4,     973.4,       0.0);         ( 556649.4,
3777393.4,     973.2,     973.2,       0.0);
     ( 556669.4, 3777393.4,     973.0,     973.0,       0.0);         ( 556689.4,
3777393.4,     973.0,     973.0,       0.0);
     ( 556709.4, 3777393.4,     973.3,     973.3,       0.0);         ( 556729.4,
3777393.4,     973.3,     973.3,       0.0);
     ( 556749.4, 3777393.4,     973.5,     973.5,       0.0);         ( 556769.4,
3777393.4,     973.3,     973.3,       0.0);
     ( 556789.4, 3777393.4,     972.9,     972.9,       0.0);         ( 556809.4,
3777393.4,     972.8,     972.8,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                  PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 556829.4, 3777393.4,     972.6,     972.6,       0.0);         ( 556849.4,
3777393.4,     972.0,     972.0,       0.0);
     ( 556869.4, 3777393.4,     971.7,     971.7,       0.0);         ( 556889.4,
3777393.4,     971.7,     971.7,       0.0);
     ( 556909.4, 3777393.4,     971.2,     971.2,       0.0);         ( 556929.4,
3777393.4,     971.0,     971.0,       0.0);
     ( 556949.4, 3777393.4,     970.4,     970.4,       0.0);         ( 556969.4,
3777393.4,     970.3,     970.3,       0.0);
     ( 556989.4, 3777393.4,     970.2,     970.2,       0.0);         ( 557009.4,
3777393.4,     970.1,     970.1,       0.0);
     ( 557029.4, 3777393.4,     969.7,     969.7,       0.0);         ( 557049.4,
3777393.4,     969.4,     969.4,       0.0);
     ( 557069.4, 3777393.4,     969.0,     969.0,       0.0);         ( 557089.4,
3777393.4,     968.6,     968.6,       0.0);
     ( 557109.4, 3777393.4,     968.2,     968.2,       0.0);         ( 557129.4,
```

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3777393.4,     967.5,     967.5,       0.0);
     ( 557149.4, 3777393.4,     967.2,     967.2,       0.0);         ( 557169.4,
3777393.4,     966.6,     966.6,       0.0);
     ( 557189.4, 3777393.4,     966.2,     966.2,       0.0);         ( 557209.4,
3777393.4,     966.2,     966.2,       0.0);
     ( 557229.4, 3777393.4,     966.2,     966.2,       0.0);         ( 557249.4,
3777393.4,     965.8,     965.8,       0.0);
     ( 557269.4, 3777393.4,     965.5,     965.5,       0.0);         ( 557289.4,
3777393.4,     965.1,     965.1,       0.0);
     ( 557309.4, 3777393.4,     964.4,     964.4,       0.0);         ( 557329.4,
3777393.4,     964.5,     964.5,       0.0);
     ( 557349.4, 3777393.4,     964.2,     964.2,       0.0);         ( 557369.4,
3777393.4,     964.1,     964.1,       0.0);
     ( 557389.4, 3777393.4,     963.9,     963.9,       0.0);         ( 557409.4,
3777393.4,     963.4,     963.4,       0.0);
     ( 557429.4, 3777393.4,     963.0,     963.0,       0.0);         ( 557449.4,
3777393.4,     962.8,     962.8,       0.0);
     ( 557469.4, 3777393.4,     962.1,     962.1,       0.0);         ( 557489.4,
3777393.4,     961.1,     961.1,       0.0);
     ( 556509.4, 3777413.4,     973.0,     973.0,       0.0);         ( 556529.4,
3777413.4,     973.0,     973.0,       0.0);
     ( 556549.4, 3777413.4,     973.0,     973.0,       0.0);         ( 556569.4,
3777413.4,     973.1,     973.1,       0.0);
     ( 556589.4, 3777413.4,     973.1,     973.1,       0.0);         ( 556609.4,
3777413.4,     973.1,     973.1,       0.0);
     ( 556629.4, 3777413.4,     973.1,     973.1,       0.0);         ( 556649.4,
3777413.4,     972.8,     972.8,       0.0);
     ( 556669.4, 3777413.4,     972.8,     972.8,       0.0);         ( 556689.4,
3777413.4,     972.8,     972.8,       0.0);
     ( 556709.4, 3777413.4,     973.0,     973.0,       0.0);         ( 556729.4,
3777413.4,     973.0,     973.0,       0.0);
     ( 556749.4, 3777413.4,     972.8,     972.8,       0.0);         ( 556769.4,
3777413.4,     973.0,     973.0,       0.0);
     ( 556789.4, 3777413.4,     972.6,     972.6,       0.0);         ( 556809.4,
3777413.4,     972.5,     972.5,       0.0);
     ( 556829.4, 3777413.4,     972.1,     972.1,       0.0);         ( 556849.4,
3777413.4,     971.6,     971.6,       0.0);
     ( 556869.4, 3777413.4,     971.6,     971.6,       0.0);         ( 556889.4,
3777413.4,     971.2,     971.2,       0.0);
     ( 556909.4, 3777413.4,     970.9,     970.9,       0.0);         ( 556929.4,
3777413.4,     970.9,     970.9,       0.0);
     ( 556949.4, 3777413.4,     970.1,     970.1,       0.0);         ( 556969.4,
3777413.4,     969.8,     969.8,       0.0);
     ( 556989.4, 3777413.4,     969.5,     969.5,       0.0);         ( 557009.4,
3777413.4,     969.5,     969.5,       0.0);
     ( 557029.4, 3777413.4,     969.2,     969.2,       0.0);         ( 557049.4,
3777413.4,     969.0,     969.0,       0.0);
     ( 557069.4, 3777413.4,     968.7,     968.7,       0.0);         ( 557089.4,
3777413.4,     968.3,     968.3,       0.0);
     ( 557109.4, 3777413.4,     968.1,     968.1,       0.0);         ( 557129.4,
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3777413.4,   967.2,   967.2,   0.0);
     (557149.4, 3777413.4,   967.1,   967.1,   0.0);   (557169.4,
3777413.4,   966.4,   966.4,   0.0);
     (557189.4, 3777413.4,   966.1,   966.1,   0.0);   (557209.4,
3777413.4,   966.0,   966.0,   0.0);
     (557229.4, 3777413.4,   965.6,   965.6,   0.0);   (557249.4,
3777413.4,   965.3,   965.3,   0.0);
     (557269.4, 3777413.4,   965.1,   965.1,   0.0);   (557289.4,
3777413.4,   964.8,   964.8,   0.0);
     (557309.4, 3777413.4,   964.5,   964.5,   0.0);   (557329.4,
3777413.4,   964.0,   964.0,   0.0);
     (557349.4, 3777413.4,   964.0,   964.0,   0.0);   (557369.4,
3777413.4,   963.5,   963.5,   0.0);
     (557389.4, 3777413.4,   963.4,   963.4,   0.0);   (557409.4,
3777413.4,   963.3,   963.3,   0.0);
     (557429.4, 3777413.4,   962.5,   962.5,   0.0);   (557449.4,
3777413.4,   962.2,   962.2,   0.0);
     (557469.4, 3777413.4,   962.1,   962.1,   0.0);   (557489.4,
3777413.4,   961.3,   961.3,   0.0);
     (556509.4, 3777433.4,   972.6,   972.6,   0.0);   (556529.4,
3777433.4,   972.6,   972.6,   0.0);
     (556549.4, 3777433.4,   972.5,   972.5,   0.0);   (556569.4,
3777433.4,   972.5,   972.5,   0.0);
     (556589.4, 3777433.4,   972.7,   972.7,   0.0);   (556609.4,
3777433.4,   972.8,   972.8,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (556629.4, 3777433.4,   972.8,   972.8,   0.0);   (556649.4,
3777433.4,   972.7,   972.7,   0.0);
     (556669.4, 3777433.4,   972.6,   972.6,   0.0);   (556689.4,
3777433.4,   972.8,   972.8,   0.0);
     (556709.4, 3777433.4,   972.8,   972.8,   0.0);   (556729.4,
3777433.4,   972.9,   972.9,   0.0);
     (556749.4, 3777433.4,   972.6,   972.6,   0.0);   (556769.4,
3777433.4,   972.8,   972.8,   0.0);
     (556789.4, 3777433.4,   972.4,   972.4,   0.0);   (556809.4,
3777433.4,   972.0,   972.0,   0.0);
     (556829.4, 3777433.4,   971.6,   971.6,   0.0);   (556849.4,
3777433.4,   971.0,   971.0,   0.0);

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     ( 556869.4, 3777433.4,     970.9,     970.9,       0.0);         ( 556889.4,
3777433.4,     970.7,     970.7,       0.0);
     ( 556909.4, 3777433.4,     970.5,     970.5,       0.0);         ( 556929.4,
3777433.4,     970.2,     970.2,       0.0);
     ( 556949.4, 3777433.4,     969.9,     969.9,       0.0);         ( 556969.4,
3777433.4,     969.3,     969.3,       0.0);
     ( 556989.4, 3777433.4,     968.9,     968.9,       0.0);         ( 557009.4,
3777433.4,     969.1,     969.1,       0.0);
     ( 557029.4, 3777433.4,     968.9,     968.9,       0.0);         ( 557049.4,
3777433.4,     968.8,     968.8,       0.0);
     ( 557069.4, 3777433.4,     968.4,     968.4,       0.0);         ( 557089.4,
3777433.4,     968.0,     968.0,       0.0);
     ( 557109.4, 3777433.4,     967.8,     967.8,       0.0);         ( 557129.4,
3777433.4,     967.1,     967.1,       0.0);
     ( 557149.4, 3777433.4,     966.8,     966.8,       0.0);         ( 557169.4,
3777433.4,     966.1,     966.1,       0.0);
     ( 557189.4, 3777433.4,     965.8,     965.8,       0.0);         ( 557209.4,
3777433.4,     965.6,     965.6,       0.0);
     ( 557229.4, 3777433.4,     965.0,     965.0,       0.0);         ( 557249.4,
3777433.4,     965.0,     965.0,       0.0);
     ( 557269.4, 3777433.4,     964.7,     964.7,       0.0);         ( 557289.4,
3777433.4,     964.2,     964.2,       0.0);
     ( 557309.4, 3777433.4,     964.3,     964.3,       0.0);         ( 557329.4,
3777433.4,     963.7,     963.7,       0.0);
     ( 557349.4, 3777433.4,     962.9,     962.9,       0.0);         ( 557369.4,
3777433.4,     962.7,     962.7,       0.0);
     ( 557389.4, 3777433.4,     963.2,     963.2,       0.0);         ( 557409.4,
3777433.4,     963.2,     963.2,       0.0);
     ( 557429.4, 3777433.4,     962.2,     962.2,       0.0);         ( 557449.4,
3777433.4,     961.9,     961.9,       0.0);
     ( 557469.4, 3777433.4,     961.5,     961.5,       0.0);         ( 557489.4,
3777433.4,     961.1,     961.1,       0.0);
     ( 556509.4, 3777453.4,     972.2,     972.2,       0.0);         ( 556529.4,
3777453.4,     972.2,     972.2,       0.0);
     ( 556549.4, 3777453.4,     972.3,     972.3,       0.0);         ( 556569.4,
3777453.4,     972.2,     972.2,       0.0);
     ( 556589.4, 3777453.4,     972.3,     972.3,       0.0);         ( 556609.4,
3777453.4,     972.3,     972.3,       0.0);
     ( 556629.4, 3777453.4,     972.5,     972.5,       0.0);         ( 556649.4,
3777453.4,     972.5,     972.5,       0.0);
     ( 556669.4, 3777453.4,     972.4,     972.4,       0.0);         ( 556689.4,
3777453.4,     972.4,     972.4,       0.0);
     ( 556709.4, 3777453.4,     972.4,     972.4,       0.0);         ( 556729.4,
3777453.4,     972.6,     972.6,       0.0);
     ( 556749.4, 3777453.4,     972.6,     972.6,       0.0);         ( 556769.4,
3777453.4,     972.4,     972.4,       0.0);
     ( 556789.4, 3777453.4,     972.0,     972.0,       0.0);         ( 556809.4,
3777453.4,     971.6,     971.6,       0.0);
     ( 556829.4, 3777453.4,     971.4,     971.4,       0.0);         ( 556849.4,
3777453.4,     970.9,     970.9,       0.0);
```

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     ( 556869.4, 3777453.4,     970.8,     970.8,       0.0);         ( 556889.4,
3777453.4,     970.2,     970.2,       0.0);
     ( 556909.4, 3777453.4,     970.1,     970.1,       0.0);         ( 556929.4,
3777453.4,     969.5,     969.5,       0.0);
     ( 556949.4, 3777453.4,     969.3,     969.3,       0.0);         ( 556969.4,
3777453.4,     968.9,     968.9,       0.0);
     ( 556989.4, 3777453.4,     968.5,     968.5,       0.0);         ( 557009.4,
3777453.4,     968.1,     968.1,       0.0);
     ( 557029.4, 3777453.4,     968.0,     968.0,       0.0);         ( 557049.4,
3777453.4,     967.9,     967.9,       0.0);
     ( 557069.4, 3777453.4,     967.9,     967.9,       0.0);         ( 557089.4,
3777453.4,     967.7,     967.7,       0.0);
     ( 557109.4, 3777453.4,     967.5,     967.5,       0.0);         ( 557129.4,
3777453.4,     967.0,     967.0,       0.0);
     ( 557149.4, 3777453.4,     966.7,     966.7,       0.0);         ( 557169.4,
3777453.4,     965.8,     965.8,       0.0);
     ( 557189.4, 3777453.4,     965.4,     965.4,       0.0);         ( 557209.4,
3777453.4,     965.3,     965.3,       0.0);
     ( 557229.4, 3777453.4,     964.7,     964.7,       0.0);         ( 557249.4,
3777453.4,     964.7,     964.7,       0.0);
     ( 557269.4, 3777453.4,     964.3,     964.3,       0.0);         ( 557289.4,
3777453.4,     963.9,     963.9,       0.0);
     ( 557309.4, 3777453.4,     963.8,     963.8,       0.0);         ( 557329.4,
3777453.4,     963.5,     963.5,       0.0);
     ( 557349.4, 3777453.4,     963.2,     963.2,       0.0);         ( 557369.4,
3777453.4,     962.4,     962.4,       0.0);
     ( 557389.4, 3777453.4,     962.3,     962.9,       0.0);         ( 557409.4,
3777453.4,     962.6,     962.6,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 557429.4, 3777453.4,     962.3,     962.3,       0.0);         ( 557449.4,
3777453.4,     961.9,     961.9,       0.0);
     ( 557469.4, 3777453.4,     961.4,     961.4,       0.0);         ( 557489.4,
3777453.4,     960.7,     960.7,       0.0);
     ( 556509.4, 3777473.4,     971.8,     971.8,       0.0);         ( 556529.4,
3777473.4,     971.6,     971.6,       0.0);
     ( 556549.4, 3777473.4,     971.6,     971.6,       0.0);         ( 556569.4,
3777473.4,     971.9,     971.9,       0.0);
     ( 556589.4, 3777473.4,     971.8,     971.8,       0.0);         ( 556609.4,
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3777473.4,     971.8,     971.8,       0.0);
     ( 556629.4, 3777473.4,     971.9,     971.9,       0.0);         ( 556649.4,
3777473.4,     972.0,     972.0,       0.0);
     ( 556669.4, 3777473.4,     972.0,     972.0,       0.0);         ( 556689.4,
3777473.4,     971.9,     971.9,       0.0);
     ( 556709.4, 3777473.4,     972.0,     972.0,       0.0);         ( 556729.4,
3777473.4,     972.3,     972.3,       0.0);
     ( 556749.4, 3777473.4,     972.1,     972.1,       0.0);         ( 556769.4,
3777473.4,     972.0,     972.0,       0.0);
     ( 556789.4, 3777473.4,     971.5,     971.5,       0.0);         ( 556809.4,
3777473.4,     971.2,     971.2,       0.0);
     ( 556829.4, 3777473.4,     970.9,     970.9,       0.0);         ( 556849.4,
3777473.4,     970.7,     970.7,       0.0);
     ( 556869.4, 3777473.4,     970.5,     970.5,       0.0);         ( 556889.4,
3777473.4,     969.8,     969.8,       0.0);
     ( 556909.4, 3777473.4,     969.7,     969.7,       0.0);         ( 556929.4,
3777473.4,     969.4,     969.4,       0.0);
     ( 556949.4, 3777473.4,     969.1,     969.1,       0.0);         ( 556969.4,
3777473.4,     968.7,     968.7,       0.0);
     ( 556989.4, 3777473.4,     968.3,     968.3,       0.0);         ( 557009.4,
3777473.4,     968.0,     968.0,       0.0);
     ( 557029.4, 3777473.4,     967.8,     967.8,       0.0);         ( 557049.4,
3777473.4,     967.5,     967.5,       0.0);
     ( 557069.4, 3777473.4,     967.6,     967.6,       0.0);         ( 557089.4,
3777473.4,     967.3,     967.3,       0.0);
     ( 557109.4, 3777473.4,     967.2,     967.2,       0.0);         ( 557129.4,
3777473.4,     966.6,     966.6,       0.0);
     ( 557149.4, 3777473.4,     966.5,     966.5,       0.0);         ( 557169.4,
3777473.4,     965.6,     965.6,       0.0);
     ( 557189.4, 3777473.4,     965.2,     965.2,       0.0);         ( 557209.4,
3777473.4,     964.9,     964.9,       0.0);
     ( 557229.4, 3777473.4,     964.4,     964.4,       0.0);         ( 557249.4,
3777473.4,     964.4,     964.4,       0.0);
     ( 557269.4, 3777473.4,     963.9,     963.9,       0.0);         ( 557289.4,
3777473.4,     963.5,     963.5,       0.0);
     ( 557309.4, 3777473.4,     963.4,     963.4,       0.0);         ( 557329.4,
3777473.4,     963.2,     963.2,       0.0);
     ( 557349.4, 3777473.4,     962.9,     962.9,       0.0);         ( 557369.4,
3777473.4,     962.6,     962.6,       0.0);
     ( 557389.4, 3777473.4,     962.1,     962.1,       0.0);         ( 557409.4,
3777473.4,     962.1,     962.1,       0.0);
     ( 557429.4, 3777473.4,     961.6,     961.6,       0.0);         ( 557449.4,
3777473.4,     961.8,     961.8,       0.0);
     ( 557469.4, 3777473.4,     961.3,     961.3,       0.0);         ( 557489.4,
3777473.4,     960.7,     960.7,       0.0);
     ( 556509.4, 3777493.4,     971.4,     971.4,       0.0);         ( 556529.4,
3777493.4,     971.5,     971.5,       0.0);
     ( 556549.4, 3777493.4,     971.5,     971.5,       0.0);         ( 556569.4,
3777493.4,     971.1,     971.1,       0.0);
     ( 556589.4, 3777493.4,     971.1,     971.1,       0.0);         ( 556609.4,
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3777493.4,     971.3,     971.3,       0.0);
     ( 556629.4, 3777493.4,     971.2,     971.2,       0.0);         ( 556649.4,
3777493.4,     971.3,     971.3,       0.0);
     ( 556669.4, 3777493.4,     971.6,     971.6,       0.0);         ( 556689.4,
3777493.4,     971.6,     971.6,       0.0);
     ( 556709.4, 3777493.4,     971.7,     971.7,       0.0);         ( 556729.4,
3777493.4,     972.1,     972.1,       0.0);
     ( 556749.4, 3777493.4,     971.7,     971.7,       0.0);         ( 556769.4,
3777493.4,     971.6,     971.6,       0.0);
     ( 556789.4, 3777493.4,     971.1,     971.1,       0.0);         ( 556809.4,
3777493.4,     970.6,     970.6,       0.0);
     ( 556829.4, 3777493.4,     970.5,     970.5,       0.0);         ( 556849.4,
3777493.4,     970.2,     970.2,       0.0);
     ( 556869.4, 3777493.4,     970.1,     970.1,       0.0);         ( 556889.4,
3777493.4,     969.6,     969.6,       0.0);
     ( 556909.4, 3777493.4,     969.4,     969.4,       0.0);         ( 556929.4,
3777493.4,     969.0,     969.0,       0.0);
     ( 556949.4, 3777493.4,     968.7,     968.7,       0.0);         ( 556969.4,
3777493.4,     968.2,     968.2,       0.0);
     ( 556989.4, 3777493.4,     968.0,     968.0,       0.0);         ( 557009.4,
3777493.4,     967.9,     967.9,       0.0);
     ( 557029.4, 3777493.4,     967.5,     967.5,       0.0);         ( 557049.4,
3777493.4,     967.2,     967.2,       0.0);
     ( 557069.4, 3777493.4,     967.1,     967.1,       0.0);         ( 557089.4,
3777493.4,     966.8,     966.8,       0.0);
     ( 557109.4, 3777493.4,     966.9,     966.9,       0.0);         ( 557129.4,
3777493.4,     966.5,     966.5,       0.0);
     ( 557149.4, 3777493.4,     966.2,     966.2,       0.0);         ( 557169.4,
3777493.4,     965.6,     965.6,       0.0);
     ( 557189.4, 3777493.4,     964.9,     964.9,       0.0);         ( 557209.4,
3777493.4,     964.7,     964.7,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 557229.4, 3777493.4,     964.1,     964.1,       0.0);         ( 557249.4,
3777493.4,     963.8,     963.8,       0.0);
     ( 557269.4, 3777493.4,     963.5,     963.5,       0.0);         ( 557289.4,
3777493.4,     963.2,     963.2,       0.0);
     ( 557309.4, 3777493.4,     962.8,     962.8,       0.0);         ( 557329.4,
3777493.4,     962.6,     962.6,       0.0);
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     ( 557349.4, 3777493.4,     962.4,     962.4,       0.0);         ( 557369.4,
3777493.4,     962.2,     962.2,       0.0);
     ( 557389.4, 3777493.4,     962.1,     962.1,       0.0);         ( 557409.4,
3777493.4,     961.9,     961.9,       0.0);
     ( 557429.4, 3777493.4,     961.0,     961.0,       0.0);         ( 557449.4,
3777493.4,     960.9,     961.3,       0.0);
     ( 557469.4, 3777493.4,     961.0,     961.0,       0.0);         ( 557489.4,
3777493.4,     960.6,     960.6,       0.0);
     ( 556509.4, 3777513.4,     971.0,     971.0,       0.0);         ( 556529.4,
3777513.4,     971.0,     971.0,       0.0);
     ( 556549.4, 3777513.4,     970.8,     970.8,       0.0);         ( 556569.4,
3777513.4,     971.2,     971.2,       0.0);
     ( 556589.4, 3777513.4,     971.1,     971.1,       0.0);         ( 556609.4,
3777513.4,     970.9,     970.9,       0.0);
     ( 556629.4, 3777513.4,     971.2,     971.2,       0.0);         ( 556649.4,
3777513.4,     971.3,     971.3,       0.0);
     ( 556669.4, 3777513.4,     971.4,     971.4,       0.0);         ( 556689.4,
3777513.4,     971.2,     971.2,       0.0);
     ( 556709.4, 3777513.4,     971.4,     971.4,       0.0);         ( 556729.4,
3777513.4,     971.9,     971.9,       0.0);
     ( 556749.4, 3777513.4,     971.5,     971.5,       0.0);         ( 556769.4,
3777513.4,     971.5,     971.5,       0.0);
     ( 556789.4, 3777513.4,     971.0,     971.0,       0.0);         ( 556809.4,
3777513.4,     970.2,     970.2,       0.0);
     ( 556829.4, 3777513.4,     970.0,     970.0,       0.0);         ( 556849.4,
3777513.4,     969.6,     969.6,       0.0);
     ( 556869.4, 3777513.4,     969.5,     969.5,       0.0);         ( 556889.4,
3777513.4,     969.3,     969.3,       0.0);
     ( 556909.4, 3777513.4,     968.8,     968.8,       0.0);         ( 556929.4,
3777513.4,     968.6,     968.6,       0.0);
     ( 556949.4, 3777513.4,     968.4,     968.4,       0.0);         ( 556969.4,
3777513.4,     967.9,     967.9,       0.0);
     ( 556989.4, 3777513.4,     967.6,     967.6,       0.0);         ( 557009.4,
3777513.4,     967.5,     967.5,       0.0);
     ( 557029.4, 3777513.4,     967.1,     967.1,       0.0);         ( 557049.4,
3777513.4,     967.0,     967.0,       0.0);
     ( 557069.4, 3777513.4,     966.6,     966.6,       0.0);         ( 557089.4,
3777513.4,     966.4,     966.4,       0.0);
     ( 557109.4, 3777513.4,     966.3,     966.3,       0.0);         ( 557129.4,
3777513.4,     966.1,     966.1,       0.0);
     ( 557149.4, 3777513.4,     966.0,     966.0,       0.0);         ( 557169.4,
3777513.4,     965.5,     965.5,       0.0);
     ( 557189.4, 3777513.4,     964.8,     964.8,       0.0);         ( 557209.4,
3777513.4,     964.6,     964.6,       0.0);
     ( 557229.4, 3777513.4,     963.9,     963.9,       0.0);         ( 557249.4,
3777513.4,     963.7,     963.7,       0.0);
     ( 557269.4, 3777513.4,     963.3,     963.3,       0.0);         ( 557289.4,
3777513.4,     962.8,     962.8,       0.0);
     ( 557309.4, 3777513.4,     962.6,     962.6,       0.0);         ( 557329.4,
3777513.4,     962.4,     962.4,       0.0);
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     ( 557349.4, 3777513.4,     962.1,     962.1,       0.0);         ( 557369.4,
3777513.4,     961.7,     961.7,       0.0);
     ( 557389.4, 3777513.4,     961.6,     961.6,       0.0);         ( 557409.4,
3777513.4,     961.5,     961.5,       0.0);
     ( 557429.4, 3777513.4,     961.0,     961.0,       0.0);         ( 557449.4,
3777513.4,     960.6,     960.6,       0.0);
     ( 557469.4, 3777513.4,     960.4,     960.4,       0.0);         ( 557489.4,
3777513.4,     960.2,     960.2,       0.0);
     ( 556509.4, 3777533.4,     970.5,     970.5,       0.0);         ( 556529.4,
3777533.4,     970.6,     970.6,       0.0);
     ( 556549.4, 3777533.4,     970.5,     970.5,       0.0);         ( 556569.4,
3777533.4,     970.5,     970.5,       0.0);
     ( 556589.4, 3777533.4,     970.4,     970.4,       0.0);         ( 556609.4,
3777533.4,     970.5,     970.5,       0.0);
     ( 556629.4, 3777533.4,     970.6,     970.6,       0.0);         ( 556649.4,
3777533.4,     970.7,     970.7,       0.0);
     ( 556669.4, 3777533.4,     970.6,     970.6,       0.0);         ( 556689.4,
3777533.4,     970.7,     970.7,       0.0);
     ( 556709.4, 3777533.4,     971.2,     971.2,       0.0);         ( 556729.4,
3777533.4,     971.5,     971.5,       0.0);
     ( 556749.4, 3777533.4,     971.3,     971.3,       0.0);         ( 556769.4,
3777533.4,     971.0,     971.0,       0.0);
     ( 556789.4, 3777533.4,     970.8,     970.8,       0.0);         ( 556809.4,
3777533.4,     969.9,     969.9,       0.0);
     ( 556829.4, 3777533.4,     969.8,     969.8,       0.0);         ( 556849.4,
3777533.4,     969.2,     969.2,       0.0);
     ( 556869.4, 3777533.4,     969.0,     969.0,       0.0);         ( 556889.4,
3777533.4,     968.8,     968.8,       0.0);
     ( 556909.4, 3777533.4,     968.5,     968.5,       0.0);         ( 556929.4,
3777533.4,     968.2,     968.2,       0.0);
     ( 556949.4, 3777533.4,     967.9,     967.9,       0.0);         ( 556969.4,
3777533.4,     967.4,     967.4,       0.0);
     ( 556989.4, 3777533.4,     967.1,     967.1,       0.0);         ( 557009.4,
3777533.4,     966.9,     966.9,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:13:13

                                PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 557029.4, 3777533.4,     966.7,     966.7,       0.0);         ( 557049.4,
3777533.4,     966.5,     966.5,       0.0);
     ( 557069.4, 3777533.4,     966.3,     966.3,       0.0);         ( 557089.4,
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3777533.4,   966.0,   966.0,   0.0);
     (557109.4, 3777533.4,   965.9,   965.9,   0.0);   (557129.4,
3777533.4,   965.9,   965.9,   0.0);
     (557149.4, 3777533.4,   965.9,   965.9,   0.0);   (557169.4,
3777533.4,   965.3,   965.3,   0.0);
     (557189.4, 3777533.4,   964.7,   964.7,   0.0);   (557209.4,
3777533.4,   964.6,   964.6,   0.0);
     (557229.4, 3777533.4,   963.6,   963.6,   0.0);   (557249.4,
3777533.4,   963.5,   963.5,   0.0);
     (557269.4, 3777533.4,   962.9,   962.9,   0.0);   (557289.4,
3777533.4,   962.6,   962.6,   0.0);
     (557309.4, 3777533.4,   962.3,   962.3,   0.0);   (557329.4,
3777533.4,   962.0,   962.0,   0.0);
     (557349.4, 3777533.4,   961.8,   961.8,   0.0);   (557369.4,
3777533.4,   961.4,   961.4,   0.0);
     (557389.4, 3777533.4,   960.9,   960.9,   0.0);   (557409.4,
3777533.4,   960.9,   960.9,   0.0);
     (557429.4, 3777533.4,   960.6,   960.6,   0.0);   (557449.4,
3777533.4,   960.5,   960.5,   0.0);
     (557469.4, 3777533.4,   959.9,   959.9,   0.0);   (557489.4,
3777533.4,   959.5,   959.5,   0.0);
     (556509.4, 3777553.4,   970.2,   970.2,   0.0);   (556529.4,
3777553.4,   970.2,   970.2,   0.0);
     (556549.4, 3777553.4,   970.0,   970.0,   0.0);   (556569.4,
3777553.4,   970.1,   970.1,   0.0);
     (556589.4, 3777553.4,   970.2,   970.2,   0.0);   (556609.4,
3777553.4,   970.1,   970.1,   0.0);
     (556629.4, 3777553.4,   970.2,   970.2,   0.0);   (556649.4,
3777553.4,   970.3,   970.3,   0.0);
     (556669.4, 3777553.4,   970.0,   970.0,   0.0);   (556689.4,
3777553.4,   970.1,   970.1,   0.0);
     (556709.4, 3777553.4,   970.7,   970.7,   0.0);   (556729.4,
3777553.4,   971.0,   971.0,   0.0);
     (556749.4, 3777553.4,   970.5,   970.5,   0.0);   (556769.4,
3777553.4,   970.3,   970.3,   0.0);
     (556789.4, 3777553.4,   970.2,   970.2,   0.0);   (556809.4,
3777553.4,   969.6,   969.6,   0.0);
     (556829.4, 3777553.4,   969.3,   969.3,   0.0);   (556849.4,
3777553.4,   968.8,   968.8,   0.0);
     (556869.4, 3777553.4,   968.5,   968.5,   0.0);   (556889.4,
3777553.4,   968.4,   968.4,   0.0);
     (556909.4, 3777553.4,   968.2,   968.2,   0.0);   (556929.4,
3777553.4,   968.1,   968.1,   0.0);
     (556949.4, 3777553.4,   967.3,   967.3,   0.0);   (556969.4,
3777553.4,   966.9,   966.9,   0.0);
     (556989.4, 3777553.4,   966.4,   966.4,   0.0);   (557009.4,
3777553.4,   966.2,   966.2,   0.0);
     (557029.4, 3777553.4,   965.9,   965.9,   0.0);   (557049.4,
3777553.4,   965.8,   965.8,   0.0);
     (557069.4, 3777553.4,   965.7,   965.7,   0.0);   (557089.4,

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3777553.4,     965.5,     965.5,       0.0);
     ( 557109.4, 3777553.4,     965.2,     965.2,       0.0);         ( 557129.4,
3777553.4,     965.2,     965.2,       0.0);
     ( 557149.4, 3777553.4,     965.2,     965.2,       0.0);         ( 557169.4,
3777553.4,     964.9,     964.9,       0.0);
     ( 557189.4, 3777553.4,     964.5,     964.5,       0.0);         ( 557209.4,
3777553.4,     964.1,     964.1,       0.0);
     ( 557229.4, 3777553.4,     963.5,     963.5,       0.0);         ( 557249.4,
3777553.4,     962.9,     962.9,       0.0);
     ( 557269.4, 3777553.4,     962.5,     962.5,       0.0);         ( 557289.4,
3777553.4,     962.2,     962.2,       0.0);
     ( 557309.4, 3777553.4,     961.9,     961.9,       0.0);         ( 557329.4,
3777553.4,     961.6,     961.6,       0.0);
     ( 557349.4, 3777553.4,     961.4,     961.4,       0.0);         ( 557369.4,
3777553.4,     961.2,     961.2,       0.0);
     ( 557389.4, 3777553.4,     960.6,     960.6,       0.0);         ( 557409.4,
3777553.4,     960.5,     960.5,       0.0);
     ( 557429.4, 3777553.4,     960.2,     960.2,       0.0);         ( 557449.4,
3777553.4,     960.0,     960.0,       0.0);
     ( 557469.4, 3777553.4,     959.7,     959.7,       0.0);         ( 557489.4,
3777553.4,     959.0,     959.0,       0.0);
     ( 557438.9, 3777336.7,     963.4,     963.4,       0.0);         ( 556615.9,
3777137.0,     979.2,     979.2,       0.0);
     ( 556586.4, 3777056.2,     980.5,     981.8,       0.0);         ( 556672.4,
3776929.1,     979.7,     985.3,       0.0);
     ( 556692.4, 3776929.1,     979.9,     979.9,       0.0);         ( 556712.4,
3776929.1,     979.8,     979.8,       0.0);
     ( 556732.4, 3776929.1,     979.7,     979.7,       0.0);         ( 556752.4,
3776929.1,     979.1,     979.1,       0.0);
     ( 556772.4, 3776929.1,     979.3,     979.3,       0.0);         ( 556792.4,
3776929.1,     979.5,     979.5,       0.0);
     ( 556812.4, 3776929.1,     979.1,     979.1,       0.0);         ( 556832.4,
3776929.1,     979.6,     979.6,       0.0);
     ( 556852.4, 3776929.1,     979.6,     979.6,       0.0);         ( 556672.4,
3776949.1,     979.8,     979.8,       0.0);
     ( 556692.4, 3776949.1,     979.9,     979.9,       0.0);         ( 556712.4,
3776949.1,     980.0,     980.0,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       11:13:13

                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)
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     ( 556732.4, 3776949.1,     980.0,     980.0,       0.0);         ( 556752.4,
3776949.1,     979.9,     979.9,       0.0);
     ( 556772.4, 3776949.1,     979.7,     979.7,       0.0);         ( 556792.4,
3776949.1,     979.3,     979.3,       0.0);
     ( 556812.4, 3776949.1,     979.1,     979.1,       0.0);         ( 556832.4,
3776949.1,     979.7,     979.7,       0.0);
     ( 556852.4, 3776949.1,     979.7,     979.7,       0.0);         ( 556672.4,
3776969.1,     979.8,     979.8,       0.0);
     ( 556692.4, 3776969.1,     979.9,     979.9,       0.0);         ( 556712.4,
3776969.1,     980.0,     980.0,       0.0);
     ( 556732.4, 3776969.1,     979.9,     979.9,       0.0);         ( 556752.4,
3776969.1,     979.9,     979.9,       0.0);
     ( 556772.4, 3776969.1,     979.8,     979.8,       0.0);         ( 556792.4,
3776969.1,     979.4,     979.4,       0.0);
     ( 556812.4, 3776969.1,     979.3,     979.3,       0.0);         ( 556832.4,
3776969.1,     979.6,     979.6,       0.0);
     ( 556852.4, 3776969.1,     979.8,     979.8,       0.0);         ( 556672.4,
3776989.1,     979.8,     979.8,       0.0);
     ( 556692.4, 3776989.1,     979.9,     979.9,       0.0);         ( 556712.4,
3776989.1,     980.0,     980.0,       0.0);
     ( 556732.4, 3776989.1,     980.0,     980.0,       0.0);         ( 556752.4,
3776989.1,     979.9,     979.9,       0.0);
     ( 556772.4, 3776989.1,     979.9,     979.9,       0.0);         ( 556792.4,
3776989.1,     979.5,     979.5,       0.0);
     ( 556812.4, 3776989.1,     979.5,     979.5,       0.0);         ( 556832.4,
3776989.1,     979.7,     979.7,       0.0);
     ( 556852.4, 3776989.1,     979.7,     979.7,       0.0);         ( 556672.4,
3777009.1,     979.9,     979.9,       0.0);
     ( 556692.4, 3777009.1,     980.0,     980.0,       0.0);         ( 556712.4,
3777009.1,     979.9,     979.9,       0.0);
     ( 556732.4, 3777009.1,     980.0,     980.0,       0.0);         ( 556752.4,
3777009.1,     979.9,     979.9,       0.0);
     ( 556772.4, 3777009.1,     979.9,     979.9,       0.0);         ( 556792.4,
3777009.1,     979.6,     979.6,       0.0);
     ( 556812.4, 3777009.1,     979.7,     979.7,       0.0);         ( 556832.4,
3777009.1,     979.9,     979.9,       0.0);
     ( 556852.4, 3777009.1,     979.7,     979.7,       0.0);         ( 556672.4,
3777029.1,     979.9,     979.9,       0.0);
     ( 556692.4, 3777029.1,     980.0,     980.0,       0.0);         ( 556712.4,
3777029.1,     979.9,     979.9,       0.0);
     ( 556732.4, 3777029.1,     980.0,     980.0,       0.0);         ( 556752.4,
3777029.1,     979.9,     979.9,       0.0);
     ( 556772.4, 3777029.1,     979.9,     979.9,       0.0);         ( 556792.4,
3777029.1,     979.8,     979.8,       0.0);
     ( 556812.4, 3777029.1,     979.9,     979.9,       0.0);         ( 556832.4,
3777029.1,     979.9,     979.9,       0.0);
     ( 556852.4, 3777029.1,     979.7,     979.7,       0.0);         ( 556672.4,
3777049.1,     979.8,     979.8,       0.0);
     ( 556692.4, 3777049.1,     979.9,     979.9,       0.0);         ( 556712.4,
3777049.1,     979.8,     979.8,       0.0);
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     ( 556732.4, 3777049.1,     979.9,     979.9,       0.0);         ( 556752.4,
3777049.1,     979.9,     979.9,       0.0);
     ( 556772.4, 3777049.1,     979.8,     979.8,       0.0);         ( 556792.4,
3777049.1,     979.9,     979.9,       0.0);
     ( 556812.4, 3777049.1,     979.9,     979.9,       0.0);         ( 556832.4,
3777049.1,     979.9,     979.9,       0.0);
     ( 556852.4, 3777049.1,     979.7,     979.7,       0.0);         ( 556927.5,
3776959.5,     976.9,     976.9,       0.0);
     ( 556947.5, 3776959.5,     976.7,     976.7,       0.0);         ( 556967.5,
3776959.5,     977.3,     977.3,       0.0);
     ( 556987.5, 3776959.5,     977.4,     977.4,       0.0);         ( 557007.5,
3776959.5,     977.5,     977.5,       0.0);
     ( 557027.5, 3776959.5,     977.5,     977.5,       0.0);         ( 557047.5,
3776959.5,     977.5,     977.5,       0.0);
     ( 557067.5, 3776959.5,     977.5,     977.5,       0.0);         ( 557087.5,
3776959.5,     977.5,     977.5,       0.0);
     ( 556927.5, 3776979.5,     977.1,     977.1,       0.0);         ( 556947.5,
3776979.5,     977.0,     977.0,       0.0);
     ( 556967.5, 3776979.5,     977.3,     977.3,       0.0);         ( 556987.5,
3776979.5,     977.4,     977.4,       0.0);
     ( 557007.5, 3776979.5,     977.6,     977.6,       0.0);         ( 557027.5,
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     ( 557047.5, 3776979.5,     977.5,     977.5,       0.0);         ( 557067.5,
3776979.5,     977.6,     977.6,       0.0);
     ( 557087.5, 3776979.5,     977.5,     977.5,       0.0);         ( 556927.5,
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     ( 556947.5, 3776999.5,     977.3,     977.3,       0.0);         ( 556967.5,
3776999.5,     977.4,     977.4,       0.0);
     ( 556987.5, 3776999.5,     977.5,     977.5,       0.0);         ( 557007.5,
3776999.5,     977.6,     977.6,       0.0);
     ( 557027.5, 3776999.5,     977.6,     977.6,       0.0);         ( 557047.5,
3776999.5,     977.5,     977.5,       0.0);
     ( 557067.5, 3776999.5,     977.5,     977.5,       0.0);         ( 557087.5,
3776999.5,     977.5,     977.5,       0.0);
     ( 556927.5, 3777019.5,     977.1,     977.1,       0.0);         ( 556947.5,
3777019.5,     977.3,     977.3,       0.0);
     ( 556967.5, 3777019.5,     977.4,     977.4,       0.0);         ( 556987.5,
3777019.5,     977.5,     977.5,       0.0);
     ( 557007.5, 3777019.5,     977.6,     977.6,       0.0);         ( 557027.5,
3777019.5,     977.6,     977.6,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                              *** DISCRETE CARTESIAN RECEPTORS ***
```

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(557047.5, 3777019.5, 977.5, 977.5, 0.0); (557067.5, 3777019.5, 977.5, 977.5, 0.0);
(557087.5, 3777019.5, 977.5, 977.5, 0.0); (556927.5, 3777039.5, 977.1, 977.1, 0.0);
(556947.5, 3777039.5, 977.3, 977.3, 0.0); (556967.5, 3777039.5, 977.5, 977.5, 0.0);
(556987.5, 3777039.5, 977.6, 977.6, 0.0); (557007.5, 3777039.5, 977.5, 977.5, 0.0);
(557027.5, 3777039.5, 977.5, 977.5, 0.0); (557047.5, 3777039.5, 977.6, 977.6, 0.0);
(557067.5, 3777039.5, 977.5, 977.5, 0.0); (557087.5, 3777039.5, 977.5, 977.5, 0.0);
(557047.5, 3777059.5, 977.3, 977.3, 0.0); (557067.5, 3777059.5, 977.3, 977.3, 0.0);
(557087.5, 3777059.5, 977.2, 977.2, 0.0); (556919.0, 3777174.9, 975.1, 975.1, 0.0);
(556939.0, 3777174.9, 975.1, 975.1, 0.0); (556919.0, 3777194.9, 975.1, 975.1, 0.0);
(556939.0, 3777194.9, 975.0, 975.0, 0.0); (556919.0, 3777214.9, 974.1, 974.8, 0.0);
(556939.0, 3777214.9, 974.8, 974.8, 0.0); (556919.0, 3777234.9, 974.2, 974.2, 0.0);
(556939.0, 3777234.9, 974.6, 974.6, 0.0); (556919.0, 3777254.9, 974.0, 974.6, 0.0);
(556939.0, 3777254.9, 974.3, 974.3, 0.0); (557023.6, 3777171.6, 975.2, 975.2, 0.0);
(557043.6, 3777171.6, 975.3, 975.3, 0.0); (557063.6, 3777171.6, 975.1, 975.1, 0.0);
(557083.6, 3777171.6, 975.1, 975.1, 0.0); (557023.6, 3777191.6, 975.3, 975.3, 0.0);
(557043.6, 3777191.6, 975.0, 975.0, 0.0); (557063.6, 3777191.6, 974.4, 974.4, 0.0);
(557083.6, 3777191.6, 974.3, 974.3, 0.0); (557023.6, 3777211.6, 975.3, 975.3, 0.0);
(557043.6, 3777211.6, 975.1, 975.1, 0.0); (557063.6, 3777211.6, 974.8, 974.8, 0.0);
(557083.6, 3777211.6, 973.3, 975.0, 0.0); (557023.6, 3777231.6, 975.2, 975.2, 0.0);
(557043.6, 3777231.6, 975.2, 975.2, 0.0); (557063.6, 3777231.6, 975.0, 975.0, 0.0);
(557083.6, 3777231.6, 972.3, 975.3, 0.0); (557023.6, 3777251.6, 974.6, 974.6, 0.0);
(557043.6, 3777251.6, 974.6, 974.6, 0.0); (557063.6, 3777251.6, 974.8, 974.8, 0.0);
(557083.6, 3777251.6, 971.2, 975.3, 0.0); (556249.1, 3776972.8, 982.0, 982.0, 0.0);
(556269.1, 3776972.8, 982.3, 982.3, 0.0); (556229.1,

```
3776992.8,     981.3,     981.3,       0.0);
     ( 556249.1, 3776992.8,     981.9,     981.9,       0.0);         ( 556269.1,
3776992.8,     981.9,     981.9,       0.0);
     ( 556289.1, 3776992.8,     982.2,     982.2,       0.0);         ( 556309.1,
3776992.8,     982.3,     982.3,       0.0);
     ( 556329.1, 3776992.8,     982.9,     982.9,       0.0);         ( 556209.1,
3777012.8,     980.4,     980.4,       0.0);
     ( 556229.1, 3777012.8,     981.4,     981.4,       0.0);         ( 556249.1,
3777012.8,     981.6,     981.6,       0.0);
     ( 556269.1, 3777012.8,     981.7,     981.7,       0.0);         ( 556289.1,
3777012.8,     981.7,     981.7,       0.0);
     ( 556309.1, 3777012.8,     982.0,     982.0,       0.0);         ( 556329.1,
3777012.8,     982.1,     982.1,       0.0);
     ( 556209.1, 3777032.8,     980.8,     980.8,       0.0);         ( 556229.1,
3777032.8,     981.2,     981.2,       0.0);
     ( 556249.1, 3777032.8,     981.3,     981.3,       0.0);         ( 556269.1,
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     ( 556289.1, 3777032.8,     981.4,     981.4,       0.0);         ( 556309.1,
3777032.8,     981.5,     981.5,       0.0);
     ( 556209.1, 3777052.8,     980.6,     980.6,       0.0);         ( 556229.1,
3777052.8,     981.0,     981.0,       0.0);
     ( 556249.1, 3777052.8,     980.9,     980.9,       0.0);         ( 556269.1,
3777052.8,     981.1,     981.1,       0.0);
     ( 556289.1, 3777052.8,     981.1,     981.1,       0.0);         ( 556309.1,
3777052.8,     981.1,     981.1,       0.0);
     ( 556249.1, 3777072.8,     980.8,     980.8,       0.0);         ( 556269.1,
3777072.8,     980.7,     980.7,       0.0);
     ( 556289.1, 3777072.8,     980.8,     980.8,       0.0);         ( 556269.1,
3777092.8,     980.5,     980.5,       0.0);
     ( 556441.7, 3776927.5,     985.8,     985.8,       0.0);         ( 556461.7,
3776927.5,     985.7,     985.7,       0.0);
     ( 556481.7, 3776927.5,     986.0,     986.0,       0.0);         ( 556421.7,
3776947.5,     985.0,     985.0,       0.0);
     ( 556441.7, 3776947.5,     985.4,     985.4,       0.0);         ( 556461.7,
3776947.5,     985.2,     985.2,       0.0);
     ( 556481.7, 3776947.5,     985.5,     985.5,       0.0);         ( 556401.7,
3776967.5,     984.3,     984.3,       0.0);
     ( 556421.7, 3776967.5,     984.4,     984.4,       0.0);         ( 556441.7,
3776967.5,     984.9,     984.9,       0.0);
     ( 556461.7, 3776967.5,     985.1,     985.1,       0.0);         ( 556481.7,
3776967.5,     984.9,     984.9,       0.0);
     ( 556401.7, 3776987.5,     983.9,     983.9,       0.0);         ( 556421.7,
3776987.5,     984.2,     984.2,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:13:13

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(556441.7, 3776987.5, 984.2, 984.2, 0.0); (556461.7, 3776987.5, 984.4, 984.4, 0.0);
(556481.7, 3776987.5, 984.3, 984.3, 0.0); (556421.7, 3777007.5, 983.9, 983.9, 0.0);
(556441.7, 3777007.5, 984.1, 984.1, 0.0); (556461.7, 3777007.5, 984.1, 984.1, 0.0);
(556481.7, 3777007.5, 983.9, 983.9, 0.0); (556441.7, 3777027.5, 983.8, 983.8, 0.0);
(556461.7, 3777027.5, 984.0, 984.0, 0.0); (556481.7, 3777027.5, 983.7, 983.7, 0.0);
(556251.2, 3777154.9, 978.9, 978.9, 0.0); (556261.3, 3777141.2, 979.1, 979.1, 0.0);
(556265.0, 3777168.2, 978.9, 978.9, 0.0); (556279.2, 3777151.8, 979.0, 979.0, 0.0);
(556202.6, 3777113.4, 979.3, 979.3, 0.0); (556220.1, 3777109.8, 979.4, 979.4, 0.0);
(556187.5, 3777090.2, 979.1, 979.1, 0.0); (556164.3, 3777121.4, 978.2, 978.2, 0.0);
(557510.3, 3776508.2, 988.3, 988.3, 0.0); (557530.3, 3776508.2, 988.1, 988.1, 0.0);
(557550.3, 3776508.2, 987.9, 987.9, 0.0); (557570.3, 3776508.2, 987.7, 987.7, 0.0);
(557590.3, 3776508.2, 987.6, 987.6, 0.0); (557610.3, 3776508.2, 987.6, 987.6, 0.0);
(557630.3, 3776508.2, 987.5, 987.5, 0.0); (557650.3, 3776508.2, 987.5, 987.5, 0.0);
(557670.3, 3776508.2, 987.3, 987.3, 0.0); (557690.3, 3776508.2, 987.1, 987.1, 0.0);
(557510.3, 3776528.2, 987.7, 987.7, 0.0); (557530.3, 3776528.2, 987.5, 987.5, 0.0);
(557550.3, 3776528.2, 987.3, 987.3, 0.0); (557570.3, 3776528.2, 987.1, 987.1, 0.0);
(557590.3, 3776528.2, 987.0, 987.0, 0.0); (557610.3, 3776528.2, 987.0, 987.0, 0.0);
(557630.3, 3776528.2, 987.0, 987.0, 0.0); (557650.3, 3776528.2, 987.0, 987.0, 0.0);
(557670.3, 3776528.2, 986.8, 986.8, 0.0); (557690.3, 3776528.2, 986.7, 986.7, 0.0);
(557510.3, 3776548.2, 987.0, 987.0, 0.0); (557530.3, 3776548.2, 986.9, 986.9, 0.0);
(557550.3, 3776548.2, 986.6, 986.6, 0.0); (557570.3, 3776548.2, 986.3, 986.3, 0.0);
(557590.3, 3776548.2, 986.3, 986.3, 0.0); (557610.3, 3776548.2, 986.3, 986.3, 0.0);

```
     ( 557630.3, 3776548.2,     986.3,     986.3,       0.0);         ( 557650.3,
3776548.2,     986.3,     986.3,       0.0);
     ( 557670.3, 3776548.2,     986.2,     986.2,       0.0);         ( 557690.3,
3776548.2,     986.2,     986.2,       0.0);
     ( 557510.3, 3776568.2,     986.3,     986.3,       0.0);         ( 557530.3,
3776568.2,     986.2,     986.2,       0.0);
     ( 557550.3, 3776568.2,     985.9,     985.9,       0.0);         ( 557570.3,
3776568.2,     985.7,     985.7,       0.0);
     ( 557590.3, 3776568.2,     985.6,     985.6,       0.0);         ( 557610.3,
3776568.2,     985.5,     985.5,       0.0);
     ( 557630.3, 3776568.2,     985.5,     985.5,       0.0);         ( 557650.3,
3776568.2,     985.6,     985.6,       0.0);
     ( 557670.3, 3776568.2,     985.6,     985.6,       0.0);         ( 557690.3,
3776568.2,     985.5,     985.5,       0.0);
     ( 557510.3, 3776588.2,     985.5,     985.5,       0.0);         ( 557530.3,
3776588.2,     985.5,     985.5,       0.0);
     ( 557550.3, 3776588.2,     985.3,     985.3,       0.0);         ( 557570.3,
3776588.2,     985.0,     985.0,       0.0);
     ( 557590.3, 3776588.2,     984.8,     984.8,       0.0);         ( 557610.3,
3776588.2,     984.8,     984.8,       0.0);
     ( 557630.3, 3776588.2,     984.9,     984.9,       0.0);         ( 557650.3,
3776588.2,     984.9,     984.9,       0.0);
     ( 557670.3, 3776588.2,     985.0,     985.0,       0.0);         ( 557690.3,
3776588.2,     985.0,     985.0,       0.0);
     ( 557510.3, 3776608.2,     984.8,     984.8,       0.0);         ( 557530.3,
3776608.2,     984.8,     984.8,       0.0);
     ( 557550.3, 3776608.2,     984.5,     984.5,       0.0);         ( 557570.3,
3776608.2,     984.3,     984.3,       0.0);
     ( 557590.3, 3776608.2,     984.1,     984.1,       0.0);         ( 557610.3,
3776608.2,     984.1,     984.1,       0.0);
     ( 557630.3, 3776608.2,     984.2,     984.2,       0.0);         ( 557650.3,
3776608.2,     984.2,     984.2,       0.0);
     ( 557670.3, 3776608.2,     984.2,     984.2,       0.0);         ( 557690.3,
3776608.2,     984.2,     984.2,       0.0);
     ( 557510.3, 3776628.2,     984.1,     984.1,       0.0);         ( 557530.3,
3776628.2,     984.0,     984.0,       0.0);
     ( 557550.3, 3776628.2,     983.8,     983.8,       0.0);         ( 557570.3,
3776628.2,     983.8,     983.8,       0.0);
     ( 557590.3, 3776628.2,     983.5,     983.5,       0.0);         ( 557610.3,
3776628.2,     983.4,     983.4,       0.0);
     ( 557630.3, 3776628.2,     983.5,     983.5,       0.0);         ( 557650.3,
3776628.2,     983.6,     983.6,       0.0);
     ( 557670.3, 3776628.2,     983.6,     983.6,       0.0);         ( 557690.3,
3776628.2,     983.6,     983.6,       0.0);
     ( 557510.3, 3776648.2,     983.3,     983.3,       0.0);         ( 557530.3,
3776648.2,     983.2,     983.2,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(557550.3, 3776648.2, 983.0, 983.0, 0.0); (557570.3, 3776648.2, 982.8, 982.8, 0.0);
(557590.3, 3776648.2, 982.8, 982.8, 0.0); (557610.3, 3776648.2, 982.7, 982.7, 0.0);
(557630.3, 3776648.2, 982.8, 982.8, 0.0); (557650.3, 3776648.2, 982.9, 982.9, 0.0);
(557670.3, 3776648.2, 982.9, 982.9, 0.0); (557690.3, 3776648.2, 982.9, 982.9, 0.0);
(557510.3, 3776668.2, 982.5, 982.5, 0.0); (557530.3, 3776668.2, 982.4, 982.4, 0.0);
(557550.3, 3776668.2, 982.2, 982.2, 0.0); (557570.3, 3776668.2, 982.1, 982.1, 0.0);
(557590.3, 3776668.2, 982.2, 982.2, 0.0); (557610.3, 3776668.2, 982.0, 982.0, 0.0);
(557630.3, 3776668.2, 982.0, 982.0, 0.0); (557650.3, 3776668.2, 982.2, 982.2, 0.0);
(557670.3, 3776668.2, 982.2, 982.2, 0.0); (557690.3, 3776668.2, 982.3, 982.3, 0.0);
(557510.3, 3776688.2, 981.8, 981.8, 0.0); (557530.3, 3776688.2, 981.7, 981.7, 0.0);
(557550.3, 3776688.2, 981.5, 981.5, 0.0); (557570.3, 3776688.2, 981.4, 981.4, 0.0);
(557590.3, 3776688.2, 981.3, 981.3, 0.0); (557610.3, 3776688.2, 981.2, 981.2, 0.0);
(557630.3, 3776688.2, 981.3, 981.3, 0.0); (557650.3, 3776688.2, 981.5, 981.5, 0.0);
(557670.3, 3776688.2, 981.5, 981.5, 0.0); (557690.3, 3776688.2, 981.4, 981.4, 0.0);
(556172.5, 3776517.8, 992.8, 992.8, 0.0); (556192.5, 3776517.8, 992.8, 992.8, 0.0);
(556212.5, 3776517.8, 993.4, 993.4, 0.0); (556232.5, 3776517.8, 993.7, 993.7, 0.0);
(556252.5, 3776517.8, 994.0, 994.0, 0.0); (556272.5, 3776517.8, 994.0, 994.0, 0.0);
(556292.5, 3776517.8, 994.0, 994.0, 0.0); (556312.5, 3776517.8, 994.1, 994.1, 0.0);
(556332.5, 3776517.8, 994.1, 994.1, 0.0); (556352.5, 3776517.8, 994.3, 994.3, 0.0);
(556372.5, 3776517.8, 994.9, 994.9, 0.0); (556392.5, 3776517.8, 994.8, 994.8, 0.0);
(556412.5, 3776517.8, 995.0, 995.0, 0.0); (556432.5,

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3776517.8,     995.3,     995.3,       0.0);
     ( 556452.5, 3776517.8,     995.8,     995.8,       0.0);         ( 556472.5,
3776517.8,     995.6,     995.6,       0.0);
     ( 556492.5, 3776517.8,     995.5,     995.5,       0.0);         ( 556172.5,
3776537.8,     992.4,     992.4,       0.0);
     ( 556192.5, 3776537.8,     992.7,     992.7,       0.0);         ( 556212.5,
3776537.8,     992.9,     992.9,       0.0);
     ( 556232.5, 3776537.8,     993.2,     993.2,       0.0);         ( 556252.5,
3776537.8,     993.6,     993.6,       0.0);
     ( 556272.5, 3776537.8,     993.9,     993.9,       0.0);         ( 556292.5,
3776537.8,     993.7,     993.7,       0.0);
     ( 556312.5, 3776537.8,     993.8,     993.8,       0.0);         ( 556332.5,
3776537.8,     993.6,     993.6,       0.0);
     ( 556352.5, 3776537.8,     993.8,     993.8,       0.0);         ( 556372.5,
3776537.8,     994.3,     994.3,       0.0);
     ( 556392.5, 3776537.8,     994.8,     994.8,       0.0);         ( 556412.5,
3776537.8,     994.8,     994.8,       0.0);
     ( 556432.5, 3776537.8,     994.9,     994.9,       0.0);         ( 556452.5,
3776537.8,     995.4,     995.4,       0.0);
     ( 556472.5, 3776537.8,     995.2,     995.2,       0.0);         ( 556492.5,
3776537.8,     995.0,     995.0,       0.0);
     ( 556332.5, 3776557.8,     993.1,     993.1,       0.0);         ( 556352.5,
3776557.8,     993.6,     993.6,       0.0);
     ( 556372.5, 3776557.8,     993.6,     993.6,       0.0);         ( 556392.5,
3776557.8,     994.1,     994.1,       0.0);
     ( 556412.5, 3776557.8,     994.1,     994.1,       0.0);         ( 556432.5,
3776557.8,     994.4,     994.4,       0.0);
     ( 556452.5, 3776557.8,     994.8,     994.8,       0.0);         ( 556472.5,
3776557.8,     994.8,     994.8,       0.0);
     ( 556492.5, 3776557.8,     994.6,     994.6,       0.0);         ( 556332.5,
3776577.8,     992.8,     992.8,       0.0);
     ( 556352.5, 3776577.8,     992.9,     992.9,       0.0);         ( 556372.5,
3776577.8,     993.1,     993.1,       0.0);
     ( 556392.5, 3776577.8,     993.2,     993.2,       0.0);         ( 556412.5,
3776577.8,     993.4,     993.4,       0.0);
     ( 556432.5, 3776577.8,     993.8,     993.8,       0.0);         ( 556452.5,
3776577.8,     994.1,     994.1,       0.0);
     ( 556472.5, 3776577.8,     994.2,     994.2,       0.0);         ( 556492.5,
3776577.8,     994.2,     994.2,       0.0);
     ( 556332.5, 3776597.8,     992.2,     992.2,       0.0);         ( 556352.5,
3776597.8,     992.3,     992.3,       0.0);
     ( 556372.5, 3776597.8,     992.6,     992.6,       0.0);         ( 556392.5,
3776597.8,     993.0,     993.0,       0.0);
     ( 556412.5, 3776597.8,     992.9,     992.9,       0.0);         ( 556432.5,
3776597.8,     993.3,     993.3,       0.0);
     ( 556452.5, 3776597.8,     993.8,     993.8,       0.0);         ( 556472.5,
3776597.8,     994.0,     994.0,       0.0);
     ( 556492.5, 3776597.8,     993.7,     993.7,       0.0);         ( 556252.5,
3776617.8,     990.9,     990.9,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

     (556272.5, 3776617.8,   991.3,   991.3,   0.0);   (556292.5,
3776617.8,   991.5,   991.5,   0.0);
     (556312.5, 3776617.8,   991.5,   991.5,   0.0);   (556332.5,
3776617.8,   992.0,   992.0,   0.0);
     (556352.5, 3776617.8,   991.8,   991.8,   0.0);   (556372.5,
3776617.8,   991.8,   991.8,   0.0);
     (556392.5, 3776617.8,   992.2,   992.2,   0.0);   (556412.5,
3776617.8,   992.2,   992.2,   0.0);
     (556432.5, 3776617.8,   992.7,   992.7,   0.0);   (556452.5,
3776617.8,   992.9,   992.9,   0.0);
     (556472.5, 3776617.8,   993.6,   993.6,   0.0);   (556492.5,
3776617.8,   993.3,   993.3,   0.0);
     (556252.5, 3776637.8,   990.4,   990.4,   0.0);   (556272.5,
3776637.8,   990.3,   991.2,   0.0);
     (556292.5, 3776637.8,   990.9,   990.9,   0.0);   (556312.5,
3776637.8,   991.2,   991.2,   0.0);
     (556332.5, 3776637.8,   991.1,   991.1,   0.0);   (556352.5,
3776637.8,   991.4,   991.4,   0.0);
     (556372.5, 3776637.8,   991.3,   991.3,   0.0);   (556392.5,
3776637.8,   991.7,   991.7,   0.0);
     (556412.5, 3776637.8,   991.9,   991.9,   0.0);   (556432.5,
3776637.8,   992.1,   992.1,   0.0);
     (556452.5, 3776637.8,   992.5,   992.5,   0.0);   (556472.5,
3776637.8,   992.8,   992.8,   0.0);
     (556492.5, 3776637.8,   992.9,   992.9,   0.0);   (556252.5,
3776657.8,   989.7,   989.7,   0.0);
     (556272.5, 3776657.8,   989.8,   989.8,   0.0);   (556292.5,
3776657.8,   989.9,   989.9,   0.0);
     (556312.5, 3776657.8,   990.8,   990.8,   0.0);   (556332.5,
3776657.8,   990.6,   990.6,   0.0);
     (556352.5, 3776657.8,   990.6,   990.6,   0.0);   (556372.5,
3776657.8,   990.7,   990.7,   0.0);
     (556392.5, 3776657.8,   991.3,   991.3,   0.0);   (556412.5,
3776657.8,   991.5,   991.5,   0.0);
     (556432.5, 3776657.8,   991.8,   991.8,   0.0);   (556452.5,
3776657.8,   992.0,   992.0,   0.0);
     (556472.5, 3776657.8,   992.3,   992.3,   0.0);   (556492.5,
3776657.8,   992.4,   992.4,   0.0);

```
     ( 556252.5, 3776677.8,     989.1,     989.1,       0.0);         ( 556272.5,
3776677.8,     989.7,     989.7,       0.0);
     ( 556292.5, 3776677.8,     989.8,     989.8,       0.0);         ( 556312.5,
3776677.8,     989.9,     989.9,       0.0);
     ( 556332.5, 3776677.8,     990.0,     990.0,       0.0);         ( 556352.5,
3776677.8,     990.0,     990.0,       0.0);
     ( 556372.5, 3776677.8,     990.3,     990.3,       0.0);         ( 556392.5,
3776677.8,     990.8,     990.8,       0.0);
     ( 556412.5, 3776677.8,     990.8,     990.8,       0.0);         ( 556432.5,
3776677.8,     991.4,     991.4,       0.0);
     ( 556452.5, 3776677.8,     991.7,     991.7,       0.0);         ( 556472.5,
3776677.8,     991.8,     991.8,       0.0);
     ( 556492.5, 3776677.8,     991.9,     991.9,       0.0);         ( 556252.5,
3776697.8,     988.5,     988.5,       0.0);
     ( 556272.5, 3776697.8,     989.0,     989.0,       0.0);         ( 556372.5,
3776697.8,     989.8,     989.8,       0.0);
     ( 556392.5, 3776697.8,     990.5,     990.5,       0.0);         ( 556412.5,
3776697.8,     990.5,     990.5,       0.0);
     ( 556432.5, 3776697.8,     990.9,     990.9,       0.0);         ( 556452.5,
3776697.8,     991.3,     991.3,       0.0);
     ( 556472.5, 3776697.8,     991.4,     991.4,       0.0);         ( 556492.5,
3776697.8,     991.4,     991.4,       0.0);
     ( 556252.5, 3776717.8,     988.6,     988.6,       0.0);         ( 556272.5,
3776717.8,     988.6,     988.6,       0.0);
     ( 556372.5, 3776717.8,     989.2,     989.2,       0.0);         ( 556392.5,
3776717.8,     990.0,     990.0,       0.0);
     ( 556412.5, 3776717.8,     990.1,     990.1,       0.0);         ( 556432.5,
3776717.8,     990.5,     990.5,       0.0);
     ( 556452.5, 3776717.8,     990.9,     990.9,       0.0);         ( 556472.5,
3776717.8,     990.6,     990.6,       0.0);
     ( 556492.5, 3776717.8,     991.0,     991.0,       0.0);         ( 556267.4,
3776875.8,     984.3,     984.3,       0.0);
     ( 556239.0, 3776853.0,     985.0,     985.0,       0.0);         ( 556178.8,
3776751.2,     986.0,     986.0,       0.0);
     ( 556154.5, 3776774.5,     986.0,     986.0,       0.0);         ( 556119.5,
3776705.1,     986.9,     986.9,       0.0);
     ( 556146.5, 3777267.9,     975.8,     975.8,       0.0);         ( 556151.0,
3777234.9,     976.6,     976.6,       0.0);
     ( 556144.9, 3777179.6,     977.1,     977.1,       0.0);         ( 556205.2,
3777236.5,     976.5,     976.5,       0.0);
     ( 556218.0, 3777200.0,     977.6,     977.6,       0.0);         ( 556774.4,
3777347.6,     973.9,     973.9,       0.0);
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\kpsp_sfc_pfl\KPSP_V11_trimmed.sfc
Met Version: 22112
Profile file: ..\kpsp_sfc_pfl\KPSP_V11_trimmed.pfl

Surface format: FREE

Profile format: FREE

Surface station no.: 93138 Upper air station no.: 3190
Name: 33.63 Name: UNKNOWN

Year: 2018 Year: 2018

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
18	01	01	1	01	-14.0	0.169	-9.000	-9.000	-999.	440.	31.3	0.20	3.95	1.00	1.76	251.	10.1	283.1	2.0
18	01	01	1	02	-29.9	0.302	-9.000	-9.000	-999.	400.	100.6	0.42	3.95	1.00	2.36	318.	10.1	283.8	2.0
18	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	283.1	2.0
18	01	01	1	04	-23.9	0.242	-9.000	-9.000	-999.	286.	64.5	0.05	3.95	1.00	3.36	343.	10.1	284.2	2.0
18	01	01	1	05	-22.2	0.222	-9.000	-9.000	-999.	251.	54.3	0.42	3.95	1.00	1.76	313.	10.1	281.4	2.0
18	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	282.0	2.0
18	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	282.0	2.0
18	01	01	1	08	-10.1	0.158	-9.000	-9.000	-999.	151.	34.8	0.15	3.95	0.51	1.76	999.	10.1	284.2	2.0
18	01	01	1	09	49.7	-9.000	-9.000	-9.000	112.	-999.	-99999.0	0.15	3.95	0.31	0.00	0.	10.1	288.1	2.0
18	01	01	1	10	126.4	-9.000	-9.000	-9.000	210.	-999.	-99999.0	0.15	3.95	0.24	0.00	0.	10.1	292.0	2.0
18	01	01	1	11	179.4	0.238	1.188	0.010	336.	279.	-6.8	0.15	3.95	0.22	1.76	999.	10.1	295.3	2.0
18	01	01	1	12	204.5	-9.000	-9.000	-9.000	506.	-999.	-99999.0	0.15	3.95	0.21	0.00	0.	10.1	297.5	2.0
18	01	01	1	13	199.1	-9.000	-9.000	-9.000	674.	-999.	-99999.0	0.15	3.95	0.21	0.00	0.	10.1	297.0	2.0
18	01	01	1	14	166.1	0.306	1.531	0.006	774.	406.	-15.4	0.05	3.95	0.23	3.36	119.	10.1	297.0	2.0
18	01	01	1	15	106.1	0.177	1.363	0.006	855.	189.	-4.7	0.04	3.95	0.26	1.76	132.	10.1	296.4	2.0
18	01	01	1	16	25.4	-9.000	-9.000	-9.000	876.	-999.	-99999.0	0.15	3.95	0.36	0.00	0.	10.1	295.9	2.0
18	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	0.66	0.00	0.	10.1	294.8	2.0
18	01	01	1	18	-16.2	0.186	-9.000	-9.000	-999.	193.	38.1	0.27	3.95	1.00	1.76	237.	10.1	293.1	2.0
18	01	01	1	19	-14.9	0.167	-9.000	-9.000	-999.	164.	30.6	0.05	3.95	1.00	2.36	334.	10.1	290.9	2.0

```
 18 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.15   3.95
1.00    0.00    0.   10.1  288.8    2.0
 18 01 01   1 21  -23.6  0.242 -9.000 -9.000 -999.  286.     64.5  0.05   3.95
1.00    3.36  330.   10.1  288.1    2.0
 18 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.15   3.95
1.00    0.00    0.   10.1  286.4    2.0
 18 01 01   1 23  -20.0  0.205 -9.000 -9.000 -999.  222.     46.0  0.05   3.95
1.00    2.86  330.   10.1  288.1    2.0
 18 01 01   1 24  -49.4  0.505 -9.000 -9.000 -999.  862.    280.9  0.42   3.95
1.00    3.86  310.   10.1  287.5    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 18 01 01 01   10.1 1  251.    1.76   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         556521.71    3777341.57        0.75146                      556539.90
3777344.94        0.80241
         556591.78    3777345.39        1.01552                      556630.62
3777349.66        1.14151
         556684.29    3777349.43        1.32561                      556905.58
3777351.19        1.13509
         556920.93    3777350.82        1.05574                      556942.87
3777350.09        0.93926
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         556996.26    3777348.26        0.68677                    557096.81
3777357.77        0.37935
         557115.83    3777363.62        0.33850                    557129.36
3777361.43        0.32497
         557230.65    3777363.99        0.22527                    556466.22
3776816.07        0.09095
         556407.87    3776826.19        0.08175                    556381.07
3776807.14        0.07235
         556404.29    3776771.52        0.06771                    556465.21
3776739.51        0.07062
         556396.10    3776739.93        0.06039                    556323.99
3777265.43        0.26912
         556330.60    3777233.99        0.24869                    556321.08
3777200.43        0.21075
         556275.11    3777267.81        0.21641                    556278.28
3777233.46        0.19563
         556509.40    3777373.38        0.61949                    556529.40
3777373.38        0.67148
         556549.40    3777373.38        0.72774                    556569.40
3777373.38        0.78473
         556589.40    3777373.38        0.83694                    556609.40
3777373.38        0.88126
         556629.40    3777373.38        0.91971                    556649.40
3777373.38        0.96032
         556669.40    3777373.38        1.00782                    556689.40
3777373.38        1.05571
         556709.40    3777373.38        1.08910                    556729.40
3777373.38        1.10049
         556749.40    3777373.38        1.09706                    556769.40
3777373.38        1.08863
         556789.40    3777373.38        1.07711                    556809.40
3777373.38        1.06346
         556829.40    3777373.38        1.04907                    556849.40
3777373.38        1.02986
         556869.40    3777373.38        0.99834                    556889.40
3777373.38        0.95069
         556909.40    3777373.38        0.88749                    556929.40
3777373.38        0.81416
         556949.40    3777373.38        0.73758                    556969.40
3777373.38        0.66338
         556989.40    3777373.38        0.59524                    557009.40
3777373.38        0.53447
         557029.40    3777373.38        0.48081                    557049.40
3777373.38        0.43374
         557069.40    3777373.38        0.39299                    557089.40
3777373.38        0.35822
         557109.40    3777373.38        0.32879                    557129.40
3777373.38        0.30387
         557149.40    3777373.38        0.28249                    557169.40
3777373.38        0.26381
```

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         557189.40    3777373.38        0.24716                      557209.40
3777373.38        0.23190
         557229.40    3777373.38        0.21767                      557249.40
3777373.38        0.20433
         557269.40    3777373.38        0.19176                      557289.40
3777373.38        0.18006
         557309.40    3777373.38        0.16910                      557329.40
3777373.38        0.15864
         557349.40    3777373.38        0.14896                      557369.40
3777373.38        0.13979
         557389.40    3777373.38        0.13121                      557409.40
3777373.38        0.12319
         557429.40    3777373.38        0.11565                      557449.40
3777373.38        0.10874
         557469.40    3777373.38        0.10228                      557489.40
3777373.38        0.09617
         556509.40    3777393.38        0.56852                      556529.40
3777393.38        0.61172
         556549.40    3777393.38        0.65349                      556569.40
3777393.38        0.68986
         556589.40    3777393.38        0.71887                      556609.40
3777393.38        0.74380
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777393.38        0.77135                      556649.40
3777393.38        0.80673
         556669.40    3777393.38        0.84523                      556689.40
```

```
3777393.38        0.87504
         556709.40    3777393.38        0.88788                    556729.40
3777393.38        0.88692
         556749.40    3777393.38        0.88096                    556769.40
3777393.38        0.87378
         556789.40    3777393.38        0.86436                    556809.40
3777393.38        0.85356
         556829.40    3777393.38        0.84329                    556849.40
3777393.38        0.83066
         556869.40    3777393.38        0.80959                    556889.40
3777393.38        0.77729
         556909.40    3777393.38        0.73427                    556929.40
3777393.38        0.68273
         556949.40    3777393.38        0.62670                    556969.40
3777393.38        0.57050
         556989.40    3777393.38        0.51744                    557009.40
3777393.38        0.46922
         557029.40    3777393.38        0.42586                    557049.40
3777393.38        0.38697
         557069.40    3777393.38        0.35234                    557089.40
3777393.38        0.32195
         557109.40    3777393.38        0.29572                    557129.40
3777393.38        0.27327
         557149.40    3777393.38        0.25423                    557169.40
3777393.38        0.23783
         557189.40    3777393.38        0.22353                    557209.40
3777393.38        0.21084
         557229.40    3777393.38        0.19923                    557249.40
3777393.38        0.18833
         557269.40    3777393.38        0.17813                    557289.40
3777393.38        0.16847
         557309.40    3777393.38        0.15923                    557329.40
3777393.38        0.15068
         557349.40    3777393.38        0.14248                    557369.40
3777393.38        0.13470
         557389.40    3777393.38        0.12731                    557409.40
3777393.38        0.12021
         557429.40    3777393.38        0.11352                    557449.40
3777393.38        0.10725
         557469.40    3777393.38        0.10126                    557489.40
3777393.38        0.09556
         556509.40    3777413.38        0.52058                    556529.40
3777413.38        0.55143
         556549.40    3777413.38        0.57675                    556569.40
3777413.38        0.59594
         556589.40    3777413.38        0.61226                    556609.40
3777413.38        0.63167
         556629.40    3777413.38        0.65831                    556649.40
3777413.38        0.68970
         556669.40    3777413.38        0.71636                    556689.40
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3777413.38        0.73008
         556709.40    3777413.38        0.73118                        556729.40
3777413.38        0.72659
         556749.40    3777413.38        0.72156                        556769.40
3777413.38        0.71559
         556789.40    3777413.38        0.70757                        556809.40
3777413.38        0.69875
         556829.40    3777413.38        0.69138                        556849.40
3777413.38        0.68283
         556869.40    3777413.38        0.66817                        556889.40
3777413.38        0.64564
         556909.40    3777413.38        0.61554                        556929.40
3777413.38        0.57886
         556949.40    3777413.38        0.53755                        556969.40
3777413.38        0.49448
         556989.40    3777413.38        0.45258                        557009.40
3777413.38        0.41383
         557029.40    3777413.38        0.37865                        557049.40
3777413.38        0.34674
         557069.40    3777413.38        0.31773                        557089.40
3777413.38        0.29158
         557109.40    3777413.38        0.26837                        557129.40
3777413.38        0.24802
         557149.40    3777413.38        0.23057                        557169.40
3777413.38        0.21557
         557189.40    3777413.38        0.20272                        557209.40
3777413.38        0.19158
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
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         557189.40    3777433.38        0.18500                      557209.40
3777433.38        0.17472
         557229.40    3777433.38        0.16573                      557249.40
3777433.38        0.15785
         557269.40    3777433.38        0.15068                      557289.40
3777433.38        0.14399
         557309.40    3777433.38        0.13779                      557329.40
3777433.38        0.13178
         557349.40    3777433.38        0.12596                      557369.40
3777433.38        0.12052
         557389.40    3777433.38        0.11546                      557409.40
3777433.38        0.11049
         557429.40    3777433.38        0.10549                      557449.40
3777433.38        0.10082
         557469.40    3777433.38        0.09629                      557489.40
3777433.38        0.09191
         556509.40    3777453.38        0.41788                      556529.40
3777453.38        0.42620
         556549.40    3777453.38        0.43342                      556569.40
3777453.38        0.44361
         556589.40    3777453.38        0.45957                      556609.40
3777453.38        0.48067
         556629.40    3777453.38        0.50173                      556649.40
3777453.38        0.51595
         556669.40    3777453.38        0.52044                      556689.40
3777453.38        0.51819
         556709.40    3777453.38        0.51400                      556729.40
3777453.38        0.51060
         556749.40    3777453.38        0.50768                      556769.40
3777453.38        0.50328
         556789.40    3777453.38        0.49697                      556809.40
3777453.38        0.49101
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556829.40	3777453.38	0.48702	556849.40	3777453.38	0.48310
556869.40	3777453.38	0.47556	556889.40	3777453.38	0.46339
556909.40	3777453.38	0.44727	556929.40	3777453.38	0.42785
556949.40	3777453.38	0.40503	556969.40	3777453.38	0.37944
556989.40	3777453.38	0.35271	557009.40	3777453.38	0.32673
557029.40	3777453.38	0.30269	557049.40	3777453.38	0.28078
557069.40	3777453.38	0.26068	557089.40	3777453.38	0.24204
557109.40	3777453.38	0.22477	557129.40	3777453.38	0.20886
557149.40	3777453.38	0.19444	557169.40	3777453.38	0.18151
557189.40	3777453.38	0.17022	557209.40	3777453.38	0.16047
557229.40	3777453.38	0.15202	557249.40	3777453.38	0.14477
557269.40	3777453.38	0.13835	557289.40	3777453.38	0.13256
557309.40	3777453.38	0.12726	557329.40	3777453.38	0.12224
557349.40	3777453.38	0.11747	557369.40	3777453.38	0.11278
557389.40	3777453.38	0.10840	557409.40	3777453.38	0.10428
557429.40	3777453.38	0.10020	557449.40	3777453.38	0.09625
557469.40	3777453.38	0.09240	557489.40	3777453.38	0.08861
556509.40	3777473.38	0.36637	556529.40	3777473.38	0.37127
556549.40	3777473.38	0.37883	556569.40	3777473.38	0.39139
556589.40	3777473.38	0.40882	556609.40	3777473.38	0.42727
556629.40	3777473.38	0.44116	556649.40	3777473.38	0.44705
556669.40	3777473.38	0.44611	556689.40		

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3777473.38        0.44240
         556709.40    3777473.38        0.43896                        556729.40
3777473.38        0.43657
         556749.40    3777473.38        0.43425                        556769.40
3777473.38        0.43014
         556789.40    3777473.38        0.42442                        556809.40
3777473.38        0.41945
         556829.40    3777473.38        0.41658                        556849.40
3777473.38        0.41390
         556869.40    3777473.38        0.40838                        556889.40
3777473.38        0.39909
         556909.40    3777473.38        0.38677                        556929.40
3777473.38        0.37222
         556949.40    3777473.38        0.35516                        556969.40
3777473.38        0.33548
         556989.40    3777473.38        0.31412                        557009.40
3777473.38        0.29267
         557029.40    3777473.38        0.27240                        557049.40
3777473.38        0.25384
         557069.40    3777473.38        0.23689                        557089.40
3777473.38        0.22116
         557109.40    3777473.38        0.20648                        557129.40
3777473.38        0.19275
         557149.40    3777473.38        0.18004                        557169.40
3777473.38        0.16836
         557189.40    3777473.38        0.15786                        557209.40
3777473.38        0.14857
         557229.40    3777473.38        0.14047                        557249.40
3777473.38        0.13352
         557269.40    3777473.38        0.12748                        557289.40
3777473.38        0.12220
         557309.40    3777473.38        0.11749                        557329.40
3777473.38        0.11318
         557349.40    3777473.38        0.10911                        557369.40
3777473.38        0.10523
         557389.40    3777473.38        0.10147                        557409.40
3777473.38        0.09791
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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L0000006 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557429.40	3777473.38	0.09440	557449.40	3777473.38	0.09114
557469.40	3777473.38	0.08788	557489.40	3777473.38	0.08470
556509.40	3777493.38	0.32113	556529.40	3777493.38	0.32680
556549.40	3777493.38	0.33687	556569.40	3777493.38	0.35130
556589.40	3777493.38	0.36738	556609.40	3777493.38	0.38069
556629.40	3777493.38	0.38744	556649.40	3777493.38	0.38789
556669.40	3777493.38	0.38502	556689.40	3777493.38	0.38157
556709.40	3777493.38	0.37903	556729.40	3777493.38	0.37737
556749.40	3777493.38	0.37536	556769.40	3777493.38	0.37141
556789.40	3777493.38	0.36620	556809.40	3777493.38	0.36209
556829.40	3777493.38	0.36002	556849.40	3777493.38	0.35829
556869.40	3777493.38	0.35420	556889.40	3777493.38	0.34695
556909.40	3777493.38	0.33729	556929.40	3777493.38	0.32613
556949.40	3777493.38	0.31325	556969.40	3777493.38	0.29815
556989.40	3777493.38	0.28116	557009.40	3777493.38	0.26344
557029.40	3777493.38	0.24624	557049.40	3777493.38	0.23033
557069.40	3777493.38	0.21581	557089.40	3777493.38	0.20240
557109.40	3777493.38	0.18991	557129.40	3777493.38	0.17814
557149.40	3777493.38	0.16709	557169.40	3777493.38	0.15676

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         557189.40    3777493.38        0.14720                      557209.40
3777493.38        0.13855
         557229.40    3777493.38        0.13081                      557249.40
3777493.38        0.12404
         557269.40    3777493.38        0.11818                      557289.40
3777493.38        0.11312
         557309.40    3777493.38        0.10870                      557329.40
3777493.38        0.10479
         557349.40    3777493.38        0.10124                      557369.40
3777493.38        0.09791
         557389.40    3777493.38        0.09475                      557409.40
3777493.38        0.09170
         557429.40    3777493.38        0.08865                      557449.40
3777493.38        0.08581
         557469.40    3777493.38        0.08309                      557489.40
3777493.38        0.08039
         556509.40    3777513.38        0.28461                      556529.40
3777513.38        0.29269
         556549.40    3777513.38        0.30469                      556569.40
3777513.38        0.31884
         556589.40    3777513.38        0.33134                      556609.40
3777513.38        0.33865
         556629.40    3777513.38        0.34040                      556649.40
3777513.38        0.33826
         556669.40    3777513.38        0.33505                      556689.40
3777513.38        0.33227
         556709.40    3777513.38        0.33052                      556729.40
3777513.38        0.32937
         556749.40    3777513.38        0.32745                      556769.40
3777513.38        0.32357
         556789.40    3777513.38        0.31882                      556809.40
3777513.38        0.31544
         556829.40    3777513.38        0.31401                      556849.40
3777513.38        0.31294
         556869.40    3777513.38        0.30991                      556889.40
3777513.38        0.30418
         556909.40    3777513.38        0.29646                      556929.40
3777513.38        0.28765
         556949.40    3777513.38        0.27778                      556969.40
3777513.38        0.26622
         556989.40    3777513.38        0.25278                      557009.40
3777513.38        0.23819
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557029.40	3777513.38	0.22357	557049.40	3777513.38	0.20980
557069.40	3777513.38	0.19719	557089.40	3777513.38	0.18563
557109.40	3777513.38	0.17489	557129.40	3777513.38	0.16478
557149.40	3777513.38	0.15524	557169.40	3777513.38	0.14621
557189.40	3777513.38	0.13771	557209.40	3777513.38	0.12984
557229.40	3777513.38	0.12260	557249.40	3777513.38	0.11612
557269.40	3777513.38	0.11038	557289.40	3777513.38	0.10538
557309.40	3777513.38	0.10108	557329.40	3777513.38	0.09735
557349.40	3777513.38	0.09406	557369.40	3777513.38	0.09107
557389.40	3777513.38	0.08833	557409.40	3777513.38	0.08573
557429.40	3777513.38	0.08316	557449.40	3777513.38	0.08069
557469.40	3777513.38	0.07830	557489.40	3777513.38	0.07599
556509.40	3777533.38	0.25645	556529.40	3777533.38	0.26646
556549.40	3777533.38	0.27869	556569.40	3777533.38	0.29026
556589.40	3777533.38	0.29799	556609.40	3777533.38	0.30064
556629.40	3777533.38	0.29944	556649.40	3777533.38	0.29669
556669.40	3777533.38	0.29392	556689.40		

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3777533.38        0.29188
         556709.40    3777533.38        0.29076                    556729.40
3777533.38        0.28993
         556749.40    3777533.38        0.28795                    556769.40
3777533.38        0.28415
         556789.40    3777533.38        0.27984                    556809.40
3777533.38        0.27706
         556829.40    3777533.38        0.27610                    556849.40
3777533.38        0.27552
         556869.40    3777533.38        0.27329                    556889.40
3777533.38        0.26871
         556909.40    3777533.38        0.26242                    556929.40
3777533.38        0.25531
         556949.40    3777533.38        0.24760                    556969.40
3777533.38        0.23870
         556989.40    3777533.38        0.22815                    557009.40
3777533.38        0.21622
         557029.40    3777533.38        0.20380                    557049.40
3777533.38        0.19183
         557069.40    3777533.38        0.18078                    557089.40
3777533.38        0.17068
         557109.40    3777533.38        0.16134                    557129.40
3777533.38        0.15260
         557149.40    3777533.38        0.14434                    557169.40
3777533.38        0.13647
         557189.40    3777533.38        0.12901                    557209.40
3777533.38        0.12199
         557229.40    3777533.38        0.11537                    557249.40
3777533.38        0.10930
         557269.40    3777533.38        0.10379                    557289.40
3777533.38        0.09889
         557309.40    3777533.38        0.09461                    557329.40
3777533.38        0.09091
         557349.40    3777533.38        0.08770                    557369.40
3777533.38        0.08488
         557389.40    3777533.38        0.08235                    557409.40
3777533.38        0.08007
         557429.40    3777533.38        0.07789                    557449.40
3777533.38        0.07579
         557469.40    3777533.38        0.07371                    557489.40
3777533.38        0.07168
         556509.40    3777553.38        0.23478                    556529.40
3777553.38        0.24539
         556549.40    3777553.38        0.25598                    556569.40
3777553.38        0.26387
         556589.40    3777553.38        0.26736                    556609.40
3777553.38        0.26692
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                             *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         556629.40   3777553.38   0.26467   556649.40
3777553.38   0.26212
         556669.40   3777553.38   0.25987   556689.40
3777553.38   0.25842
         556709.40   3777553.38   0.25779   556729.40
3777553.38   0.25710
         556749.40   3777553.38   0.25501   556769.40
3777553.38   0.25131
         556789.40   3777553.38   0.24744   556809.40
3777553.38   0.24516
         556829.40   3777553.38   0.24458   556849.40
3777553.38   0.24431
         556869.40   3777553.38   0.24267   556889.40
3777553.38   0.23902
         556909.40   3777553.38   0.23382   556929.40
3777553.38   0.22795
         556949.40   3777553.38   0.22178   556969.40
3777553.38   0.21487
         556989.40   3777553.38   0.20661   557009.40
3777553.38   0.19696
         557029.40   3777553.38   0.18647   557049.40
3777553.38   0.17605
         557069.40   3777553.38   0.16628   557089.40
3777553.38   0.15735
         557109.40   3777553.38   0.14914   557129.40
3777553.38   0.14151
         557149.40   3777553.38   0.13430   557169.40
3777553.38   0.12745

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        557189.40    3777553.38        0.12092                    557209.40
3777553.38        0.11471
        557229.40    3777553.38        0.10880                    557249.40
3777553.38        0.10324
        557269.40    3777553.38        0.09808                    557289.40
3777553.38        0.09338
        557309.40    3777553.38        0.08916                    557329.40
3777553.38        0.08545
        557349.40    3777553.38        0.08223                    557369.40
3777553.38        0.07944
        557389.40    3777553.38        0.07700                    557409.40
3777553.38        0.07486
        557429.40    3777553.38        0.07291                    557449.40
3777553.38        0.07109
        557469.40    3777553.38        0.06933                    557489.40
3777553.38        0.06756
        557438.91    3777336.71        0.11328                    556615.91
3777136.99        0.98317
        556586.37    3777056.16        0.43865                    556672.35
3776929.14        0.39908
        556692.35    3776929.14        0.45380                    556712.35
3776929.14        0.51204
        556732.35    3776929.14        0.56738                    556752.35
3776929.14        0.62934
        556772.35    3776929.14        0.69302                    556792.35
3776929.14        0.76885
        556812.35    3776929.14        0.86030                    556832.35
3776929.14        0.93929
        556852.35    3776929.14        1.03061                    556672.35
3776949.14        0.43851
        556692.35    3776949.14        0.50411                    556712.35
3776949.14        0.57669
        556732.35    3776949.14        0.65026                    556752.35
3776949.14        0.72395
        556772.35    3776949.14        0.80998                    556792.35
3776949.14        0.91418
        556812.35    3776949.14        1.02725                    556832.35
3776949.14        1.13024
        556852.35    3776949.14        1.25169                    556672.35
3776969.14        0.48593
        556692.35    3776969.14        0.56251                    556712.35
3776969.14        0.65353
        556732.35    3776969.14        0.75162                    556752.35
3776969.14        0.85164
        556772.35    3776969.14        0.96327                    556792.35
3776969.14        1.09733
        556812.35    3776969.14        1.24077                    556832.35
3776969.14        1.38780
        556852.35    3776969.14        1.55222                    556672.35
3776989.14        0.54542
```

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
3777029.14        2.12977
         556812.35    3777029.14        2.52168                   556832.35
3777029.14        2.96702
         556852.35    3777029.14        3.47727                   556672.35
3777049.14        0.82363
         556692.35    3777049.14        0.97817                   556712.35
3777049.14        1.18350
         556732.35    3777049.14        1.45419                   556752.35
3777049.14        1.81121
         556772.35    3777049.14        2.25252                   556792.35
3777049.14        2.79101
         556812.35    3777049.14        3.42043                   556832.35
3777049.14        4.12549
         556852.35    3777049.14        4.87732                   556927.54
3776959.53        1.96845
         556947.54    3776959.53        1.87563                   556967.54
3776959.53        1.64549
         556987.54    3776959.53        1.36113                   557007.54
3776959.53        1.11102
         557027.54    3776959.53        0.92847                   557047.54
3776959.53        0.79684
         557067.54    3776959.53        0.69246                   557087.54
3776959.53        0.60347
         556927.54    3776979.53        2.33733                   556947.54
3776979.53        2.11452
         556967.54    3776979.53        1.76508                   556987.54
3776979.53        1.42030
         557007.54    3776979.53        1.15867                   557027.54
3776979.53        0.97417
         557047.54    3776979.53        0.83439                   557067.54
3776979.53        0.71911
         557087.54    3776979.53        0.62081                   556927.54
3776999.53        2.74810
         556947.54    3776999.53        2.34369                   556967.54
3776999.53        1.87304
         556987.54    3776999.53        1.48800                   557007.54
3776999.53        1.21934
         557027.54    3776999.53        1.02551                   557047.54
3776999.53        0.87160
         557067.54    3776999.53        0.74364                   557087.54
3776999.53        0.63665
         556927.54    3777019.53        3.18477                   556947.54
3777019.53        2.55666
         556967.54    3777019.53        1.98251                   556987.54
3777019.53        1.57335
         557007.54    3777019.53        1.29169                   557027.54
3777019.53        1.07901
         557047.54    3777019.53        0.90739                   557067.54
3777019.53        0.76682
         557087.54    3777019.53        0.65196                   556927.54
```

3777039.53   3.63072
         556947.54   3777039.53   2.76391   556967.54
3777039.53   2.11258
         556987.54   3777039.53   1.67971   557007.54
3777039.53   1.37137
         557027.54   3777039.53   1.13261   557047.54
3777039.53   0.94205

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         557067.54   3777039.53   0.78957   557087.54
3777039.53   0.66767
         557047.54   3777059.53   0.97673   557067.54
3777059.53   0.81308
         557087.54   3777059.53   0.68455   556919.02
3777174.93   10.42138
         556939.02   3777174.93   6.05233   556919.02
3777194.93   8.96896
         556939.02   3777194.93   5.59437   556919.02
3777214.93   6.81649
         556939.02   3777214.93   4.65612   556919.02
3777234.93   4.97725
         556939.02   3777234.93   3.65330   556919.02
3777254.93   3.60799
         556939.02   3777254.93   2.80576   557023.57
3777171.57   1.45318
         557043.57   3777171.57   1.14965   557063.57
3777171.57   0.93144

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        557083.57    3777171.57        0.76923                    557023.57
3777191.57        1.45233
        557043.57    3777191.57        1.15385                    557063.57
3777191.57        0.93755
        557083.57    3777191.57        0.77593                    557023.57
3777211.57        1.41686
        557043.57    3777211.57        1.13654                    557063.57
3777211.57        0.92924
        557083.57    3777211.57        0.77240                    557023.57
3777231.57        1.33216
        557043.57    3777231.57        1.08898                    557063.57
3777231.57        0.90223
        557083.57    3777231.57        0.75608                    557023.57
3777251.57        1.20079
        557043.57    3777251.57        1.00689                    557063.57
3777251.57        0.85136
        557083.57    3777251.57        0.72342                    556249.05
3776972.85        0.07660
        556269.05    3776972.85        0.08054                    556229.05
3776992.85        0.07854
        556249.05    3776992.85        0.08210                    556269.05
3776992.85        0.08649
        556289.05    3776992.85        0.09109                    556309.05
3776992.85        0.09631
        556329.05    3776992.85        0.10129                    556209.05
3777012.85        0.08113
        556229.05    3777012.85        0.08458                    556249.05
3777012.85        0.08885
        556269.05    3777012.85        0.09362                    556289.05
3777012.85        0.09887
        556309.05    3777012.85        0.10426                    556329.05
3777012.85        0.11069
        556209.05    3777032.85        0.08660                    556229.05
3777032.85        0.09107
        556249.05    3777032.85        0.09601                    556269.05
3777032.85        0.10141
        556289.05    3777032.85        0.10746                    556309.05
3777032.85        0.11384
        556209.05    3777052.85        0.09228                    556229.05
3777052.85        0.09732
        556249.05    3777052.85        0.10317                    556269.05
3777052.85        0.10938
        556289.05    3777052.85        0.11621                    556309.05
3777052.85        0.12371
        556249.05    3777072.85        0.11009                    556269.05
3777072.85        0.11726
        556289.05    3777072.85        0.12500                    556269.05
3777092.85        0.12543
        556441.69    3776927.49        0.12395                    556461.69
3776927.49        0.13434
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         556481.69    3776927.49        0.14460                       556421.69
3776947.49        0.12105
         556441.69    3776947.49        0.13056                       556461.69
3776947.49        0.14239
         556481.69    3776947.49        0.15449                       556401.69
3776967.49        0.11819
         556421.69    3776967.49        0.12787                       556441.69
3776967.49        0.13784
         556461.69    3776967.49        0.14997                       556481.69
3776967.49        0.16458
         556401.69    3776987.49        0.12562                       556421.69
3776987.49        0.13525
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556441.69    3776987.49        0.14694                       556461.69
3776987.49        0.15999
         556481.69    3776987.49        0.17581                       556421.69
3777007.49        0.14484
         556441.69    3777007.49        0.15656                       556461.69
3777007.49        0.17072
         556481.69    3777007.49        0.18816                       556441.69
3777027.49        0.16977
         556461.69    3777027.49        0.18408                       556481.69
3777027.49        0.20288
         556251.24    3777154.95        0.14114                       556261.28
3777141.20        0.14204
         556264.98    3777168.16        0.15258                       556279.25
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3777151.77        0.15554
         556202.60    3777113.45        0.10904                    556220.05
3777109.75        0.11387
         556187.53    3777090.19        0.09784                    556164.27
3777121.38        0.09986
         557510.26    3776508.23        0.09070                    557530.26
3776508.23        0.08564
         557550.26    3776508.23        0.08070                    557570.26
3776508.23        0.07596
         557590.26    3776508.23        0.07152                    557610.26
3776508.23        0.06740
         557630.26    3776508.23        0.06355                    557650.26
3776508.23        0.06003
         557670.26    3776508.23        0.05678                    557690.26
3776508.23        0.05380
         557510.26    3776528.23        0.09031                    557530.26
3776528.23        0.08495
         557550.26    3776528.23        0.07985                    557570.26
3776528.23        0.07499
         557590.26    3776528.23        0.07054                    557610.26
3776528.23        0.06644
         557630.26    3776528.23        0.06269                    557650.26
3776528.23        0.05928
         557670.26    3776528.23        0.05611                    557690.26
3776528.23        0.05326
         557510.26    3776548.23        0.08947                    557530.26
3776548.23        0.08401
         557550.26    3776548.23        0.07871                    557570.26
3776548.23        0.07383
         557590.26    3776548.23        0.06946                    557610.26
3776548.23        0.06543
         557630.26    3776548.23        0.06178                    557650.26
3776548.23        0.05850
         557670.26    3776548.23        0.05546                    557690.26
3776548.23        0.05273
         557510.26    3776568.23        0.08836                    557530.26
3776568.23        0.08279
         557550.26    3776568.23        0.07751                    557570.26
3776568.23        0.07264
         557590.26    3776568.23        0.06832                    557610.26
3776568.23        0.06438
         557630.26    3776568.23        0.06084                    557650.26
3776568.23        0.05771
         557670.26    3776568.23        0.05476                    557690.26
3776568.23        0.05207
         557510.26    3776588.23        0.08697                    557530.26
3776588.23        0.08145
         557550.26    3776588.23        0.07621                    557570.26
3776588.23        0.07134
         557590.26    3776588.23        0.06703                    557610.26
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3776588.23        0.06320
         557630.26    3776588.23        0.05987                       557650.26
3776588.23        0.05682
         557670.26    3776588.23        0.05401                       557690.26
3776588.23        0.05146
         557510.26    3776608.23        0.08536                       557530.26
3776608.23        0.07991
         557550.26    3776608.23        0.07471                       557570.26
3776608.23        0.06997
         557590.26    3776608.23        0.06566                       557610.26
3776608.23        0.06194
         557630.26    3776608.23        0.05875                       557650.26
3776608.23        0.05579
         557670.26    3776608.23        0.05306                       557690.26
3776608.23        0.05055
         557510.26    3776628.23        0.08355                       557530.26
3776628.23        0.07813
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557550.26    3776628.23        0.07294                       557570.26
3776628.23        0.06866
         557590.26    3776628.23        0.06418                       557610.26
3776628.23        0.06057
         557630.26    3776628.23        0.05743                       557650.26
3776628.23        0.05471
         557670.26    3776628.23        0.05209                       557690.26
3776628.23        0.04974
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        557510.26    3776648.23        0.08138                    557530.26
3776648.23        0.07589
        557550.26    3776648.23        0.07078                    557570.26
3776648.23        0.06610
        557590.26    3776648.23        0.06236                    557610.26
3776648.23        0.05884
        557630.26    3776648.23        0.05597                    557650.26
3776648.23        0.05348
        557670.26    3776648.23        0.05098                    557690.26
3776648.23        0.04880
        557510.26    3776668.23        0.07853                    557530.26
3776668.23        0.07335
        557550.26    3776668.23        0.06864                    557570.26
3776668.23        0.06449
        557590.26    3776668.23        0.06105                    557610.26
3776668.23        0.05770
        557630.26    3776668.23        0.05487                    557650.26
3776668.23        0.05242
        557670.26    3776668.23        0.05014                    557690.26
3776668.23        0.04805
        557510.26    3776688.23        0.07697                    557530.26
3776688.23        0.07208
        557550.26    3776688.23        0.06781                    557570.26
3776688.23        0.06404
        557590.26    3776688.23        0.06064                    557610.26
3776688.23        0.05761
        557630.26    3776688.23        0.05486                    557650.26
3776688.23        0.05236
        557670.26    3776688.23        0.05011                    557690.26
3776688.23        0.04807
        556172.49    3776517.81        0.02519                    556192.49
3776517.81        0.02583
        556212.49    3776517.81        0.02641                    556232.49
3776517.81        0.02711
        556252.49    3776517.81        0.02787                    556272.49
3776517.81        0.02876
        556292.49    3776517.81        0.02969                    556312.49
3776517.81        0.03070
        556332.49    3776517.81        0.03197                    556352.49
3776517.81        0.03356
        556372.49    3776517.81        0.03571                    556392.49
3776517.81        0.03897
        556412.49    3776517.81        0.04262                    556432.49
3776517.81        0.04587
        556452.49    3776517.81        0.04806                    556472.49
3776517.81        0.04976
        556492.49    3776517.81        0.05140                    556172.49
3776537.81        0.02618
        556192.49    3776537.81        0.02678                    556212.49
3776537.81        0.02744
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         556232.49    3776537.81        0.02815                      556252.49
3776537.81        0.02893
         556272.49    3776537.81        0.02976                      556292.49
3776537.81        0.03079
         556312.49    3776537.81        0.03185                      556332.49
3776537.81        0.03307
         556352.49    3776537.81        0.03450                      556372.49
3776537.81        0.03637
         556392.49    3776537.81        0.03903                      556412.49
3776537.81        0.04276
         556432.49    3776537.81        0.04667                      556452.49
3776537.81        0.04971
         556472.49    3776537.81        0.05211                      556492.49
3776537.81        0.05396
         556332.49    3776557.81        0.03438                      556352.49
3776557.81        0.03565
         556372.49    3776557.81        0.03739                      556392.49
3776557.81        0.03971
         556412.49    3776557.81        0.04316                      556432.49
3776557.81        0.04722
         556452.49    3776557.81        0.05106                      556472.49
3776557.81        0.05424
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556492.49    3776557.81        0.05667                      556332.49
3776577.81        0.03572
         556352.49    3776577.81        0.03711                      556372.49
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3776577.81        0.03869
         556392.49    3776577.81        0.04080                   556412.49
3776577.81        0.04381
         556432.49    3776577.81        0.04768                   556452.49
3776577.81        0.05214
         556472.49    3776577.81        0.05626                   556492.49
3776577.81        0.05937
         556332.49    3776597.81        0.03732                   556352.49
3776597.81        0.03870
         556372.49    3776597.81        0.04025                   556392.49
3776597.81        0.04205
         556412.49    3776597.81        0.04476                   556432.49
3776597.81        0.04829
         556452.49    3776597.81        0.05271                   556472.49
3776597.81        0.05753
         556492.49    3776597.81        0.06186                   556252.49
3776617.81        0.03440
         556272.49    3776617.81        0.03533                   556292.49
3776617.81        0.03641
         556312.49    3776617.81        0.03765                   556332.49
3776617.81        0.03888
         556352.49    3776617.81        0.04046                   556372.49
3776617.81        0.04211
         556392.49    3776617.81        0.04388                   556412.49
3776617.81        0.04624
         556432.49    3776617.81        0.04930                   556452.49
3776617.81        0.05369
         556472.49    3776617.81        0.05861                   556492.49
3776617.81        0.06395
         556252.49    3776637.81        0.03608                   556272.49
3776637.81        0.03720
         556292.49    3776637.81        0.03819                   556312.49
3776637.81        0.03937
         556332.49    3776637.81        0.04083                   556352.49
3776637.81        0.04233
         556372.49    3776637.81        0.04410                   556392.49
3776637.81        0.04586
         556412.49    3776637.81        0.04804                   556432.49
3776637.81        0.05082
         556452.49    3776637.81        0.05465                   556472.49
3776637.81        0.05981
         556492.49    3776637.81        0.06564                   556252.49
3776657.81        0.03794
         556272.49    3776657.81        0.03909                   556292.49
3776657.81        0.04028
         556312.49    3776657.81        0.04130                   556332.49
3776657.81        0.04287
         556352.49    3776657.81        0.04450                   556372.49
3776657.81        0.04630
         556392.49    3776657.81        0.04805                   556412.49
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3776657.81        0.05018
         556432.49    3776657.81        0.05275                       556452.49
3776657.81        0.05620
         556472.49    3776657.81        0.06096                       556492.49
3776657.81        0.06708
         556252.49    3776677.81        0.03992                       556272.49
3776677.81        0.04098
         556292.49    3776677.81        0.04225                       556312.49
3776677.81        0.04362
         556332.49    3776677.81        0.04513                       556352.49
3776677.81        0.04684
         556372.49    3776677.81        0.04864                       556392.49
3776677.81        0.05052
         556412.49    3776677.81        0.05281                       556432.49
3776677.81        0.05518
         556452.49    3776677.81        0.05828                       556472.49
3776677.81        0.06264
         556492.49    3776677.81        0.06856                       556252.49
3776697.81        0.04201
         556272.49    3776697.81        0.04320                       556372.49
3776697.81        0.05129
         556392.49    3776697.81        0.05313                       556412.49
3776697.81        0.05552
         556432.49    3776697.81        0.05802                       556452.49
3776697.81        0.06094
         556472.49    3776697.81        0.06490                       556492.49
3776697.81        0.07040
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
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 - - -
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 - - -
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         556989.40    3777373.38        1.05777                       557009.40
3777373.38        0.88342
         557029.40    3777373.38        0.74749                       557049.40
3777373.38        0.64061
         557069.40    3777373.38        0.55491                       557089.40
3777373.38        0.48518
         557109.40    3777373.38        0.42756                       557129.40
3777373.38        0.37940
         557149.40    3777373.38        0.33872                       557169.40
3777373.38        0.30413
         557189.40    3777373.38        0.27456                       557209.40
3777373.38        0.24896
         557229.40    3777373.38        0.22662                       557249.40
3777373.38        0.20704
         557269.40    3777373.38        0.18981                       557289.40
3777373.38        0.17469
         557309.40    3777373.38        0.16133                       557329.40
3777373.38        0.14930
         557349.40    3777373.38        0.13868                       557369.40
3777373.38        0.12909
         557389.40    3777373.38        0.12047                       557409.40
3777373.38        0.11269
         557429.40    3777373.38        0.10560                       557449.40
3777373.38        0.09923
         557469.40    3777373.38        0.09339                       557489.40
3777373.38        0.08797
         556509.40    3777393.38        0.74905                       556529.40
3777393.38        0.80154
         556549.40    3777393.38        0.85405                       556569.40
3777393.38        0.90668
         556589.40    3777393.38        0.95935                       556609.40
3777393.38        1.01343
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
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,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556629.40	3777393.38	1.06873	556649.40	3777393.38	1.12680
556669.40	3777393.38	1.18648	556689.40	3777393.38	1.24753
556709.40	3777393.38	1.30873	556729.40	3777393.38	1.37145
556749.40	3777393.38	1.43262	556769.40	3777393.38	1.49515
556789.40	3777393.38	1.55272	556809.40	3777393.38	1.59461
556829.40	3777393.38	1.61507	556849.40	3777393.38	1.60724
556869.40	3777393.38	1.56623	556889.40	3777393.38	1.49406
556909.40	3777393.38	1.39588	556929.40	3777393.38	1.27375
556949.40	3777393.38	1.13328	556969.40	3777393.38	0.98649
556989.40	3777393.38	0.84840	557009.40	3777393.38	0.72926
557029.40	3777393.38	0.63122	557049.40	3777393.38	0.55151
557069.40	3777393.38	0.48617	557089.40	3777393.38	0.43183
557109.40	3777393.38	0.38603	557129.40	3777393.38	0.34672
557149.40	3777393.38	0.31310	557169.40	3777393.38	0.28377
557189.40	3777393.38	0.25821	557209.40	3777393.38	0.23597
557229.40	3777393.38	0.21631	557249.40	3777393.38	0.19876
557269.40	3777393.38	0.18322	557289.40	3777393.38	0.16934
557309.40	3777393.38	0.15682	557329.40	3777393.38	0.14580
557349.40	3777393.38	0.13580	557369.40	3777393.38	0.12679

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         557389.40    3777393.38        0.11863                      557409.40
3777393.38        0.11116
         557429.40    3777393.38        0.10440                      557449.40
3777393.38        0.09827
         557469.40    3777393.38        0.09260                      557489.40
3777393.38        0.08735
         556509.40    3777413.38        0.66907                      556529.40
3777413.38        0.70995
         556549.40    3777413.38        0.75056                      556569.40
3777413.38        0.79113
         556589.40    3777413.38        0.83202                      556609.40
3777413.38        0.87353
         556629.40    3777413.38        0.91569                      556649.40
3777413.38        0.95922
         556669.40    3777413.38        1.00305                      556689.40
3777413.38        1.04688
         556709.40    3777413.38        1.08967                      556729.40
3777413.38        1.13078
         556749.40    3777413.38        1.16916                      556769.40
3777413.38        1.20036
         556789.40    3777413.38        1.22486                      556809.40
3777413.38        1.23492
         556829.40    3777413.38        1.22956                      556849.40
3777413.38        1.20661
         556869.40    3777413.38        1.16640                      556889.40
3777413.38        1.11262
         556909.40    3777413.38        1.04684                      556929.40
3777413.38        0.96921
         556949.40    3777413.38        0.88144                      556969.40
3777413.38        0.78753
         556989.40    3777413.38        0.69508                      557009.40
3777413.38        0.61083
         557029.40    3777413.38        0.53803                      557049.40
3777413.38        0.47687
         557069.40    3777413.38        0.42575                      557089.40
3777413.38        0.38268
         557109.40    3777413.38        0.34602                      557129.40
3777413.38        0.31414
         557149.40    3777413.38        0.28662                      557169.40
3777413.38        0.26217
         557189.40    3777413.38        0.24065                      557209.40
3777413.38        0.22158
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***

INCLUDING SOURCE(S): L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557229.40	3777413.38	0.20443	557249.40	3777413.38	0.18908
557269.40	3777413.38	0.17530	557289.40	3777413.38	0.16286
557309.40	3777413.38	0.15161	557329.40	3777413.38	0.14137
557349.40	3777413.38	0.13222	557369.40	3777413.38	0.12375
557389.40	3777413.38	0.11616	557409.40	3777413.38	0.10920
557429.40	3777413.38	0.10270	557449.40	3777413.38	0.09686
557469.40	3777413.38	0.09152	557489.40	3777413.38	0.08651
556509.40	3777433.38	0.59810	556529.40	3777433.38	0.63009
556549.40	3777433.38	0.66178	556569.40	3777433.38	0.69337
556589.40	3777433.38	0.72488	556609.40	3777433.38	0.75656
556629.40	3777433.38	0.78845	556649.40	3777433.38	0.82055
556669.40	3777433.38	0.85241	556689.40	3777433.38	0.88292
556709.40	3777433.38	0.91180	556729.40	3777433.38	0.93716
556749.40	3777433.38	0.95900	556769.40	3777433.38	0.97314

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        556789.40    3777433.38        0.98052                    556809.40
3777433.38        0.97731
        556829.40    3777433.38        0.96343                    556849.40
3777433.38        0.93927
        556869.40    3777433.38        0.90587                    556889.40
3777433.38        0.86573
        556909.40    3777433.38        0.81945                    556929.40
3777433.38        0.76678
        556949.40    3777433.38        0.70774                    556969.40
3777433.38        0.64416
        556989.40    3777433.38        0.57969                    557009.40
3777433.38        0.51858
        557029.40    3777433.38        0.46347                    557049.40
3777433.38        0.41558
        557069.40    3777433.38        0.37460                    557089.40
3777433.38        0.33964
        557109.40    3777433.38        0.30967                    557129.40
3777433.38        0.28357
        557149.40    3777433.38        0.26082                    557169.40
3777433.38        0.24049
        557189.40    3777433.38        0.22250                    557209.40
3777433.38        0.20636
        557229.40    3777433.38        0.19163                    557249.40
3777433.38        0.17846
        557269.40    3777433.38        0.16640                    557289.40
3777433.38        0.15536
        557309.40    3777433.38        0.14543                    557329.40
3777433.38        0.13620
        557349.40    3777433.38        0.12768                    557369.40
3777433.38        0.12001
        557389.40    3777433.38        0.11313                    557409.40
3777433.38        0.10669
        557429.40    3777433.38        0.10058                    557449.40
3777433.38        0.09508
        557469.40    3777433.38        0.09000                    557489.40
3777433.38        0.08529
        556509.40    3777453.38        0.53513                    556529.40
3777453.38        0.56022
        556549.40    3777453.38        0.58498                    556569.40
3777453.38        0.60953
        556589.40    3777453.38        0.63389                    556609.40
3777453.38        0.65807
        556629.40    3777453.38        0.68191                    556649.40
3777453.38        0.70541
        556669.40    3777453.38        0.72809                    556689.40
3777453.38        0.74905
        556709.40    3777453.38        0.76771                    556729.40
3777453.38        0.78257
        556749.40    3777453.38        0.79324                    556769.40
3777453.38        0.79856
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         556789.40    3777453.38        0.79742                      556809.40
3777453.38        0.78919
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                  L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                  L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                  L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556829.40    3777453.38        0.77367                      556849.40
3777453.38        0.75216
         556869.40    3777453.38        0.72557                      556889.40
3777453.38        0.69553
         556909.40    3777453.38        0.66173                      556929.40
3777453.38        0.62408
         556949.40    3777453.38        0.58231                      556969.40
3777453.38        0.53726
         556989.40    3777453.38        0.49078                      557009.40
3777453.38        0.44531
         557029.40    3777453.38        0.40298                      557049.40
3777453.38        0.36500
         557069.40    3777453.38        0.33172                      557089.40
3777453.38        0.30283
         557109.40    3777453.38        0.27782                      557129.40
3777453.38        0.25600
         557149.40    3777453.38        0.23691                      557169.40
3777453.38        0.21982
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         557189.40    3777453.38        0.20467                    557209.40
3777453.38        0.19107
         557229.40    3777453.38        0.17856                    557249.40
3777453.38        0.16730
         557269.40    3777453.38        0.15687                    557289.40
3777453.38        0.14727
         557309.40    3777453.38        0.13851                    557329.40
3777453.38        0.13037
         557349.40    3777453.38        0.12287                    557369.40
3777453.38        0.11581
         557389.40    3777453.38        0.10942                    557409.40
3777453.38        0.10360
         557429.40    3777453.38        0.09808                    557449.40
3777453.38        0.09296
         557469.40    3777453.38        0.08818                    557489.40
3777453.38        0.08370
         556509.40    3777473.38        0.47936                    556529.40
3777473.38        0.49910
         556549.40    3777473.38        0.51852                    556569.40
3777473.38        0.53760
         556589.40    3777473.38        0.55634                    556609.40
3777473.38        0.57463
         556629.40    3777473.38        0.59234                    556649.40
3777473.38        0.60921
         556669.40    3777473.38        0.62492                    556689.40
3777473.38        0.63883
         556709.40    3777473.38        0.65021                    556729.40
3777473.38        0.65842
         556749.40    3777473.38        0.66308                    556769.40
3777473.38        0.66319
         556789.40    3777473.38        0.65868                    556809.40
3777473.38        0.64899
         556829.40    3777473.38        0.63461                    556849.40
3777473.38        0.61644
         556869.40    3777473.38        0.59549                    556889.40
3777473.38        0.57251
         556909.40    3777473.38        0.54707                    556929.40
3777473.38        0.51910
         556949.40    3777473.38        0.48841                    556969.40
3777473.38        0.45534
         556989.40    3777473.38        0.42084                    557009.40
3777473.38        0.38639
         557029.40    3777473.38        0.35342                    557049.40
3777473.38        0.32300
         557069.40    3777473.38        0.29571                    557089.40
3777473.38        0.27154
         557109.40    3777473.38        0.25036                    557129.40
3777473.38        0.23174
         557149.40    3777473.38        0.21543                    557169.40
3777473.38        0.20086
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         557189.40    3777473.38        0.18793                       557209.40
3777473.38        0.17630
         557229.40    3777473.38        0.16568                       557249.40
3777473.38        0.15605
         557269.40    3777473.38        0.14708                       557289.40
3777473.38        0.13880
         557309.40    3777473.38        0.13116                       557329.40
3777473.38        0.12407
         557349.40    3777473.38        0.11741                       557369.40
3777473.38        0.11123
         557389.40    3777473.38        0.10541                       557409.40
3777473.38        0.10008
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  66
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                  L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                  L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                  L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557429.40    3777473.38        0.09502                       557449.40
3777473.38        0.09041
         557469.40    3777473.38        0.08600                       557489.40
3777473.38        0.08186
         556509.40    3777493.38        0.43011                       556529.40
3777493.38        0.44569
         556549.40    3777493.38        0.46093                       556569.40
3777493.38        0.47576
```

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        556589.40    3777493.38        0.49008                    556609.40
3777493.38        0.50373
        556629.40    3777493.38        0.51663                    556649.40
3777493.38        0.52852
        556669.40    3777493.38        0.53904                    556689.40
3777493.38        0.54790
        556709.40    3777493.38        0.55458                    556729.40
3777493.38        0.55852
        556749.40    3777493.38        0.55979                    556769.40
3777493.38        0.55745
        556789.40    3777493.38        0.55166                    556809.40
3777493.38        0.54227
        556829.40    3777493.38        0.52968                    556849.40
3777493.38        0.51486
        556869.40    3777493.38        0.49827                    556889.40
3777493.38        0.48030
        556909.40    3777493.38        0.46070                    556929.40
3777493.38        0.43935
        556949.40    3777493.38        0.41609                    556969.40
3777493.38        0.39108
        556989.40    3777493.38        0.36484                    557009.40
3777493.38        0.33825
        557029.40    3777493.38        0.31224                    557049.40
3777493.38        0.28770
        557069.40    3777493.38        0.26517                    557089.40
3777493.38        0.24483
        557109.40    3777493.38        0.22675                    557129.40
3777493.38        0.21068
        557149.40    3777493.38        0.19649                    557169.40
3777493.38        0.18388
        557189.40    3777493.38        0.17259                    557209.40
3777493.38        0.16254
        557229.40    3777493.38        0.15338                    557249.40
3777493.38        0.14503
        557269.40    3777493.38        0.13737                    557289.40
3777493.38        0.13024
        557309.40    3777493.38        0.12358                    557329.40
3777493.38        0.11739
        557349.40    3777493.38        0.11160                    557369.40
3777493.38        0.10615
        557389.40    3777493.38        0.10106                    557409.40
3777493.38        0.09626
        557429.40    3777493.38        0.09162                    557449.40
3777493.38        0.08741
        557469.40    3777493.38        0.08347                    557489.40
3777493.38        0.07969
        556509.40    3777513.38        0.38667                    556529.40
3777513.38        0.39900
        556549.40    3777513.38        0.41092                    556569.40
3777513.38        0.42233
```

```
         556589.40    3777513.38        0.43311                      556609.40
3777513.38        0.44313
         556629.40    3777513.38        0.45227                      556649.40
3777513.38        0.46043
         556669.40    3777513.38        0.46739                      556689.40
3777513.38        0.47292
         556709.40    3777513.38        0.47657                      556729.40
3777513.38        0.47799
         556749.40    3777513.38        0.47728                      556769.40
3777513.38        0.47377
         556789.40    3777513.38        0.46775                      556809.40
3777513.38        0.45930
         556829.40    3777513.38        0.44872                      556849.40
3777513.38        0.43667
         556869.40    3777513.38        0.42343                      556889.40
3777513.38        0.40918
         556909.40    3777513.38        0.39381                      556929.40
3777513.38        0.37713
         556949.40    3777513.38        0.35908                      556969.40
3777513.38        0.33971
         556989.40    3777513.38        0.31932                      557009.40
3777513.38        0.29844
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
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```
         556989.40    3777533.38        0.28181                      557009.40
3777533.38        0.26517
         557029.40    3777533.38        0.24842                      557049.40
3777533.38        0.23206
         557069.40    3777533.38        0.21647                      557089.40
3777533.38        0.20192
         557109.40    3777533.38        0.18857                      557129.40
3777533.38        0.17644
         557149.40    3777533.38        0.16549                      557169.40
3777533.38        0.15561
         557189.40    3777533.38        0.14673                      557209.40
3777533.38        0.13882
         557229.40    3777533.38        0.13160                      557249.40
3777533.38        0.12516
         557269.40    3777533.38        0.11924                      557289.40
3777533.38        0.11382
         557309.40    3777533.38        0.10880                      557329.40
3777533.38        0.10412
         557349.40    3777533.38        0.09972                      557369.40
3777533.38        0.09553
         557389.40    3777533.38        0.09153                      557409.40
3777533.38        0.08783
         557429.40    3777533.38        0.08425                      557449.40
3777533.38        0.08087
         557469.40    3777533.38        0.07759                      557489.40
3777533.38        0.07449
         556509.40    3777553.38        0.31454                      556529.40
3777553.38        0.32213
         556549.40    3777553.38        0.32919                      556569.40
3777553.38        0.33568
         556589.40    3777553.38        0.34149                      556609.40
3777553.38        0.34661
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
```

,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556629.40	3777553.38	0.35105	556649.40	3777553.38	0.35477
556669.40	3777553.38	0.35763	556689.40	3777553.38	0.35945
556709.40	3777553.38	0.35996	556729.40	3777553.38	0.35900
556749.40	3777553.38	0.35661	556769.40	3777553.38	0.35270
556789.40	3777553.38	0.34743	556809.40	3777553.38	0.34110
556829.40	3777553.38	0.33381	556849.40	3777553.38	0.32578
556869.40	3777553.38	0.31711	556889.40	3777553.38	0.30784
556909.40	3777553.38	0.29792	556929.40	3777553.38	0.28724
556949.40	3777553.38	0.27577	556969.40	3777553.38	0.26349
556989.40	3777553.38	0.25052	557009.40	3777553.38	0.23708
557029.40	3777553.38	0.22342	557049.40	3777553.38	0.20992
557069.40	3777553.38	0.19686	557089.40	3777553.38	0.18449
557109.40	3777553.38	0.17298	557129.40	3777553.38	0.16240
557149.40	3777553.38	0.15274	557169.40	3777553.38	0.14395
557189.40	3777553.38	0.13599	557209.40	3777553.38	0.12881
557229.40	3777553.38	0.12232	557249.40	3777553.38	0.11645
557269.40	3777553.38	0.11115	557289.40	3777553.38	0.10632
557309.40	3777553.38	0.10186	557329.40	3777553.38	0.09773
557349.40	3777553.38	0.09388	557369.40	3777553.38	0.09025

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         557389.40    3777553.38        0.08675                      557409.40
3777553.38        0.08347
         557429.40    3777553.38        0.08032                      557449.40
3777553.38        0.07733
         557469.40    3777553.38        0.07445                      557489.40
3777553.38        0.07163
         557438.91    3777336.71        0.10350                      556615.91
3777136.99        4.72716
         556586.37    3777056.16        0.91183                      556672.35
3776929.14        0.54995
         556692.35    3776929.14        0.60671                      556712.35
3776929.14        0.66848
         556732.35    3776929.14        0.72721                      556752.35
3776929.14        0.77909
         556772.35    3776929.14        0.80757                      556792.35
3776929.14        0.81906
         556812.35    3776929.14        0.81882                      556832.35
3776929.14        0.80251
         556852.35    3776929.14        0.78229                      556672.35
3776949.14        0.64209
         556692.35    3776949.14        0.71340                      556712.35
3776949.14        0.78774
         556732.35    3776949.14        0.85566                      556752.35
3776949.14        0.90578
         556772.35    3776949.14        0.93358                      556792.35
3776949.14        0.94004
         556812.35    3776949.14        0.92732                      556832.35
3776949.14        0.90110
         556852.35    3776949.14        0.87264                      556672.35
3776969.14        0.76096
         556692.35    3776969.14        0.85150                      556712.35
3776969.14        0.94405
         556732.35    3776969.14        1.02251                      556752.35
3776969.14        1.07170
         556772.35    3776969.14        1.08827                      556792.35
3776969.14        1.08008
         556812.35    3776969.14        1.05283                      556832.35
3776969.14        1.01774
         556852.35    3776969.14        0.98042                      556672.35
3776989.14        0.91847
         556692.35    3776989.14        1.03488                      556712.35
3776989.14        1.14921
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***

INCLUDING SOURCE(S): L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , L0000055 , L0000056 , L0000057 , L0000058 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556732.35	3776989.14	1.23584	556752.35	3776989.14	1.27745
556772.35	3776989.14	1.27527	556792.35	3776989.14	1.24757
556812.35	3776989.14	1.20301	556832.35	3776989.14	1.15529
556852.35	3776989.14	1.10976	556672.35	3777009.14	1.13139
556692.35	3777009.14	1.28576	556712.35	3777009.14	1.42489
556732.35	3777009.14	1.51172	556752.35	3777009.14	1.53347
556772.35	3777009.14	1.50356	556792.35	3777009.14	1.45049
556812.35	3777009.14	1.38520	556832.35	3777009.14	1.32298
556852.35	3777009.14	1.26678	556672.35	3777029.14	1.43612
556692.35	3777029.14	1.64168	556712.35	3777029.14	1.80536
556732.35	3777029.14	1.87289	556752.35	3777029.14	1.85538
556772.35	3777029.14	1.78705	556792.35	3777029.14	1.70173
556812.35	3777029.14	1.61317	556832.35	3777029.14	1.53235
556852.35	3777029.14	1.45967	556672.35	3777049.14	1.89506

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        556692.35    3777049.14        2.17134                    556712.35
3777049.14        2.34176
        556732.35    3777049.14        2.35448                    556752.35
3777049.14        2.27001
        556772.35    3777049.14        2.14965                    556792.35
3777049.14        2.02381
        556812.35    3777049.14        1.90465                    556832.35
3777049.14        1.79654
        556852.35    3777049.14        1.70114                    556927.54
3776959.53        0.82130
        556947.54    3776959.53        0.78841                    556967.54
3776959.53        0.74841
        556987.54    3776959.53        0.70637                    557007.54
3776959.53        0.65979
        557027.54    3776959.53        0.60903                    557047.54
3776959.53        0.55575
        557067.54    3776959.53        0.50255                    557087.54
3776959.53        0.45185
        556927.54    3776979.53        0.91401                    556947.54
3776979.53        0.87269
        556967.54    3776979.53        0.82455                    556987.54
3776979.53        0.77134
        557007.54    3776979.53        0.71354                    557027.54
3776979.53        0.65147
        557047.54    3776979.53        0.58829                    557067.54
3776979.53        0.52718
        557087.54    3776979.53        0.47049                    556927.54
3776999.53        1.02533
        556947.54    3776999.53        0.97112                    556967.54
3776999.53        0.91137
        556987.54    3776999.53        0.84472                    557007.54
3776999.53        0.77190
        557027.54    3776999.53        0.69636                    557047.54
3776999.53        0.62213
        557067.54    3776999.53        0.55257                    557087.54
3776999.53        0.48950
        556927.54    3777019.53        1.15875                    556947.54
3777019.53        1.08923
        556967.54    3777019.53        1.01052                    556987.54
3777019.53        0.92582
        557007.54    3777019.53        0.83483                    557027.54
3777019.53        0.74370
        557047.54    3777019.53        0.65736                    557067.54
3777019.53        0.57867
        557087.54    3777019.53        0.50875                    556927.54
3777039.53        1.32076
        556947.54    3777039.53        1.22879                    556967.54
3777039.53        1.12657
        556987.54    3777039.53        1.01571                    557007.54
3777039.53        0.90255
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         557027.54    3777039.53        0.79378                      557047.54
3777039.53        0.69409
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                  L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                  L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                  L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557067.54    3777039.53        0.60538                      557087.54
3777039.53        0.52805
         557047.54    3777059.53        0.72862                      557067.54
3777059.53        0.62862
         557087.54    3777059.53        0.54370                      556919.02
3777174.93        5.01328
         556939.02    3777174.93        3.72639                      556919.02
3777194.93        6.48246
         556939.02    3777194.93        4.51474                      556919.02
3777214.93        8.45134
         556939.02    3777214.93        5.51528                      556919.02
3777234.93       10.52722
         556939.02    3777234.93        6.79898                      556919.02
3777254.93       13.52027
         556939.02    3777254.93        8.87301                      557023.57
3777171.57        1.22004
         557043.57    3777171.57        0.97397                      557063.57
3777171.57        0.79564
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        557083.57    3777171.57        0.66102                    557023.57
3777191.57        1.28067
        557043.57    3777191.57        1.01372                    557063.57
3777191.57        0.82309
        557083.57    3777191.57        0.67966                    557023.57
3777211.57        1.33914
        557043.57    3777211.57        1.04759                    557063.57
3777211.57        0.84215
        557083.57    3777211.57        0.69759                    557023.57
3777231.57        1.39061
        557043.57    3777231.57        1.07305                    557063.57
3777231.57        0.85456
        557083.57    3777231.57        0.70983                    557023.57
3777251.57        1.42650
        557043.57    3777251.57        1.08944                    557063.57
3777251.57        0.86087
        557083.57    3777251.57        0.71339                    556249.05
3776972.85        0.09326
        556269.05    3776972.85        0.09854                    556229.05
3776992.85        0.09434
        556249.05    3776992.85        0.09936                    556269.05
3776992.85        0.10599
        556289.05    3776992.85        0.11315                    556309.05
3776992.85        0.12054
        556329.05    3776992.85        0.12848                    556209.05
3777012.85        0.09642
        556229.05    3777012.85        0.10085                    556249.05
3777012.85        0.10706
        556269.05    3777012.85        0.11442                    556289.05
3777012.85        0.12270
        556309.05    3777012.85        0.13093                    556329.05
3777012.85        0.14152
        556209.05    3777032.85        0.10316                    556229.05
3777032.85        0.10911
        556249.05    3777032.85        0.11604                    556269.05
3777032.85        0.12401
        556289.05    3777032.85        0.13327                    556309.05
3777032.85        0.14332
        556209.05    3777052.85        0.11180                    556229.05
3777052.85        0.11847
        556249.05    3777052.85        0.12687                    556269.05
3777052.85        0.13568
        556289.05    3777052.85        0.14581                    556309.05
3777052.85        0.15729
        556249.05    3777072.85        0.13812                    556269.05
3777072.85        0.14860
        556289.05    3777072.85        0.16012                    556269.05
3777092.85        0.16252
        556441.69    3776927.49        0.15492                    556461.69
3776927.49        0.16931
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         556481.69    3776927.49        0.18519                       556421.69
3776947.49        0.15615
         556441.69    3776947.49        0.16875                       556461.69
3776947.49        0.18481
         556481.69    3776947.49        0.20273                       556401.69
3776967.49        0.15649
         556421.69    3776967.49        0.17030                       556441.69
3776967.49        0.18470
         556461.69    3776967.49        0.20200                       556481.69
3776967.49        0.22346
         556401.69    3776987.49        0.16954                       556421.69
3776987.49        0.18505
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                  L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                  L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                  L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556441.69    3776987.49        0.20323                       556461.69
3776987.49        0.22355
         556481.69    3776987.49        0.24818                       556421.69
3777007.49        0.20166
         556441.69    3777007.49        0.22225                       556461.69
3777007.49        0.24657
         556481.69    3777007.49        0.27607                       556441.69
3777027.49        0.24449
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         556461.69    3777027.49        0.27234                    556481.69
3777027.49        0.30759
         556251.24    3777154.95        0.19418                    556261.28
3777141.20        0.19328
         556264.98    3777168.16        0.21552                    556279.25
3777151.77        0.21763
         556202.60    3777113.45        0.13899                    556220.05
3777109.75        0.14605
         556187.53    3777090.19        0.12187                    556164.27
3777121.38        0.12599
         557510.26    3776508.23        0.07587                    557530.26
3776508.23        0.07287
         557550.26    3776508.23        0.07001                    557570.26
3776508.23        0.06727
         557590.26    3776508.23        0.06464                    557610.26
3776508.23        0.06212
         557630.26    3776508.23        0.05968                    557650.26
3776508.23        0.05734
         557670.26    3776508.23        0.05508                    557690.26
3776508.23        0.05291
         557510.26    3776528.23        0.07666                    557530.26
3776528.23        0.07356
         557550.26    3776528.23        0.07059                    557570.26
3776528.23        0.06774
         557590.26    3776528.23        0.06501                    557610.26
3776528.23        0.06239
         557630.26    3776528.23        0.05988                    557650.26
3776528.23        0.05748
         557670.26    3776528.23        0.05515                    557690.26
3776528.23        0.05294
         557510.26    3776548.23        0.07738                    557530.26
3776548.23        0.07418
         557550.26    3776548.23        0.07107                    557570.26
3776548.23        0.06811
         557590.26    3776548.23        0.06530                    557610.26
3776548.23        0.06260
         557630.26    3776548.23        0.06001                    557650.26
3776548.23        0.05755
         557670.26    3776548.23        0.05518                    557690.26
3776548.23        0.05293
         557510.26    3776568.23        0.07804                    557530.26
3776568.23        0.07471
         557550.26    3776568.23        0.07150                    557570.26
3776568.23        0.06842
         557590.26    3776568.23        0.06551                    557610.26
3776568.23        0.06273
         557630.26    3776568.23        0.06008                    557650.26
3776568.23        0.05757
         557670.26    3776568.23        0.05516                    557690.26
3776568.23        0.05287
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         557510.26    3776588.23        0.07860                      557530.26
3776588.23        0.07516
         557550.26    3776588.23        0.07184                      557570.26
3776588.23        0.06865
         557590.26    3776588.23        0.06564                      557610.26
3776588.23        0.06279
         557630.26    3776588.23        0.06010                      557650.26
3776588.23        0.05754
         557670.26    3776588.23        0.05510                      557690.26
3776588.23        0.05279
         557510.26    3776608.23        0.07908                      557530.26
3776608.23        0.07552
         557550.26    3776608.23        0.07209                      557570.26
3776608.23        0.06882
         557590.26    3776608.23        0.06571                      557610.26
3776608.23        0.06280
         557630.26    3776608.23        0.06006                      557650.26
3776608.23        0.05746
         557670.26    3776608.23        0.05499                      557690.26
3776608.23        0.05266
         557510.26    3776628.23        0.07946                      557530.26
3776628.23        0.07578
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  72
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
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         556372.49    3776517.81        0.04260                      556392.49
3776517.81        0.04447
         556412.49    3776517.81        0.04614                      556432.49
3776517.81        0.04769
         556452.49    3776517.81        0.04915                      556472.49
3776517.81        0.05086
         556492.49    3776517.81        0.05266                      556172.49
3776537.81        0.02788
         556192.49    3776537.81        0.02897                      556212.49
3776537.81        0.03024
         556232.49    3776537.81        0.03164                      556252.49
3776537.81        0.03319
         556272.49    3776537.81        0.03482                      556292.49
3776537.81        0.03671
         556312.49    3776537.81        0.03856                      556332.49
3776537.81        0.04051
         556352.49    3776537.81        0.04242                      556372.49
3776537.81        0.04423
         556392.49    3776537.81        0.04601                      556412.49
3776537.81        0.04799
         556432.49    3776537.81        0.04983                      556452.49
3776537.81        0.05147
         556472.49    3776537.81        0.05337                      556492.49
3776537.81        0.05534
         556332.49    3776557.81        0.04193                      556352.49
3776557.81        0.04385
         556372.49    3776557.81        0.04597                      556392.49
3776557.81        0.04796
         556412.49    3776557.81        0.05013                      556432.49
3776557.81        0.05211
         556452.49    3776557.81        0.05396                      556472.49
3776557.81        0.05601
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:13:13

                                PAGE  73
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                L0000054    , L0000055    , L0000056    , L0000057    , L0000058
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556492.49	3776557.81	0.05822	556332.49	3776577.81	0.04327
556352.49	3776577.81	0.04553	556372.49	3776577.81	0.04777
556392.49	3776577.81	0.05007	556412.49	3776577.81	0.05239
556432.49	3776577.81	0.05452	556452.49	3776577.81	0.05670
556472.49	3776577.81	0.05897	556492.49	3776577.81	0.06132
556332.49	3776597.81	0.04487	556352.49	3776597.81	0.04725
556372.49	3776597.81	0.04966	556392.49	3776597.81	0.05201
556412.49	3776597.81	0.05467	556432.49	3776597.81	0.05706
556452.49	3776597.81	0.05936	556472.49	3776597.81	0.06186
556492.49	3776597.81	0.06464	556252.49	3776617.81	0.03765
556272.49	3776617.81	0.03949	556292.49	3776617.81	0.04161
556312.49	3776617.81	0.04399	556332.49	3776617.81	0.04632
556352.49	3776617.81	0.04906	556372.49	3776617.81	0.05178
556392.49	3776617.81	0.05440	556412.49	3776617.81	0.05720
556432.49	3776617.81	0.05979	556452.49	3776617.81	0.06255
556472.49	3776617.81	0.06506	556492.49	3776617.81	0.06817
556252.49	3776637.81	0.03905	556272.49	3776637.81	0.04106
556292.49	3776637.81	0.04309	556312.49	3776637.81	0.04546
556332.49	3776637.81	0.04819	556352.49	3776637.81	0.05093

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         556372.49    3776637.81        0.05394                      556392.49
3776637.81        0.05675
         556412.49    3776637.81        0.05976                      556432.49
3776637.81        0.06273
         556452.49    3776637.81        0.06565                      556472.49
3776637.81        0.06870
         556492.49    3776637.81        0.07193                      556252.49
3776657.81        0.04070
         556272.49    3776657.81        0.04265                      556292.49
3776657.81        0.04488
         556312.49    3776657.81        0.04709                      556332.49
3776657.81        0.05003
         556352.49    3776657.81        0.05306                      556372.49
3776657.81        0.05624
         556392.49    3776657.81        0.05922                      556412.49
3776657.81        0.06246
         556432.49    3776657.81        0.06574                      556452.49
3776657.81        0.06906
         556472.49    3776657.81        0.07240                      556492.49
3776657.81        0.07601
         556252.49    3776677.81        0.04253                      556272.49
3776677.81        0.04429
         556292.49    3776677.81        0.04651                      556312.49
3776677.81        0.04909
         556332.49    3776677.81        0.05202                      556352.49
3776677.81        0.05526
         556372.49    3776677.81        0.05860                      556392.49
3776677.81        0.06193
         556412.49    3776677.81        0.06560                      556432.49
3776677.81        0.06903
         556452.49    3776677.81        0.07266                      556472.49
3776677.81        0.07647
         556492.49    3776677.81        0.08043                      556252.49
3776697.81        0.04458
         556272.49    3776697.81        0.04636                      556372.49
3776697.81        0.06119
         556392.49    3776697.81        0.06467                      556412.49
3776697.81        0.06868
         556432.49    3776697.81        0.07259                      556452.49
3776697.81        0.07652
         556472.49    3776697.81        0.08077                      556492.49
3776697.81        0.08522
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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```
                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                  L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                  L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                  L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         556252.49    3776717.81        0.04661                       556272.49
3776717.81        0.04863
         556372.49    3776717.81        0.06396                       556392.49
3776717.81        0.06768
         556412.49    3776717.81        0.07210                       556432.49
3776717.81        0.07642
         556452.49    3776717.81        0.08081                       556472.49
3776717.81        0.08583
         556492.49    3776717.81        0.09045                       556267.40
3776875.81        0.07462
         556239.03    3776853.02        0.06489                       556178.76
3776751.21        0.04471
         556154.45    3776774.51        0.04473                       556119.50
3776705.11        0.03635
         556146.51    3777267.93        0.16701                       556151.00
3777234.88        0.15906
         556144.93    3777179.58        0.13802                       556205.18
3777236.46        0.19958
         556218.00    3777200.04        0.19318                       556774.37
3777347.57        2.58255
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556521.71    3777341.57        1.82470                        556539.90
3777344.94        1.94436
         556591.78    3777345.39        2.41670                        556630.62
3777349.66        2.68344
         556684.29    3777349.43        3.16761                        556905.58
3777351.19        4.47307
         556920.93    3777350.82        4.10690                        556942.87
3777350.09        3.45071
         556996.26    3777348.26        2.01381                        557096.81
3777357.77        0.87992
         557115.83    3777363.62        0.76806                        557129.36
3777361.43        0.72302
         557230.65    3777363.99        0.45467                        556466.22
3776816.07        0.20511
         556407.87    3776826.19        0.17668                        556381.07
3776807.14        0.15444
         556404.29    3776771.52        0.14816                        556465.21
3776739.51        0.16001
         556396.10    3776739.93        0.13272                        556323.99
3777265.43        0.65261
         556330.60    3777233.99        0.62135                        556321.08
3777200.43        0.53019
         556275.11    3777267.81        0.51309                        556278.28
3777233.46        0.47525
         556509.40    3777373.38        1.45937                        556529.40
3777373.38        1.57875
         556549.40    3777373.38        1.70312                        556569.40
3777373.38        1.82852
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        556589.40    3777373.38        1.94911                    556609.40
3777373.38        2.06375
        556629.40    3777373.38        2.17480                    556649.40
3777373.38        2.29185
        556669.40    3777373.38        2.41870                    556689.40
3777373.38        2.54877
        556709.40    3777373.38        2.66823                    556729.40
3777373.38        2.77101
        556749.40    3777373.38        2.86424                    556769.40
3777373.38        2.96444
        556789.40    3777373.38        3.06687                    556809.40
3777373.38        3.16026
        556829.40    3777373.38        3.23436                    556849.40
3777373.38        3.26364
        556869.40    3777373.38        3.21754                    556889.40
3777373.38        3.08593
        556909.40    3777373.38        2.86744                    556929.40
3777373.38        2.58220
        556949.40    3777373.38        2.25965                    556969.40
3777373.38        1.93823
        556989.40    3777373.38        1.65301                    557009.40
3777373.38        1.41789
        557029.40    3777373.38        1.22830                    557049.40
3777373.38        1.07435
        557069.40    3777373.38        0.94790                    557089.40
3777373.38        0.84341
        557109.40    3777373.38        0.75636                    557129.40
3777373.38        0.68327
        557149.40    3777373.38        0.62122                    557169.40
3777373.38        0.56795
        557189.40    3777373.38        0.52172                    557209.40
3777373.38        0.48087
        557229.40    3777373.38        0.44429                    557249.40
3777373.38        0.41136
        557269.40    3777373.38        0.38157                    557289.40
3777373.38        0.35475
        557309.40    3777373.38        0.33043                    557329.40
3777373.38        0.30794
        557349.40    3777373.38        0.28764                    557369.40
3777373.38        0.26888
        557389.40    3777373.38        0.25168                    557409.40
3777373.38        0.23588
        557429.40    3777373.38        0.22125                    557449.40
3777373.38        0.20797
        557469.40    3777373.38        0.19567                    557489.40
3777373.38        0.18414
        556509.40    3777393.38        1.31757                    556529.40
3777393.38        1.41326
        556549.40    3777393.38        1.50754                    556569.40
3777393.38        1.59654
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         556589.40    3777393.38        1.67822                       556609.40
3777393.38        1.75723
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777393.38        1.84008                       556649.40
3777393.38        1.93353
         556669.40    3777393.38        2.03172                       556689.40
3777393.38        2.12256
         556709.40    3777393.38        2.19661                       556729.40
3777393.38        2.25837
         556749.40    3777393.38        2.31358                       556769.40
3777393.38        2.36893
         556789.40    3777393.38        2.41707                       556809.40
3777393.38        2.44817
         556829.40    3777393.38        2.45835                       556849.40
3777393.38        2.43790
         556869.40    3777393.38        2.37582                       556889.40
3777393.38        2.27135
         556909.40    3777393.38        2.13015                       556929.40
3777393.38        1.95648
         556949.40    3777393.38        1.75998                       556969.40
3777393.38        1.55699
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        556989.40    3777393.38        1.36584                    557009.40
3777393.38        1.19848
        557029.40    3777393.38        1.05708                    557049.40
3777393.38        0.93848
        557069.40    3777393.38        0.83850                    557089.40
3777393.38        0.75378
        557109.40    3777393.38        0.68176                    557129.40
3777393.38        0.61999
        557149.40    3777393.38        0.56733                    557169.40
3777393.38        0.52160
        557189.40    3777393.38        0.48174                    557209.40
3777393.38        0.44681
        557229.40    3777393.38        0.41554                    557249.40
3777393.38        0.38709
        557269.40    3777393.38        0.36135                    557289.40
3777393.38        0.33781
        557309.40    3777393.38        0.31605                    557329.40
3777393.38        0.29648
        557349.40    3777393.38        0.27828                    557369.40
3777393.38        0.26149
        557389.40    3777393.38        0.24593                    557409.40
3777393.38        0.23137
        557429.40    3777393.38        0.21792                    557449.40
3777393.38        0.20552
        557469.40    3777393.38        0.19386                    557489.40
3777393.38        0.18291
        556509.40    3777413.38        1.18965                    556529.40
3777413.38        1.26138
        556549.40    3777413.38        1.32731                    556569.40
3777413.38        1.38707
        556589.40    3777413.38        1.44428                    556609.40
3777413.38        1.50521
        556629.40    3777413.38        1.57400                    556649.40
3777413.38        1.64893
        556669.40    3777413.38        1.71941                    556689.40
3777413.38        1.77696
        556709.40    3777413.38        1.82084                    556729.40
3777413.38        1.85737
        556749.40    3777413.38        1.89073                    556769.40
3777413.38        1.91595
        556789.40    3777413.38        1.93244                    556809.40
3777413.38        1.93367
        556829.40    3777413.38        1.92095                    556849.40
3777413.38        1.88944
        556869.40    3777413.38        1.83457                    556889.40
3777413.38        1.75825
        556909.40    3777413.38        1.66238                    556929.40
3777413.38        1.54807
        556949.40    3777413.38        1.41900                    556969.40
3777413.38        1.28201
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         556989.40    3777413.38        1.14766                      557009.40
3777413.38        1.02466
         557029.40    3777413.38        0.91668                      557049.40
3777413.38        0.82361
         557069.40    3777413.38        0.74348                      557089.40
3777413.38        0.67427
         557109.40    3777413.38        0.61439                      557129.40
3777413.38        0.56216
         557149.40    3777413.38        0.51719                      557169.40
3777413.38        0.47774
         557189.40    3777413.38        0.44337                      557209.40
3777413.38        0.41316
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557229.40    3777413.38        0.38604                      557249.40
3777413.38        0.36161
         557269.40    3777413.38        0.33941                      557289.40
3777413.38        0.31904
         557309.40    3777413.38        0.30025                      557329.40
3777413.38        0.28279
         557349.40    3777413.38        0.26690                      557369.40
3777413.38        0.25182
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        557389.40    3777413.38        0.23805                    557409.40
3777413.38        0.22513
        557429.40    3777413.38        0.21276                    557449.40
3777413.38        0.20142
        557469.40    3777413.38        0.19087                    557489.40
3777413.38        0.18075
        556509.40    3777433.38        1.06873                    556529.40
3777433.38        1.11839
        556549.40    3777433.38        1.16279                    556569.40
3777433.38        1.20525
        556589.40    3777433.38        1.25058                    556609.40
3777433.38        1.30275
        556629.40    3777433.38        1.36031                    556649.40
3777433.38        1.41617
        556669.40    3777433.38        1.46219                    556689.40
3777433.38        1.49567
        556709.40    3777433.38        1.52101                    556729.40
3777433.38        1.54189
        556749.40    3777433.38        1.55995                    556769.40
3777433.38        1.56905
        556789.40    3777433.38        1.56939                    556809.40
3777433.38        1.55900
        556829.40    3777433.38        1.53974                    556849.40
3777433.38        1.50979
        556869.40    3777433.38        1.46596                    556889.40
3777433.38        1.40944
        556909.40    3777433.38        1.34147                    556929.40
3777433.38        1.26235
        556949.40    3777433.38        1.17267                    556969.40
3777433.38        1.07589
        556989.40    3777433.38        0.97800                    557009.40
3777433.38        0.88537
        557029.40    3777433.38        0.80138                    557049.40
3777433.38        0.72720
        557069.40    3777433.38        0.66209                    557089.40
3777433.38        0.60496
        557109.40    3777433.38        0.55481                    557129.40
3777433.38        0.51054
        557149.40    3777433.38        0.47177                    557169.40
3777433.38        0.43747
        557189.40    3777433.38        0.40751                    557209.40
3777433.38        0.38108
        557229.40    3777433.38        0.35735                    557249.40
3777433.38        0.33631
        557269.40    3777433.38        0.31708                    557289.40
3777433.38        0.29934
        557309.40    3777433.38        0.28321                    557329.40
3777433.38        0.26798
        557349.40    3777433.38        0.25364                    557369.40
3777433.38        0.24054
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         557389.40    3777433.38        0.22859                      557409.40
3777433.38        0.21718
         557429.40    3777433.38        0.20607                      557449.40
3777433.38        0.19590
         557469.40    3777433.38        0.18628                      557489.40
3777433.38        0.17720
         556509.40    3777453.38        0.95301                      556529.40
3777453.38        0.98641
         556549.40    3777453.38        1.01840                      556569.40
3777453.38        1.05315
         556589.40    3777453.38        1.09346                      556609.40
3777453.38        1.13874
         556629.40    3777453.38        1.18364                      556649.40
3777453.38        1.22136
         556669.40    3777453.38        1.24853                      556689.40
3777453.38        1.26724
         556709.40    3777453.38        1.28171                      556729.40
3777453.38        1.29318
         556749.40    3777453.38        1.30091                      556769.40
3777453.38        1.30184
         556789.40    3777453.38        1.29438                      556809.40
3777453.38        1.28020
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  78
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
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 - - -
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         556789.40    3777473.38        1.08310                      556809.40
3777473.38        1.06844
         556829.40    3777473.38        1.05119                      556849.40
3777473.38        1.03034
         556869.40    3777473.38        1.00387                      556889.40
3777473.38        0.97160
         556909.40    3777473.38        0.93384                      556929.40
3777473.38        0.89133
         556949.40    3777473.38        0.84357                      556969.40
3777473.38        0.79081
         556989.40    3777473.38        0.73496                      557009.40
3777473.38        0.67906
         557029.40    3777473.38        0.62582                      557049.40
3777473.38        0.57684
         557069.40    3777473.38        0.53259                      557089.40
3777473.38        0.49269
         557109.40    3777473.38        0.45684                      557129.40
3777473.38        0.42448
         557149.40    3777473.38        0.39548                      557169.40
3777473.38        0.36922
         557189.40    3777473.38        0.34578                      557209.40
3777473.38        0.32487
         557229.40    3777473.38        0.30615                      557249.40
3777473.38        0.28957
         557269.40    3777473.38        0.27456                      557289.40
3777473.38        0.26100
         557309.40    3777473.38        0.24865                      557329.40
3777473.38        0.23725
         557349.40    3777473.38        0.22652                      557369.40
3777473.38        0.21646
         557389.40    3777473.38        0.20688                      557409.40
3777473.38        0.19798
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
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, L0000053   , L0000054   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557429.40	3777473.38	0.18942	557449.40	3777473.38	0.18155
557469.40	3777473.38	0.17389	557489.40	3777473.38	0.16656
556509.40	3777493.38	0.75124	556529.40	3777493.38	0.77250
556549.40	3777493.38	0.79779	556569.40	3777493.38	0.82707
556589.40	3777493.38	0.85746	556609.40	3777493.38	0.88442
556629.40	3777493.38	0.90407	556649.40	3777493.38	0.91641
556669.40	3777493.38	0.92405	556689.40	3777493.38	0.92947
556709.40	3777493.38	0.93361	556729.40	3777493.38	0.93589
556749.40	3777493.38	0.93515	556769.40	3777493.38	0.92886
556789.40	3777493.38	0.91786	556809.40	3777493.38	0.90436
556829.40	3777493.38	0.88970	556849.40	3777493.38	0.87315
556869.40	3777493.38	0.85247	556889.40	3777493.38	0.82725
556909.40	3777493.38	0.79800	556929.40	3777493.38	0.76548
556949.40	3777493.38	0.72934	556969.40	3777493.38	0.68923
556989.40	3777493.38	0.64601	557009.40	3777493.38	0.60169
557029.40	3777493.38	0.55849	557049.40	3777493.38	0.51803
557069.40	3777493.38	0.48098	557089.40	3777493.38	0.44724
557109.40	3777493.38	0.41667	557129.40	3777493.38	0.38882
557149.40	3777493.38	0.36358	557169.40	3777493.38	0.34064

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         557189.40    3777493.38        0.31979                      557209.40
3777493.38        0.30110
         557229.40    3777493.38        0.28419                      557249.40
3777493.38        0.26907
         557269.40    3777493.38        0.25555                      557289.40
3777493.38        0.24336
         557309.40    3777493.38        0.23228                      557329.40
3777493.38        0.22219
         557349.40    3777493.38        0.21285                      557369.40
3777493.38        0.20406
         557389.40    3777493.38        0.19581                      557409.40
3777493.38        0.18796
         557429.40    3777493.38        0.18027                      557449.40
3777493.38        0.17322
         557469.40    3777493.38        0.16656                      557489.40
3777493.38        0.16009
         556509.40    3777513.38        0.67129                      556529.40
3777513.38        0.69170
         556549.40    3777513.38        0.71560                      556569.40
3777513.38        0.74117
         556589.40    3777513.38        0.76444                      556609.40
3777513.38        0.78178
         556629.40    3777513.38        0.79267                      556649.40
3777513.38        0.79869
         556669.40    3777513.38        0.80243                      556689.40
3777513.38        0.80519
         556709.40    3777513.38        0.80709                      556729.40
3777513.38        0.80737
         556749.40    3777513.38        0.80472                      556769.40
3777513.38        0.79733
         556789.40    3777513.38        0.78657                      556809.40
3777513.38        0.77474
         556829.40    3777513.38        0.76273                      556849.40
3777513.38        0.74961
         556869.40    3777513.38        0.73334                      556889.40
3777513.38        0.71336
         556909.40    3777513.38        0.69027                      556929.40
3777513.38        0.66478
         556949.40    3777513.38        0.63686                      556969.40
3777513.38        0.60593
         556989.40    3777513.38        0.57210                      557009.40
3777513.38        0.53663
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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```
                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                               *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557029.40    3777513.38        0.50125                        557049.40
3777513.38        0.46753
         557069.40    3777513.38        0.43621                        557089.40
3777513.38        0.40749
         557109.40    3777513.38        0.38122                        557129.40
3777513.38        0.35717
         557149.40    3777513.38        0.33519                        557169.40
3777513.38        0.31506
         557189.40    3777513.38        0.29660                        557209.40
3777513.38        0.27988
         557229.40    3777513.38        0.26456                        557249.40
3777513.38        0.25084
         557269.40    3777513.38        0.23840                        557289.40
3777513.38        0.22721
         557309.40    3777513.38        0.21718                        557329.40
3777513.38        0.20808
         557349.40    3777513.38        0.19971                        557369.40
3777513.38        0.19193
         557389.40    3777513.38        0.18470                        557409.40
3777513.38        0.17787
         557429.40    3777513.38        0.17122                        557449.40
3777513.38        0.16491
         557469.40    3777513.38        0.15892                        557489.40
3777513.38        0.15321
         556509.40    3777533.38        0.60482                        556529.40
3777533.38        0.62455
         556549.40    3777533.38        0.64603                        556569.40
3777533.38        0.66626
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        556589.40    3777533.38        0.68197                    556609.40
3777533.38        0.69183
        556629.40    3777533.38        0.69704                    556649.40
3777533.38        0.69982
        556669.40    3777533.38        0.70157                    556689.40
3777533.38        0.70282
        556709.40    3777533.38        0.70342                    556729.40
3777533.38        0.70253
        556749.40    3777533.38        0.69869                    556769.40
3777533.38        0.69101
        556789.40    3777533.38        0.68093                    556809.40
3777533.38        0.67079
        556829.40    3777533.38        0.66102                    556849.40
3777533.38        0.65065
        556869.40    3777533.38        0.63776                    556889.40
3777533.38        0.62175
        556909.40    3777533.38        0.60319                    556929.40
3777533.38        0.58284
        556949.40    3777533.38        0.56084                    556969.40
3777533.38        0.53664
        556989.40    3777533.38        0.50996                    557009.40
3777533.38        0.48139
        557029.40    3777533.38        0.45223                    557049.40
3777533.38        0.42389
        557069.40    3777533.38        0.39725                    557089.40
3777533.38        0.37260
        557109.40    3777533.38        0.34991                    557129.40
3777533.38        0.32905
        557149.40    3777533.38        0.30983                    557169.40
3777533.38        0.29208
        557189.40    3777533.38        0.27575                    557209.40
3777533.38        0.26081
        557229.40    3777533.38        0.24697                    557249.40
3777533.38        0.23446
        557269.40    3777533.38        0.22303                    557289.40
3777533.38        0.21272
        557309.40    3777533.38        0.20342                    557329.40
3777533.38        0.19502
        557349.40    3777533.38        0.18742                    557369.40
3777533.38        0.18041
        557389.40    3777533.38        0.17388                    557409.40
3777533.38        0.16790
        557429.40    3777533.38        0.16214                    557449.40
3777533.38        0.15666
        557469.40    3777533.38        0.15130                    557489.40
3777533.38        0.14616
        556509.40    3777553.38        0.54931                    556529.40
3777553.38        0.56751
        556549.40    3777553.38        0.58517                    556569.40
3777553.38        0.59955
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         556589.40    3777553.38        0.60886                      556609.40
3777553.38        0.61353
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777553.38        0.61573                      556649.40
3777553.38        0.61689
         556669.40    3777553.38        0.61750                      556689.40
3777553.38        0.61788
         556709.40    3777553.38        0.61775                      556729.40
3777553.38        0.61610
         556749.40    3777553.38        0.61163                      556769.40
3777553.38        0.60401
         556789.40    3777553.38        0.59488                      556809.40
3777553.38        0.58626
         556829.40    3777553.38        0.57838                      556849.40
3777553.38        0.57010
         556869.40    3777553.38        0.55979                      556889.40
3777553.38        0.54686
         556909.40    3777553.38        0.53174                      556929.40
3777553.38        0.51519
         556949.40    3777553.38        0.49754                      556969.40
3777553.38        0.47836
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        556989.40    3777553.38        0.45713                    557009.40
3777553.38        0.43404
        557029.40    3777553.38        0.40989                    557049.40
3777553.38        0.38596
        557069.40    3777553.38        0.36314                    557089.40
3777553.38        0.34184
        557109.40    3777553.38        0.32212                    557129.40
3777553.38        0.30391
        557149.40    3777553.38        0.28704                    557169.40
3777553.38        0.27140
        557189.40    3777553.38        0.25691                    557209.40
3777553.38        0.24352
        557229.40    3777553.38        0.23112                    557249.40
3777553.38        0.21970
        557269.40    3777553.38        0.20923                    557289.40
3777553.38        0.19969
        557309.40    3777553.38        0.19102                    557329.40
3777553.38        0.18318
        557349.40    3777553.38        0.17611                    557369.40
3777553.38        0.16969
        557389.40    3777553.38        0.16375                    557409.40
3777553.38        0.15832
        557429.40    3777553.38        0.15323                    557449.40
3777553.38        0.14842
        557469.40    3777553.38        0.14377                    557489.40
3777553.38        0.13919
        557438.91    3777336.71        0.21678                    556615.91
3777136.99        5.71033
        556586.37    3777056.16        1.35048                    556672.35
3776929.14        0.94903
        556692.35    3776929.14        1.06051                    556712.35
3776929.14        1.18052
        556732.35    3776929.14        1.29459                    556752.35
3776929.14        1.40843
        556772.35    3776929.14        1.50059                    556792.35
3776929.14        1.58791
        556812.35    3776929.14        1.67912                    556832.35
3776929.14        1.74179
        556852.35    3776929.14        1.81290                    556672.35
3776949.14        1.08060
        556692.35    3776949.14        1.21752                    556712.35
3776949.14        1.36443
        556732.35    3776949.14        1.50592                    556752.35
3776949.14        1.62973
        556772.35    3776949.14        1.74356                    556792.35
3776949.14        1.85422
        556812.35    3776949.14        1.95457                    556832.35
3776949.14        2.03134
        556852.35    3776949.14        2.12433                    556672.35
3776969.14        1.24689
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         556692.35    3776969.14        1.41401                      556712.35
3776969.14        1.59758
         556732.35    3776969.14        1.77414                      556752.35
3776969.14        1.92334
         556772.35    3776969.14        2.05153                      556792.35
3776969.14        2.17741
         556812.35    3776969.14        2.29360                      556832.35
3776969.14        2.40554
         556852.35    3776969.14        2.53264                      556672.35
3776989.14        1.46389
         556692.35    3776989.14        1.66771                      556712.35
3776989.14        1.89364
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         556732.35    3776989.14        2.10850                      556752.35
3776989.14        2.28783
         556772.35    3776989.14        2.43686                      556792.35
3776989.14        2.58925
         556812.35    3776989.14        2.73343                      556832.35
3776989.14        2.89131
         556852.35    3776989.14        3.08179                      556672.35
3777009.14        1.75087
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        556692.35    3777009.14        2.00672                    556712.35
3777009.14        2.28055
        556732.35    3777009.14        2.53259                    556752.35
3777009.14        2.74317
        556772.35    3777009.14        2.92523                    556792.35
3777009.14        3.12161
        556812.35    3777009.14        3.32018                    556832.35
3777009.14        3.55054
        556852.35    3777009.14        3.84328                    556672.35
3777029.14        2.14818
        556692.35    3777029.14        2.47552                    556712.35
3777029.14        2.80333
        556732.35    3777029.14        3.08100                    556752.35
3777029.14        3.32196
        556772.35    3777029.14        3.55624                    556792.35
3777029.14        3.83150
        556812.35    3777029.14        4.13485                    556832.35
3777029.14        4.49936
        556852.35    3777029.14        4.93693                    556672.35
3777049.14        2.71869
        556692.35    3777049.14        3.14951                    556712.35
3777049.14        3.52526
        556732.35    3777049.14        3.80867                    556752.35
3777049.14        4.08123
        556772.35    3777049.14        4.40217                    556792.35
3777049.14        4.81482
        556812.35    3777049.14        5.32509                    556832.35
3777049.14        5.92203
        556852.35    3777049.14        6.57846                    556927.54
3776959.53        2.78975
        556947.54    3776959.53        2.66404                    556967.54
3776959.53        2.39390
        556987.54    3776959.53        2.06750                    557007.54
3776959.53        1.77081
        557027.54    3776959.53        1.53751                    557047.54
3776959.53        1.35259
        557067.54    3776959.53        1.19501                    557087.54
3776959.53        1.05531
        556927.54    3776979.53        3.25134                    556947.54
3776979.53        2.98720
        556967.54    3776979.53        2.58963                    556987.54
3776979.53        2.19164
        557007.54    3776979.53        1.87222                    557027.54
3776979.53        1.62564
        557047.54    3776979.53        1.42268                    557067.54
3776979.53        1.24629
        557087.54    3776979.53        1.09130                    556927.54
3776999.53        3.77342
        556947.54    3776999.53        3.31481                    556967.54
3776999.53        2.78441
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         556987.54    3776999.53        2.33272                      557007.54
3776999.53        1.99124
         557027.54    3776999.53        1.72186                      557047.54
3776999.53        1.49372
         557067.54    3776999.53        1.29622                      557087.54
3776999.53        1.12614
         556927.54    3777019.53        4.34351                      556947.54
3777019.53        3.64589
         556967.54    3777019.53        2.99303                      556987.54
3777019.53        2.49918
         557007.54    3777019.53        2.12653                      557027.54
3777019.53        1.82271
         557047.54    3777019.53        1.56475                      557067.54
3777019.53        1.34549
         557087.54    3777019.53        1.16071                      556927.54
3777039.53        4.95148
         556947.54    3777039.53        3.99270                      556967.54
3777039.53        3.23915
         556987.54    3777039.53        2.69541                      557007.54
3777039.53        2.27392
         557027.54    3777039.53        1.92639                      557047.54
3777039.53        1.63615
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
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         556309.05    3777012.85        0.23520                      556329.05
3777012.85        0.25221
         556209.05    3777032.85        0.18976                      556229.05
3777032.85        0.20018
         556249.05    3777032.85        0.21205                      556269.05
3777032.85        0.22542
         556289.05    3777032.85        0.24072                      556309.05
3777032.85        0.25716
         556209.05    3777052.85        0.20408                      556229.05
3777052.85        0.21578
         556249.05    3777052.85        0.23004                      556269.05
3777052.85        0.24506
         556289.05    3777052.85        0.26202                      556309.05
3777052.85        0.28100
         556249.05    3777072.85        0.24822                      556269.05
3777072.85        0.26585
         556289.05    3777072.85        0.28512                      556269.05
3777092.85        0.28794
         556441.69    3776927.49        0.27887                      556461.69
3776927.49        0.30365
         556481.69    3776927.49        0.32978                      556421.69
3776947.49        0.27720
         556441.69    3776947.49        0.29931                      556461.69
3776947.49        0.32720
         556481.69    3776947.49        0.35722                      556401.69
3776967.49        0.27467
         556421.69    3776967.49        0.29817                      556441.69
3776967.49        0.32254
         556461.69    3776967.49        0.35197                      556481.69
3776967.49        0.38804
         556401.69    3776987.49        0.29516                      556421.69
3776987.49        0.32030
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:13:13

                                PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                   L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                   L0000048    , L0000049    , L0000050    , L0000051    , L0000052
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, L0000053   , L0000054   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556441.69	3776987.49	0.35016	556461.69	3776987.49	0.38355
556481.69	3776987.49	0.42400	556421.69	3777007.49	0.34650
556441.69	3777007.49	0.37880	556461.69	3777007.49	0.41729
556481.69	3777007.49	0.46423	556441.69	3777027.49	0.41427
556461.69	3777027.49	0.45642	556481.69	3777027.49	0.51047
556251.24	3777154.95	0.33532	556261.28	3777141.20	0.33532
556264.98	3777168.16	0.36809	556279.25	3777151.77	0.37318
556202.60	3777113.45	0.24803	556220.05	3777109.75	0.25991
556187.53	3777090.19	0.21971	556164.27	3777121.38	0.22585
557510.26	3776508.23	0.16657	557530.26	3776508.23	0.15851
557550.26	3776508.23	0.15071	557570.26	3776508.23	0.14323
557590.26	3776508.23	0.13616	557610.26	3776508.23	0.12952
557630.26	3776508.23	0.12323	557650.26	3776508.23	0.11736
557670.26	3776508.23	0.11185	557690.26	3776508.23	0.10671
557510.26	3776528.23	0.16697	557530.26	3776528.23	0.15850
557550.26	3776528.23	0.15044	557570.26	3776528.23	0.14273
557590.26	3776528.23	0.13555	557610.26	3776528.23	0.12883
557630.26	3776528.23	0.12257	557650.26	3776528.23	0.11675
557670.26	3776528.23	0.11126	557690.26	3776528.23	0.10620

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         557510.26    3776548.23        0.16686                        557530.26
3776548.23        0.15819
         557550.26    3776548.23        0.14978                        557570.26
3776548.23        0.14195
         557590.26    3776548.23        0.13476                        557610.26
3776548.23        0.12803
         557630.26    3776548.23        0.12180                        557650.26
3776548.23        0.11605
         557670.26    3776548.23        0.11064                        557690.26
3776548.23        0.10566
         557510.26    3776568.23        0.16639                        557530.26
3776568.23        0.15750
         557550.26    3776568.23        0.14901                        557570.26
3776568.23        0.14106
         557590.26    3776568.23        0.13383                        557610.26
3776568.23        0.12711
         557630.26    3776568.23        0.12092                        557650.26
3776568.23        0.11528
         557670.26    3776568.23        0.10991                        557690.26
3776568.23        0.10494
         557510.26    3776588.23        0.16558                        557530.26
3776588.23        0.15661
         557550.26    3776588.23        0.14805                        557570.26
3776588.23        0.14000
         557590.26    3776588.23        0.13267                        557610.26
3776588.23        0.12599
         557630.26    3776588.23        0.11996                        557650.26
3776588.23        0.11436
         557670.26    3776588.23        0.10911                        557690.26
3776588.23        0.10425
         557510.26    3776608.23        0.16444                        557530.26
3776608.23        0.15543
         557550.26    3776608.23        0.14680                        557570.26
3776608.23        0.13879
         557590.26    3776608.23        0.13137                        557610.26
3776608.23        0.12474
         557630.26    3776608.23        0.11881                        557650.26
3776608.23        0.11325
         557670.26    3776608.23        0.10805                        557690.26
3776608.23        0.10321
         557510.26    3776628.23        0.16302                        557530.26
3776628.23        0.15392
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 , L0000059 , L0000060 , L0000061 , L0000062 , L0000063 , L0000064 , L0000065 , L0000066 , L0000067 , L0000068 , L0000069 , L0000070 , L0000045 , L0000046 , L0000047 , L0000048 , L0000049 , L0000050 , L0000051 , L0000052 , L0000053 , L0000054 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557550.26	3776628.23	0.14518	557570.26	3776628.23	0.13761
557590.26	3776628.23	0.12991	557610.26	3776628.23	0.12334
557630.26	3776628.23	0.11741	557650.26	3776628.23	0.11206
557670.26	3776628.23	0.10696	557690.26	3776628.23	0.10227
557510.26	3776648.23	0.16114	557530.26	3776648.23	0.15184
557550.26	3776648.23	0.14309	557570.26	3776648.23	0.13497
557590.26	3776648.23	0.12805	557610.26	3776648.23	0.12138
557630.26	3776648.23	0.11583	557650.26	3776648.23	0.11070
557670.26	3776648.23	0.10569	557690.26	3776648.23	0.10115
557510.26	3776668.23	0.15809	557530.26	3776668.23	0.14886
557550.26	3776668.23	0.14015	557570.26	3776668.23	0.13210
557590.26	3776668.23	0.12570	557610.26	3776668.23	0.11918
557630.26	3776668.23	0.11358	557650.26	3776668.23	0.10868
557670.26	3776668.23	0.10415	557690.26	3776668.23	0.09983

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        557510.26    3776688.23        0.15520                    557530.26
3776688.23        0.14624
        557550.26    3776688.23        0.13812                    557570.26
3776688.23        0.13097
        557590.26    3776688.23        0.12442                    557610.26
3776688.23        0.11823
        557630.26    3776688.23        0.11292                    557650.26
3776688.23        0.10784
        557670.26    3776688.23        0.10316                    557690.26
3776688.23        0.09884
        556172.49    3776517.81        0.05227                    556192.49
3776517.81        0.05408
        556212.49    3776517.81        0.05585                    556232.49
3776517.81        0.05795
        556252.49    3776517.81        0.06022                    556272.49
3776517.81        0.06276
        556292.49    3776517.81        0.06540                    556312.49
3776517.81        0.06811
        556332.49    3776517.81        0.07120                    556352.49
3776517.81        0.07454
        556372.49    3776517.81        0.07831                    556392.49
3776517.81        0.08344
        556412.49    3776517.81        0.08877                    556432.49
3776517.81        0.09356
        556452.49    3776517.81        0.09721                    556472.49
3776517.81        0.10063
        556492.49    3776517.81        0.10406                    556172.49
3776537.81        0.05406
        556192.49    3776537.81        0.05574                    556212.49
3776537.81        0.05768
        556232.49    3776537.81        0.05979                    556252.49
3776537.81        0.06212
        556272.49    3776537.81        0.06459                    556292.49
3776537.81        0.06750
        556312.49    3776537.81        0.07041                    556332.49
3776537.81        0.07358
        556352.49    3776537.81        0.07692                    556372.49
3776537.81        0.08061
        556392.49    3776537.81        0.08505                    556412.49
3776537.81        0.09076
        556432.49    3776537.81        0.09650                    556452.49
3776537.81        0.10118
        556472.49    3776537.81        0.10547                    556492.49
3776537.81        0.10930
        556332.49    3776557.81        0.07630                    556352.49
3776557.81        0.07949
        556372.49    3776557.81        0.08335                    556392.49
3776557.81        0.08767
        556412.49    3776557.81        0.09329                    556432.49
3776557.81        0.09933
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         556452.49    3776557.81        0.10502                       556472.49
3776557.81        0.11025
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                   L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                   L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                   L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556492.49    3776557.81        0.11489                       556332.49
3776577.81        0.07900
         556352.49    3776577.81        0.08263                       556372.49
3776577.81        0.08646
         556392.49    3776577.81        0.09087                       556412.49
3776577.81        0.09619
         556432.49    3776577.81        0.10220                       556452.49
3776577.81        0.10884
         556472.49    3776577.81        0.11523                       556492.49
3776577.81        0.12070
         556332.49    3776597.81        0.08218                       556352.49
3776597.81        0.08595
         556372.49    3776597.81        0.08991                       556392.49
3776597.81        0.09406
         556412.49    3776597.81        0.09943                       556432.49
3776597.81        0.10535
         556452.49    3776597.81        0.11207                       556472.49
3776597.81        0.11939
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         556492.49    3776597.81        0.12649                    556252.49
3776617.81        0.07206
         556272.49    3776617.81        0.07482                    556292.49
3776617.81        0.07802
         556312.49    3776617.81        0.08164                    556332.49
3776617.81        0.08521
         556352.49    3776617.81        0.08951                    556372.49
3776617.81        0.09390
         556392.49    3776617.81        0.09828                    556412.49
3776617.81        0.10345
         556432.49    3776617.81        0.10909                    556452.49
3776617.81        0.11624
         556472.49    3776617.81        0.12367                    556492.49
3776617.81        0.13212
         556252.49    3776637.81        0.07513                    556272.49
3776637.81        0.07825
         556292.49    3776637.81        0.08128                    556312.49
3776637.81        0.08483
         556332.49    3776637.81        0.08902                    556352.49
3776637.81        0.09326
         556372.49    3776637.81        0.09803                    556392.49
3776637.81        0.10261
         556412.49    3776637.81        0.10780                    556432.49
3776637.81        0.11356
         556452.49    3776637.81        0.12030                    556472.49
3776637.81        0.12850
         556492.49    3776637.81        0.13757                    556252.49
3776657.81        0.07864
         556272.49    3776657.81        0.08174                    556292.49
3776657.81        0.08516
         556312.49    3776657.81        0.08839                    556332.49
3776657.81        0.09289
         556352.49    3776657.81        0.09756                    556372.49
3776657.81        0.10254
         556392.49    3776657.81        0.10727                    556412.49
3776657.81        0.11264
         556432.49    3776657.81        0.11849                    556452.49
3776657.81        0.12525
         556472.49    3776657.81        0.13336                    556492.49
3776657.81        0.14308
         556252.49    3776677.81        0.08244                    556272.49
3776677.81        0.08527
         556292.49    3776677.81        0.08877                    556312.49
3776677.81        0.09271
         556332.49    3776677.81        0.09715                    556352.49
3776677.81        0.10210
         556372.49    3776677.81        0.10725                    556392.49
3776677.81        0.11245
         556412.49    3776677.81        0.11841                    556432.49
3776677.81        0.12421
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         556452.49    3776677.81        0.13094                       556472.49
3776677.81        0.13912
         556492.49    3776677.81        0.14900                       556252.49
3776697.81        0.08659
         556272.49    3776697.81        0.08956                       556372.49
3776697.81        0.11248
         556392.49    3776697.81        0.11780                       556412.49
3776697.81        0.12420
         556432.49    3776697.81        0.13061                       556452.49
3776697.81        0.13746
         556472.49    3776697.81        0.14567                       556492.49
3776697.81        0.15562
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  87
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         556252.49    3776717.81        0.09055                       556272.49
3776717.81        0.09412
         556372.49    3776717.81        0.11819                       556392.49
3776717.81        0.12378
         556412.49    3776717.81        0.13072                       556432.49
3776717.81        0.13765
         556452.49    3776717.81        0.14498                       556472.49
3776717.81        0.15399
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         556492.49    3776717.81        0.16336                      556267.40
3776875.81        0.13764
         556239.03    3776853.02        0.12058                      556178.76
3776751.21        0.08687
         556154.45    3776774.51        0.08551                      556119.50
3776705.11        0.07132
         556146.51    3777267.93        0.29690                      556151.00
3777234.88        0.27878
         556144.93    3777179.58        0.24137                      556205.18
3777236.46        0.34624
         556218.00    3777200.04        0.33158                      556774.37
3777347.57        4.07931
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556521.71   3777341.57      468.50805  (19010708)               556539.90
3777344.94      332.78756  (19011708)
         556591.78   3777345.39     1095.67964  (19011708)               556630.62
3777349.66     1157.35523  (19011708)
         556684.29   3777349.43      983.56235  (21010508)               556905.58
3777351.19      435.19320  (21012508)
         556920.93   3777350.82      402.78777  (21012508)               556942.87
3777350.09      488.36477  (23010608)
         556996.26   3777348.26      355.65431  (23010608)               557096.81
3777357.77      313.23351  (23010308)
         557115.83   3777363.62      316.34242  (23010308)               557129.36
3777361.43      334.57372  (23010308)
         557230.65   3777363.99      209.58914  (19011508)               556466.22
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3776816.07       57.18406  (23122209)
        556407.87   3776826.19       76.11246  (19020508)                556381.07
3776807.14       70.40848  (19020508)
        556404.29   3776771.52       55.14579  (23122209)                556465.21
3776739.51       20.16839  (21122410)
        556396.10   3776739.93       36.70723  (23122209)                556323.99
3777265.43       89.75817  (18122608)
        556330.60   3777233.99       40.74653  (19011408)                556321.08
3777200.43      182.76567  (19011408)
        556275.11   3777267.81       48.04458  (18122608)                556278.28
3777233.46       39.59455  (19011408)
        556509.40   3777373.38      397.63574  (19011708)                556529.40
3777373.38      633.58715  (19011708)
        556549.40   3777373.38      885.55429  (19011708)                556569.40
3777373.38     1062.65248  (19011708)
        556589.40   3777373.38     1078.71886  (19011708)                556609.40
3777373.38      936.59996  (19011608)
        556629.40   3777373.38      723.02229  (19011608)                556649.40
3777373.38      509.39712  (21010508)
        556669.40   3777373.38      953.35953  (21010508)                556689.40
3777373.38     1302.65856  (21010508)
        556709.40   3777373.38     1253.64828  (21010508)                556729.40
3777373.38     1102.28781  (21012908)
        556749.40   3777373.38      820.61755  (21012908)                556769.40
3777373.38      705.33250  (19012408)
        556789.40   3777373.38      717.43251  (18122708)                556809.40
3777373.38      582.89526  (18123108)
        556829.40   3777373.38      316.44332  (18123108)                556849.40
3777373.38      216.87204  (19112908)
        556869.40   3777373.38      175.41609  (19112908)                556889.40
3777373.38      292.25992  (21012508)
        556909.40   3777373.38      376.76493  (21012508)                556929.40
3777373.38      359.04553  (21012508)
        556949.40   3777373.38      386.61021  (23010608)                556969.40
3777373.38      446.30670  (23010608)
        556989.40   3777373.38      424.10961  (23010608)                557009.40
3777373.38      338.51787  (23010608)
        557029.40   3777373.38      230.10984  (23010608)                557049.40
3777373.38      161.33960  (19120408)
        557069.40   3777373.38      158.90007  (23010308)                557089.40
3777373.38      212.88917  (23010308)
        557109.40   3777373.38      260.61146  (23010308)                557129.40
3777373.38      294.51836  (23010308)
        557149.40   3777373.38      309.97086  (23010308)                557169.40
3777373.38      306.50197  (23010308)
        557189.40   3777373.38      287.06708  (23010308)                557209.40
3777373.38      255.56079  (23010308)
        557229.40   3777373.38      217.24444  (23010308)                557249.40
3777373.38      197.15636  (19011508)
        557269.40   3777373.38      190.56868  (19011508)                557289.40
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3777373.38      179.37603  (19011508)
        557309.40   3777373.38      176.26271  (21121308)                557329.40
3777373.38      171.42441  (21121308)
        557349.40   3777373.38      163.71564  (21121308)                557369.40
3777373.38      155.74074  (23010408)
        557389.40   3777373.38      168.38888  (23010408)                557409.40
3777373.38      178.55078  (23010408)
        557429.40   3777373.38      185.51109  (23010408)                557449.40
3777373.38      190.31312  (23010408)
        557469.40   3777373.38      191.98648  (23010408)                557489.40
3777373.38      190.14341  (23010408)
        556509.40   3777393.38      666.84174  (19011708)                556529.40
3777393.38      867.76106  (19011708)
        556549.40   3777393.38      977.44024  (19011708)                556569.40
3777393.38      931.55551  (19011708)
        556589.40   3777393.38      817.36791  (19011608)                556609.40
3777393.38      606.75715  (19011608)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556629.40   3777393.38      400.05818  (21010508)                556649.40
3777393.38      773.47800  (21010508)
        556669.40   3777393.38     1120.06961  (21010508)                556689.40
3777393.38     1182.15179  (21010508)
        556709.40   3777393.38     1011.01286  (21012908)                556729.40
3777393.38      874.57564  (21012908)
        556749.40   3777393.38      692.98652  (19012408)                556769.40
3777393.38      612.89753  (18122708)
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        556789.40   3777393.38      632.67693  (18123108)              556809.40
3777393.38      478.75343  (18123108)
        556829.40   3777393.38      244.34373  (18123108)              556849.40
3777393.38      192.10244  (19112908)
        556869.40   3777393.38      159.78723  (19112908)              556889.40
3777393.38      219.61373  (21012508)
        556909.40   3777393.38      318.32881  (21012508)              556929.40
3777393.38      341.22944  (21012508)
        556949.40   3777393.38      281.49720  (21012508)              556969.40
3777393.38      371.12029  (23010608)
        556989.40   3777393.38      401.95658  (23010608)              557009.40
3777393.38      365.21913  (23010608)
        557029.40   3777393.38      282.07487  (23010608)              557049.40
3777393.38      187.98867  (23010608)
        557069.40   3777393.38      142.93228  (19120408)              557089.40
3777393.38      121.50130  (23010308)
        557109.40   3777393.38      167.31452  (23010308)              557129.40
3777393.38      210.62818  (23010308)
        557149.40   3777393.38      246.65479  (23010308)              557169.40
3777393.38      268.74234  (23010308)
        557189.40   3777393.38      275.55386  (23010308)              557209.40
3777393.38      268.33519  (23010308)
        557229.40   3777393.38      248.49228  (23010308)              557249.40
3777393.38      219.45365  (23010308)
        557269.40   3777393.38      186.70950  (23010308)              557289.40
3777393.38      174.13623  (19011508)
        557309.40   3777393.38      169.06700  (19011508)              557329.40
3777393.38      160.82984  (19011508)
        557349.40   3777393.38      155.55762  (21121308)              557369.40
3777393.38      153.50962  (21121308)
        557389.40   3777393.38      148.31744  (21121308)              557409.40
3777393.38      140.34013  (21121308)
        557429.40   3777393.38      136.15811  (23010408)              557449.40
3777393.38      146.80532  (23010408)
        557469.40   3777393.38      155.01633  (23010408)              557489.40
3777393.38      160.59093  (23010408)
        556509.40   3777413.38      835.79188  (19011708)              556529.40
3777413.38      889.86660  (19011708)
        556549.40   3777413.38      809.78151  (19011708)              556569.40
3777413.38      715.30981  (19011608)
        556589.40   3777413.38      514.36422  (19011608)              556609.40
3777413.38      314.46616  (21010508)
        556629.40   3777413.38      631.82822  (21010508)              556649.40
3777413.38      963.57045  (21010508)
        556669.40   3777413.38     1102.47410  (21010508)              556689.40
3777413.38      915.70035  (21010508)
        556709.40   3777413.38      875.91150  (21012908)              556729.40
3777413.38      639.25455  (21012908)
        556749.40   3777413.38      600.90438  (19012408)              556769.40
3777413.38      584.19423  (18122708)
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        556789.40   3777413.38      558.85232  (18123108)               556809.40
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        556829.40   3777413.38      189.77364  (18123108)               556849.40
3777413.38      171.55318  (19112908)
        556869.40   3777413.38      146.64588  (19112908)               556889.40
3777413.38      161.53554  (21012508)
        556909.40   3777413.38      261.09105  (21012508)               556929.40
3777413.38      312.96795  (21012508)
        556949.40   3777413.38      286.32654  (21012508)               556969.40
3777413.38      286.49588  (23010608)
        556989.40   3777413.38      350.36054  (23010608)               557009.40
3777413.38      359.14498  (23010608)
        557029.40   3777413.38      312.85436  (23010608)               557049.40
3777413.38      235.71785  (23010608)
        557069.40   3777413.38      155.21096  (23010608)               557089.40
3777413.38      127.92193  (19120408)
        557109.40   3777413.38      108.29434  (19120408)               557129.40
3777413.38      131.21595  (23010308)
        557149.40   3777413.38      170.61460  (23010308)               557169.40
3777413.38      204.92660  (23010308)
        557189.40   3777413.38      230.86487  (23010308)               557209.40
3777413.38      245.37262  (23010308)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        557229.40   3777413.38      246.37440  (23010308)               557249.40
3777413.38      235.77872  (23010308)
        557269.40   3777413.38      216.19288  (23010308)               557289.40
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3777413.38      190.60964  (23010308)
        557309.40   3777413.38      162.29990  (23010308)                557329.40
3777413.38      155.08951  (19011508)
        557349.40   3777413.38      152.31993  (19011508)                557369.40
3777413.38      145.15335  (19011508)
        557389.40   3777413.38      138.45226  (21121308)                557409.40
3777413.38      137.98581  (21121308)
        557429.40   3777413.38      134.17277  (21121308)                557449.40
3777413.38      128.71541  (21121308)
        557469.40   3777413.38      121.65771  (21121308)                557489.40
3777413.38      120.11168  (23010408)
        556509.40   3777433.38      801.36147  (19011708)                556529.40
3777433.38      720.89732  (19011608)
        556549.40   3777433.38      622.26955  (19011608)                556569.40
3777433.38      434.33843  (19011608)
        556589.40   3777433.38      248.81797  (21010508)                556609.40
3777433.38      512.54477  (21010508)
        556629.40   3777433.38      824.80257  (21010508)                556649.40
3777433.38     1011.24759  (21010508)
        556669.40   3777433.38      923.02713  (21010508)                556689.40
3777433.38      835.98060  (21012908)
        556709.40   3777433.38      698.10215  (21012908)                556729.40
3777433.38      575.09161  (19012408)
        556749.40   3777433.38      500.04307  (19012408)                556769.40
3777433.38      544.58096  (18122708)
        556789.40   3777433.38      488.31369  (18123108)                556809.40
3777433.38      320.38035  (18123108)
        556829.40   3777433.38      148.02722  (18123108)                556849.40
3777433.38      153.91059  (19112908)
        556869.40   3777433.38      134.84151  (19112908)                556889.40
3777433.38      116.86059  (21012508)
        556909.40   3777433.38      207.84822  (21012508)                556929.40
3777433.38      274.08458  (21012508)
        556949.40   3777433.38      279.56474  (21012508)                556969.40
3777433.38      225.95428  (21012508)
        556989.40   3777433.38      284.36184  (23010608)                557009.40
3777433.38      327.47883  (23010608)
        557029.40   3777433.38      319.49502  (23010608)                557049.40
3777433.38      269.69913  (23010608)
        557069.40   3777433.38      198.56469  (23010608)                557089.40
3777433.38      129.39651  (23010608)
        557109.40   3777433.38      115.47529  (19120408)                557129.40
3777433.38       98.42299  (19120408)
        557149.40   3777433.38      104.05183  (23010308)                557169.40
3777433.38      137.39439  (23010308)
        557189.40   3777433.38      169.89745  (23010308)                557209.40
3777433.38      197.03997  (23010308)
        557229.40   3777433.38      214.65535  (23010308)                557249.40
3777433.38      222.96137  (23010308)
        557269.40   3777433.38      220.24369  (23010308)                557289.40
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3777433.38      208.09735  (23010308)
        557309.40   3777433.38      190.00350  (23010308)                557329.40
3777433.38      166.85008  (23010308)
        557349.40   3777433.38      141.74813  (23010308)                557369.40
3777433.38      139.05818  (19011508)
        557389.40   3777433.38      137.63867  (19011508)                557409.40
3777433.38      132.56130  (19011508)
        557429.40   3777433.38      124.13505  (19011508)                557449.40
3777433.38      123.94629  (21121308)
        557469.40   3777433.38      122.09314  (21121308)                557489.40
3777433.38      118.24012  (21121308)
        556509.40   3777453.38      651.72080  (19011608)                556529.40
3777453.38      543.69075  (19011608)
        556549.40   3777453.38      371.66259  (19011608)                556569.40
3777453.38      202.12102  (19011608)
        556589.40   3777453.38      415.94993  (21010508)                556609.40
3777453.38      695.39464  (21010508)
        556629.40   3777453.38      911.12321  (21010508)                556649.40
3777453.38      905.56571  (21010508)
        556669.40   3777453.38      762.08522  (21012908)                556689.40
3777453.38      715.07674  (21012908)
        556709.40   3777453.38      515.34705  (21012908)                556729.40
3777453.38      518.89184  (19012408)
        556749.40   3777453.38      454.69778  (18122708)                556769.40
3777453.38      497.26859  (18122708)
        556789.40   3777453.38      422.13977  (18123108)                556809.40
3777453.38      261.25352  (18123108)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        556789.40   3777473.38      361.70916  (18123108)               556809.40
3777473.38      212.88808  (18123108)
        556829.40   3777473.38      112.12569  (19122609)               556849.40
3777473.38      125.89336  (19112908)
        556869.40   3777473.38      115.33663  (19112908)               556889.40
3777473.38       82.65705  (20112708)
        556909.40   3777473.38      123.77100  (21012508)               556929.40
3777473.38      194.02530  (21012508)
        556949.40   3777473.38      237.20176  (21012508)               556969.40
3777473.38      231.97824  (21012508)
        556989.40   3777473.38      185.25206  (21012508)               557009.40
3777473.38      222.82576  (23010608)
        557029.40   3777473.38      266.77579  (23010608)               557049.40
3777473.38      275.72006  (23010608)
        557069.40   3777473.38      249.90780  (23010608)               557089.40
3777473.38      199.75137  (23010608)
        557109.40   3777473.38      142.90135  (23010608)               557129.40
3777473.38      103.38805  (19120408)
        557149.40   3777473.38       95.83477  (19120408)               557169.40
3777473.38       82.93835  (19120408)
        557189.40   3777473.38       71.90304  (21122708)               557209.40
3777473.38       90.32108  (23010308)
        557229.40   3777473.38      116.01519  (23010308)               557249.40
3777473.38      140.97059  (23010308)
        557269.40   3777473.38      161.59779  (23010308)               557289.40
3777473.38      176.32702  (23010308)
        557309.40   3777473.38      184.10741  (23010308)               557329.40
3777473.38      184.45800  (23010308)
        557349.40   3777473.38      177.66254  (23010308)               557369.40
3777473.38      165.47216  (23010308)
        557389.40   3777473.38      149.19469  (23010308)               557409.40
3777473.38      131.22461  (23010308)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557429.40   3777473.38      113.79902  (19011508)               557449.40
3777473.38      115.56147  (19011508)
        557469.40   3777473.38      114.26021  (19011508)               557489.40
3777473.38      110.66359  (19011508)
        556509.40   3777493.38      273.47764  (19011608)               556529.40
3777493.38      147.08084  (19011608)
        556549.40   3777493.38      276.26349  (21010508)               556569.40
3777493.38      486.71715  (21010508)
        556589.40   3777493.38      698.49440  (21010508)               556609.40
3777493.38      799.35960  (21010508)
        556629.40   3777493.38      707.15509  (21010508)               556649.40
3777493.38      648.07739  (21012908)
        556669.40   3777493.38      589.71230  (21012908)               556689.40
3777493.38      423.51475  (21012908)
        556709.40   3777493.38      448.56858  (19012408)               556729.40
3777493.38      374.10842  (19012408)
        556749.40   3777493.38      424.92055  (18122708)               556769.40
3777493.38      408.78518  (18123108)
        556789.40   3777493.38      308.44055  (18123108)               556809.40
3777493.38      173.18971  (18123108)
        556829.40   3777493.38      101.77793  (19122609)               556849.40
3777493.38      114.40329  (19112908)
        556869.40   3777493.38      106.96663  (19112908)               556889.40
3777493.38       78.72636  (20112708)
        556909.40   3777493.38       93.55070  (21012508)               556929.40
3777493.38      157.76926  (21012508)
        556949.40   3777493.38      209.07519  (21012508)               556969.40
3777493.38      222.18403  (21012508)
        556989.40   3777493.38      194.22830  (21012508)               557009.40
3777493.38      169.82761  (23010608)
        557029.40   3777493.38      223.09780  (23010608)               557049.40
3777493.38      252.98588  (23010608)
        557069.40   3777493.38      251.35790  (23010608)               557089.40
3777493.38      220.29426  (23010608)
        557109.40   3777493.38      173.11129  (23010608)               557129.40
3777493.38      122.08117  (23010608)
        557149.40   3777493.38       94.82133  (19120408)               557169.40
3777493.38       87.90132  (19120408)
        557189.40   3777493.38       76.66285  (19120408)               557209.40
3777493.38       63.58408  (19120408)
        557229.40   3777493.38       73.40471  (23010308)               557249.40
3777493.38       95.90710  (23010308)
        557269.40   3777493.38      118.55381  (23010308)               557289.40
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3777493.38      138.91788  (23010308)
        557309.40   3777493.38      154.93140  (23010308)                557329.40
3777493.38      165.52526  (23010308)
        557349.40   3777493.38      169.85730  (23010308)                557369.40
3777493.38      167.79619  (23010308)
        557389.40   3777493.38      160.44235  (23010308)                557409.40
3777493.38      148.68576  (23010308)
        557429.40   3777493.38      133.29338  (23010308)                557449.40
3777493.38      117.23485  (23010308)
        557469.40   3777493.38      104.37931  (19011508)                557489.40
3777493.38      105.60811  (19011508)
        556509.40   3777513.38      126.19730  (19011608)                556529.40
3777513.38      225.83764  (21010508)
        556549.40   3777513.38      408.72091  (21010508)                556569.40
3777513.38      616.10698  (21010508)
        556589.40   3777513.38      740.36286  (21010508)                556609.40
3777513.38      702.01364  (21010508)
        556629.40   3777513.38      593.63444  (21012908)                556649.40
3777513.38      587.14299  (21012908)
        556669.40   3777513.38      471.05103  (21012908)                556689.40
3777513.38      411.11038  (19012408)
        556709.40   3777513.38      399.97995  (19012408)                556729.40
3777513.38      351.80071  (18122708)
        556749.40   3777513.38      399.78079  (18122708)                556769.40
3777513.38      367.27603  (18123108)
        556789.40   3777513.38      262.60701  (18123108)                556809.40
3777513.38      141.41402  (18123108)
        556829.40   3777513.38       92.75733  (19122609)                556849.40
3777513.38      104.32023  (19112908)
        556869.40   3777513.38       99.40423  (19112908)                556889.40
3777513.38       74.96653  (20112708)
        556909.40   3777513.38       69.83035  (21012508)                556929.40
3777513.38      125.99796  (21012508)
        556949.40   3777513.38      179.77902  (21012508)                556969.40
3777513.38      206.62122  (21012508)
        556989.40   3777513.38      195.66312  (21012508)                557009.40
3777513.38      155.11732  (21012508)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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L0000006 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557029.40	3777513.38	177.04017	(23010608)	557049.40	3777513.38	219.42469	(23010608)
557069.40	3777513.38	237.40964	(23010608)	557089.40	3777513.38	227.24576	(23010608)
557109.40	3777513.38	194.49826	(23010608)	557129.40	3777513.38	149.84682	(23010608)
557149.40	3777513.38	105.04516	(23010608)	557169.40	3777513.38	87.29875	(19120408)
557189.40	3777513.38	81.02182	(19120408)	557209.40	3777513.38	71.35001	(19120408)
557229.40	3777513.38	59.55589	(19120408)	557249.40	3777513.38	63.56316	(21122708)
557269.40	3777513.38	79.46015	(23010308)	557289.40	3777513.38	99.65169	(23010308)
557309.40	3777513.38	119.06816	(23010308)	557329.40	3777513.38	135.67047	(23010308)
557349.40	3777513.38	147.92006	(23010308)	557369.40	3777513.38	154.90735	(23010308)
557389.40	3777513.38	156.70071	(23010308)	557409.40	3777513.38	153.36445	(23010308)
557429.40	3777513.38	145.09439	(23010308)	557449.40	3777513.38	133.67822	(23010308)
557469.40	3777513.38	120.19604	(23010308)	557489.40	3777513.38	105.63360	(23010308)
556509.40	3777533.38	185.72025	(21010508)	556529.40	3777533.38	344.75202	(21010508)
556549.40	3777533.38	530.62116	(21010508)	556569.40	3777533.38	669.26420	(21010508)
556589.40	3777533.38	679.89000	(21010508)	556609.40	3777533.38	548.37752	(21010508)
556629.40	3777533.38	559.51576	(21012908)	556649.40	3777533.38	493.48184	(21012908)
556669.40	3777533.38	352.35590	(21012908)	556689.40	3777533.38	389.82115	(19012408)
556709.40	3777533.38	344.45416	(19012408)	556729.40	3777533.38	350.20097	(18122708)
556749.40	3777533.38	370.28627	(18122708)	556769.40	3777533.38	326.23056	(18123108)

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        556789.40   3777533.38      222.65073  (18123108)                556809.40
3777533.38      115.81245  (18123108)
        556829.40   3777533.38       84.87774  (19122609)                556849.40
3777533.38       95.43538  (19112908)
        556869.40   3777533.38       92.53893  (19112908)                556889.40
3777533.38       71.34638  (20112708)
        556909.40   3777533.38       56.07600  (18022208)                556929.40
3777533.38       99.09349  (21012508)
        556949.40   3777533.38      151.03490  (21012508)                556969.40
3777533.38      186.47594  (21012508)
        556989.40   3777533.38      190.60718  (21012508)                557009.40
3777533.38      163.65503  (21012508)
        557029.40   3777533.38      134.31776  (23010608)                557049.40
3777533.38      180.63438  (23010608)
        557069.40   3777533.38      212.48035  (23010608)                557089.40
3777533.38      220.89185  (23010608)
        557109.40   3777533.38      205.15952  (23010608)                557129.40
3777533.38      171.86823  (23010608)
        557149.40   3777533.38      130.69216  (23010608)                557169.40
3777533.38       90.69802  (23010608)
        557189.40   3777533.38       80.63298  (19120408)                557209.40
3777533.38       75.25457  (19120408)
        557229.40   3777533.38       66.35939  (19120408)                557249.40
3777533.38       56.05946  (19120408)
        557269.40   3777533.38       56.91801  (21122708)                557289.40
3777533.38       65.86769  (23010308)
        557309.40   3777533.38       83.89071  (23010308)                557329.40
3777533.38      101.81420  (23010308)
        557349.40   3777533.38      118.12001  (23010308)                557369.40
3777533.38      131.21362  (23010308)
        557389.40   3777533.38      140.01470  (23010308)                557409.40
3777533.38      144.78950  (23010308)
        557429.40   3777533.38      144.51874  (23010308)                557449.40
3777533.38      140.08684  (23010308)
        557469.40   3777533.38      131.72931  (23010308)                557489.40
3777533.38      120.86850  (23010308)
        556509.40   3777553.38      289.34913  (21010508)                556529.40
3777553.38      459.04408  (21010508)
        556549.40   3777553.38      602.15115  (21010508)                556569.40
3777553.38      649.26989  (21010508)
        556589.40   3777553.38      564.05686  (21010508)                556609.40
3777553.38      519.23536  (21012908)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***
INCLUDING SOURCE(S): L0000001 , L0000002 , L0000003 , L0000004 , L0000005 , L0000006 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556629.40	3777553.38	496.81623	(21012908)	556649.40	3777553.38	394.10803	(21012908)
556669.40	3777553.38	352.36299	(19012408)	556689.40	3777553.38	355.63199	(19012408)
556709.40	3777553.38	287.48280	(19012408)	556729.40	3777553.38	341.35620	(18122708)
556749.40	3777553.38	341.02663	(18123108)	556769.40	3777553.38	286.89380	(18123108)
556789.40	3777553.38	187.82635	(18123108)	556809.40	3777553.38	95.01184	(18123108)
556829.40	3777553.38	77.89304	(19122609)	556849.40	3777553.38	87.58195	(19112908)
556869.40	3777553.38	86.33439	(19112908)	556889.40	3777553.38	67.91352	(20112708)
556909.40	3777553.38	54.94389	(18022208)	556929.40	3777553.38	77.40468	(21012508)
556949.40	3777553.38	124.48013	(21012508)	556969.40	3777553.38	164.50052	(21012508)
556989.40	3777553.38	179.96071	(21012508)	557009.40	3777553.38	166.41150	(21012508)
557029.40	3777553.38	130.51858	(21012508)	557049.40	3777553.38	142.10342	(23010608)
557069.40	3777553.38	180.74162	(23010608)	557089.40	3777553.38	203.16605	(23010608)
557109.40	3777553.38	203.78438	(23010608)	557129.40	3777553.38	184.54335	(23010608)
557149.40	3777553.38	151.65922	(23010608)	557169.40	3777553.38	113.73172	(23010608)
557189.40	3777553.38	78.62106	(23010608)	557209.40	3777553.38	74.87583	(19120408)
557229.40	3777553.38	69.82911	(19120408)	557249.40	3777553.38	62.03525	(19120408)
557269.40	3777553.38	52.75360	(19120408)	557289.40			

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3777553.38       51.12654  (21122708)
        557309.40   3777553.38       56.33413  (21122708)                557329.40
3777553.38       70.51830  (23010308)
        557349.40   3777553.38       86.90707  (23010308)                557369.40
3777553.38      102.46405  (23010308)
        557389.40   3777553.38      115.67542  (23010308)                557409.40
3777553.38      126.05999  (23010308)
        557429.40   3777553.38      132.55971  (23010308)                557449.40
3777553.38      135.06652  (23010308)
        557469.40   3777553.38      133.40213  (23010308)                557489.40
3777553.38      127.85388  (23010308)
        557438.91   3777336.71      220.46708  (23010408)                556615.91
3777136.99     1177.65960  (19011408)
        556586.37   3777056.16      156.49916  (21120708)                556672.35
3776929.14      818.58953  (23011008)
        556692.35   3776929.14      943.56751  (23011008)                556712.35
3776929.14      835.84409  (23011008)
        556732.35   3776929.14      557.76675  (23011008)                556752.35
3776929.14      389.74167  (21120908)
        556772.35   3776929.14      547.44800  (21012208)                556792.35
3776929.14      792.19655  (21012208)
        556812.35   3776929.14      772.20138  (21012208)                556832.35
3776929.14      758.58410  (18010908)
        556852.35   3776929.14      749.31777  (18011608)                556672.35
3776949.14      680.16602  (23011008)
        556692.35   3776949.14      963.96504  (23011008)                556712.35
3776949.14      988.91593  (23011008)
        556732.35   3776949.14      789.88860  (23011008)                556752.35
3776949.14      465.06104  (21120908)
        556772.35   3776949.14      519.27029  (21012208)                556792.35
3776949.14      827.74248  (21012208)
        556812.35   3776949.14      849.96254  (21012208)                556832.35
3776949.14      822.24384  (18010908)
        556852.35   3776949.14      802.81431  (18011608)                556672.35
3776969.14      475.37419  (23011008)
        556692.35   3776969.14      878.80472  (23011008)                556712.35
3776969.14     1083.14438  (23011008)
        556732.35   3776969.14     1001.17021  (23011008)                556752.35
3776969.14      709.57988  (23011008)
        556772.35   3776969.14      482.41028  (21012208)                556792.35
3776969.14      857.50894  (21012208)
        556812.35   3776969.14      928.54914  (21012208)                556832.35
3776969.14      894.00116  (18010908)
        556852.35   3776969.14      892.14693  (21123008)                556672.35
3776989.14      267.24475  (23011008)
        556692.35   3776989.14      681.55105  (23011008)                556712.35
3776989.14     1081.82898  (23011008)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
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                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                L0000006   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
        556692.35   3777049.14      352.17967  (21120708)              556712.35
3777049.14      357.31471  (23011008)
        556732.35   3777049.14      992.10116  (23011008)              556752.35
3777049.14     1498.42713  (23011008)
        556772.35   3777049.14     1476.07391  (23011008)              556792.35
3777049.14     1230.93495  (23011008)
        556812.35   3777049.14     1292.63959  (21012208)              556832.35
3777049.14     1275.71011  (18010908)
        556852.35   3777049.14     1736.49367  (20010108)              556927.54
3776959.53      961.44929  (23122208)
        556947.54   3776959.53      970.15213  (19122708)              556967.54
3776959.53      902.66845  (19122708)
        556987.54   3776959.53      555.45086  (19122508)              557007.54
3776959.53      279.83653  (19122508)
        557027.54   3776959.53      173.46351  (20012108)              557047.54
3776959.53      171.58553  (20012108)
        557067.54   3776959.53      154.62391  (20012108)              557087.54
3776959.53      147.25921  (18120608)
        556927.54   3776979.53      938.30000  (19122708)              556947.54
3776979.53     1079.64917  (19122708)
        556967.54   3776979.53      778.81861  (19122708)              556987.54
3776979.53      416.01089  (19122508)
        557007.54   3776979.53      197.32638  (20012108)              557027.54
3776979.53      196.14391  (20012108)
        557047.54   3776979.53      175.55877  (20012108)              557067.54
3776979.53      176.88858  (18120608)
        557087.54   3776979.53      197.21723  (18120608)              556927.54
3776999.53     1174.32482  (19122708)
        556947.54   3776999.53     1057.10131  (19122708)              556967.54
3776999.53      599.03817  (19122508)
        556987.54   3776999.53      255.35448  (19122508)              557007.54
3776999.53      227.32446  (20012108)
        557027.54   3776999.53      201.86348  (20012108)              557047.54
3776999.53      214.79639  (18120608)
        557067.54   3776999.53      233.82587  (18120608)              557087.54
3776999.53      234.73359  (18120608)
        556927.54   3777019.53     1311.51062  (19122708)              556947.54
3777019.53      883.64305  (19122708)
        556967.54   3777019.53      410.17036  (19122508)              556987.54
3777019.53      267.96031  (20012108)
        557007.54   3777019.53      235.74002  (20012108)              557027.54
3777019.53      263.99562  (18120608)
        557047.54   3777019.53      278.80581  (18120608)              557067.54
3777019.53      269.76935  (18120608)
        557087.54   3777019.53      242.69261  (18120608)              556927.54
3777039.53     1268.21970  (19122708)
        556947.54   3777039.53      640.27179  (19122508)              556967.54
3777039.53      322.68922  (20012108)
        556987.54   3777039.53      289.42643  (18120608)              557007.54
3777039.53      328.88552  (18120608)
```

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                 L0000006   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
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```
3777211.57      897.86205  (23010408)
        557043.57   3777211.57      736.67196  (23010408)              557063.57
3777211.57      592.29090  (23010408)
        557083.57   3777211.57      464.23391  (23010408)              557023.57
3777231.57      904.68638  (23010408)
        557043.57   3777231.57      848.30080  (23010408)              557063.57
3777231.57      769.52613  (23010408)
        557083.57   3777231.57      662.02139  (23010408)              557023.57
3777251.57      612.72161  (23010408)
        557043.57   3777251.57      651.61903  (23010408)              557063.57
3777251.57      667.84967  (23010408)
        557083.57   3777251.57      636.39008  (23010408)              556249.05
3776972.85       70.14239  (20121008)
        556269.05   3776972.85       56.70047  (20121008)              556229.05
3776992.85      155.11715  (20121008)
        556249.05   3776992.85      139.63353  (20121008)              556269.05
3776992.85      123.31842  (20121008)
        556289.05   3776992.85      105.89041  (20121008)              556309.05
3776992.85       88.49796  (20121008)
        556329.05   3776992.85       70.39052  (20121008)              556209.05
3777012.85      228.41195  (20121008)
        556229.05   3777012.85      224.33739  (20121008)              556249.05
3777012.85      217.38692  (20121008)
        556269.05   3777012.85      207.11372  (20121008)              556289.05
3777012.85      193.50384  (20121008)
        556309.05   3777012.85      176.27372  (20121008)              556329.05
3777012.85      157.26560  (20121008)
        556209.05   3777032.85      244.44044  (20121008)              556229.05
3777032.85      255.08050  (20121008)
        556249.05   3777032.85      263.16087  (20121008)              556269.05
3777032.85      267.95543  (20121008)
        556289.05   3777032.85      269.08603  (20121008)              556309.05
3777032.85      265.53164  (20121008)
        556209.05   3777052.85      206.70550  (20121008)              556229.05
3777052.85      226.98668  (20121008)
        556249.05   3777052.85      247.54738  (20121008)              556269.05
3777052.85      267.18096  (20121008)
        556289.05   3777052.85      285.37503  (20121008)              556309.05
3777052.85      301.23245  (20121008)
        556249.05   3777072.85      201.21674  (19011408)              556269.05
3777072.85      204.38552  (20121008)
        556289.05   3777072.85      230.37876  (20121008)              556269.05
3777092.85      340.91935  (19011408)
        556441.69   3776927.49      197.75398  (21120708)              556461.69
3776927.49      213.65835  (21120708)
        556481.69   3776927.49      209.52032  (21120708)              556421.69
3776947.49      116.61304  (21120708)
        556441.69   3776947.49      158.02431  (21120708)              556461.69
3776947.49      197.86546  (21120708)
        556481.69   3776947.49      225.92180  (21120708)              556401.69
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3776967.49   38.70791 (21122409)
        556421.69   3776967.49   63.76364 (21120708)   556441.69
3776967.49   98.94917 (21120708)
        556461.69   3776967.49   143.54690 (21120708)   556481.69
3776967.49   191.64235 (21120708)
        556401.69   3776987.49   44.54214 (21122409)   556421.69
3776987.49   46.26563 (21122409)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                L0000006   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556441.69   3776987.49   47.92488 (21120708)   556461.69
3776987.49   80.57413 (21120708)
        556481.69   3776987.49   125.89177 (21120708)   556421.69
3777007.49   46.93370 (21122409)
        556441.69   3777007.49   51.73815 (21122409)   556461.69
3777007.49   54.73883 (21122409)
        556481.69   3777007.49   61.98814 (21120708)   556441.69
3777027.49   97.88975 (20121008)
        556461.69   3777027.49   72.80105 (20121008)   556481.69
3777027.49   60.41944 (21122409)
        556251.24   3777154.95   465.52810 (19011408)   556261.28
3777141.20   534.36073 (19011408)
        556264.98   3777168.16   393.44126 (19011408)   556279.25
3777151.77   519.74554 (19011408)
        556202.60   3777113.45   451.73015 (19011408)   556220.05
3777109.75   445.29215 (19011408)
        556187.53   3777090.19   328.58550 (19011408)   556164.27
3777121.38   445.31300 (19011408)

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        557510.26   3776508.23       83.97695  (20012108)              557530.26
3776508.23       75.48287  (20012108)
        557550.26   3776508.23       65.34801  (20012108)              557570.26
3776508.23       66.63790  (21121508)
        557590.26   3776508.23       67.48349  (21121508)              557610.26
3776508.23       66.71464  (21121508)
        557630.26   3776508.23       63.77539  (21121508)              557650.26
3776508.23       59.56628  (21121508)
        557670.26   3776508.23       53.85614  (21121508)              557690.26
3776508.23       56.10326  (18120608)
        557510.26   3776528.23       76.87505  (20012108)              557530.26
3776528.23       66.46148  (20012108)
        557550.26   3776528.23       68.21322  (21121508)              557570.26
3776528.23       68.08393  (21121508)
        557590.26   3776528.23       66.62728  (21121508)              557610.26
3776528.23       63.48973  (21121508)
        557630.26   3776528.23       59.06306  (21121508)              557650.26
3776528.23       53.67116  (21121508)
        557670.26   3776528.23       60.97657  (18120608)              557690.26
3776528.23       69.16951  (18120608)
        557510.26   3776548.23       67.06669  (20012108)              557530.26
3776548.23       69.36271  (21121508)
        557550.26   3776548.23       68.27203  (21121508)              557570.26
3776548.23       65.60172  (21121508)
        557590.26   3776548.23       62.35721  (21121508)              557610.26
3776548.23       57.54931  (21121508)
        557630.26   3776548.23       56.28061  (18120608)              557650.26
3776548.23       65.39987  (18120608)
        557670.26   3776548.23       73.09949  (18120608)              557690.26
3776548.23       79.67533  (18120608)
        557510.26   3776568.23       69.11193  (21121508)              557530.26
3776568.23       68.83792  (21121508)
        557550.26   3776568.23       65.61947  (21121508)              557570.26
3776568.23       60.65892  (21121508)
        557590.26   3776568.23       55.74015  (21121508)              557610.26
3776568.23       59.77434  (18120608)
        557630.26   3776568.23       67.98500  (18120608)              557650.26
3776568.23       75.84868  (18120608)
        557670.26   3776568.23       81.13334  (18120608)              557690.26
3776568.23       84.45899  (18120608)
        557510.26   3776588.23       67.51366  (21121508)              557530.26
3776588.23       65.18320  (21121508)
        557550.26   3776588.23       60.11170  (21121508)              557570.26
3776588.23       54.51984  (18120608)
        557590.26   3776588.23       62.05352  (18120608)              557610.26
3776588.23       68.98981  (18120608)
        557630.26   3776588.23       75.88040  (18120608)              557650.26
3776588.23       81.13952  (18120608)
        557670.26   3776588.23       84.16599  (18120608)              557690.26
3776588.23       85.28941  (18120608)
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        557510.26   3776608.23       62.35230  (21121508)               557530.26
3776608.23       58.43766  (21121508)
        557550.26   3776608.23       58.01793  (18120608)               557570.26
3776608.23       64.38007  (18120608)
        557590.26   3776608.23       68.94819  (18120608)               557610.26
3776608.23       73.31398  (18120608)
        557630.26   3776608.23       77.78389  (18120608)               557650.26
3776608.23       80.03275  (18120608)
        557670.26   3776608.23       79.91016  (18120608)               557690.26
3776608.23       78.02024  (18120608)
        557510.26   3776628.23       54.83670  (21121508)               557530.26
3776628.23       60.15217  (18120608)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  98
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557550.26   3776628.23       64.95038  (18120608)               557570.26
3776628.23       71.03043  (18120608)
        557590.26   3776628.23       70.32092  (18120608)               557610.26
3776628.23       71.78909  (18120608)
        557630.26   3776628.23       72.81385  (18120608)               557650.26
3776628.23       73.62466  (18120608)
        557670.26   3776628.23       71.45429  (18120608)               557690.26
3776628.23       68.37144  (18120608)
        557510.26   3776648.23       59.41049  (18120608)               557530.26
3776648.23       63.29186  (18120608)
        557550.26   3776648.23       64.29540  (18120608)               557570.26
3776648.23       62.94843  (18120608)
        557590.26   3776648.23       63.96840  (18120608)               557610.26
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3776648.23       62.30645  (18120608)
        557630.26   3776648.23       62.30348  (18120608)                557650.26
3776648.23       62.05214  (18120608)
        557670.26   3776648.23       58.44846  (18120608)                557690.26
3776648.23       54.96443  (18120608)
        557510.26   3776668.23       57.41952  (18120608)                557530.26
3776668.23       58.89841  (18120608)
        557550.26   3776668.23       58.37816  (18120608)                557570.26
3776668.23       57.06130  (18120608)
        557590.26   3776668.23       57.15808  (18120608)                557610.26
3776668.23       53.62173  (18120608)
        557630.26   3776668.23       51.32228  (18120608)                557650.26
3776668.23       49.30661  (18120608)
        557670.26   3776668.23       46.06214  (18120608)                557690.26
3776668.23       42.29953  (18120608)
        557510.26   3776688.23       57.75175  (18120608)                557530.26
3776688.23       57.62411  (18120608)
        557550.26   3776688.23       56.78885  (18120608)                557570.26
3776688.23       55.29560  (18120608)
        557590.26   3776688.23       52.93709  (18120608)                557610.26
3776688.23       49.89483  (18120608)
        557630.26   3776688.23       46.35332  (18120608)                557650.26
3776688.23       42.49660  (18120608)
        557670.26   3776688.23       38.49560  (18120608)                557690.26
3776688.23       34.49177  (18120608)
        556172.49   3776517.81       17.42990  (23122209)                556192.49
3776517.81       14.62735  (18020109)
        556212.49   3776517.81       15.48552  (18020109)                556232.49
3776517.81       15.80253  (18020109)
        556252.49   3776517.81       15.51067  (18020109)                556272.49
3776517.81       14.60938  (18020109)
        556292.49   3776517.81       13.17503  (18020109)                556312.49
3776517.81       11.34833  (18020109)
        556332.49   3776517.81        9.76218  (19120415)                556352.49
3776517.81       27.91501  (23011008)
        556372.49   3776517.81       69.93692  (23011008)                556392.49
3776517.81      145.89233  (23011008)
        556412.49   3776517.81      235.13463  (23011008)                556432.49
3776517.81      299.48986  (23011008)
        556452.49   3776517.81      304.80256  (23011008)                556472.49
3776517.81      256.11611  (23011008)
        556492.49   3776517.81      170.50271  (23011008)                556172.49
3776537.81       25.52616  (23122209)
        556192.49   3776537.81       18.43160  (23122209)                556212.49
3776537.81       14.95916  (18020109)
        556232.49   3776537.81       15.82966  (18020109)                556252.49
3776537.81       16.12191  (18020109)
        556272.49   3776537.81       15.76616  (18020109)                556292.49
3776537.81       14.76736  (18020109)
        556312.49   3776537.81       13.21699  (18020109)                556332.49
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3776537.81       11.27453  (18020109)
        556352.49   3776537.81       13.83200  (23011008)                556372.49
3776537.81       40.73288  (23011008)
        556392.49   3776537.81       96.01623  (23011008)                556412.49
3776537.81      184.02200  (23011008)
        556432.49   3776537.81      273.21854  (23011008)                556452.49
3776537.81      317.28656  (23011008)
        556472.49   3776537.81      303.36745  (23011008)                556492.49
3776537.81      232.08332  (23011008)
        556332.49   3776557.81       13.24823  (18020109)                556352.49
3776557.81       11.18191  (18020109)
        556372.49   3776557.81       21.35358  (23011008)                556392.49
3776557.81       59.30137  (23011008)
        556412.49   3776557.81      133.28356  (23011008)                556432.49
3776557.81      229.07715  (23011008)
        556452.49   3776557.81      306.75965  (23011008)                556472.49
3776557.81      332.39112  (23011008)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE  99
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556492.49   3776557.81      291.13508  (23011008)                556332.49
3776577.81       15.07597  (18020109)
        556352.49   3776577.81       13.26727  (18020109)                556372.49
3776577.81       11.40126  (19120415)
        556392.49   3776577.81       33.14931  (23011008)                556412.49
3776577.81       86.99573  (23011008)
        556432.49   3776577.81      174.35273  (23011008)                556452.49
3776577.81      274.22450  (23011008)
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        556472.49   3776577.81      341.16972  (23011008)                556492.49
3776577.81      338.06839  (23011008)
        556332.49   3776597.81       16.57290  (18020109)                556352.49
3776597.81       15.22791  (18020109)
        556372.49   3776597.81       13.27488  (18020109)                556392.49
3776597.81       15.67314  (23011008)
        556412.49   3776597.81       50.03883  (23011008)                556432.49
3776597.81      119.21620  (23011008)
        556452.49   3776597.81      218.60223  (23011008)                556472.49
3776597.81      315.79014  (23011008)
        556492.49   3776597.81      363.04058  (23011008)                556252.49
3776617.81       31.86571  (23122209)
        556272.49   3776617.81       23.56691  (23122209)                556292.49
3776617.81       16.48062  (18020109)
        556312.49   3776617.81       17.40148  (18020109)                556332.49
3776617.81       17.55463  (18020109)
        556352.49   3776617.81       16.86363  (18020109)                556372.49
3776617.81       15.38015  (18020109)
        556392.49   3776617.81       13.27167  (18020109)                556412.49
3776617.81       25.99881  (23011008)
        556432.49   3776617.81       72.90018  (23011008)                556452.49
3776617.81      161.76152  (23011008)
        556472.49   3776617.81      268.93654  (23011008)                556492.49
3776617.81      359.16373  (23011008)
        556252.49   3776637.81       40.66240  (23122209)                556272.49
3776637.81       33.84986  (23122209)
        556292.49   3776637.81       25.22250  (23122209)                556312.49
3776637.81       16.92794  (18020109)
        556332.49   3776637.81       17.86257  (18020109)                556352.49
3776637.81       17.96787  (18020109)
        556372.49   3776637.81       17.17017  (18020109)                556392.49
3776637.81       15.53489  (18020109)
        556412.49   3776637.81       13.55811  (19120415)                556432.49
3776637.81       39.60291  (23011008)
        556452.49   3776637.81      103.91010  (23011008)                556472.49
3776637.81      210.03105  (23011008)
        556492.49   3776637.81      325.18623  (23011008)                556252.49
3776657.81       45.72845  (23122209)
        556272.49   3776657.81       42.81156  (23122209)                556292.49
3776657.81       36.04018  (23122209)
        556312.49   3776657.81       27.07127  (23122209)                556332.49
3776657.81       17.99584  (23122209)
        556352.49   3776657.81       18.36273  (18020109)                556372.49
3776657.81       18.41488  (18020109)
        556392.49   3776657.81       17.49914  (18020109)                556412.49
3776657.81       15.69534  (18020109)
        556432.49   3776657.81       18.58481  (23011008)                556452.49
3776657.81       59.27103  (23011008)
        556472.49   3776657.81      144.23706  (23011008)                556492.49
3776657.81      267.10595  (23011008)
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        556252.49   3776677.81       45.10751  (23122209)                556272.49
3776677.81       47.54118  (23122209)
        556292.49   3776677.81       45.16962  (23122209)                556312.49
3776677.81       38.47595  (23122209)
        556332.49   3776677.81       29.16411  (23122209)                556352.49
3776677.81       19.48729  (23122209)
        556372.49   3776677.81       19.40803  (21122410)                556392.49
3776677.81       18.90682  (18020109)
        556412.49   3776677.81       17.85586  (18020109)                556432.49
3776677.81       15.86589  (18020109)
        556452.49   3776677.81       29.33426  (23011008)                556472.49
3776677.81       87.78977  (23011008)
        556492.49   3776677.81      196.55491  (23011008)                556252.49
3776697.81       48.36055  (19020508)
        556272.49   3776697.81       46.07797  (23122209)                556372.49
3776697.81       21.18030  (23122209)
        556392.49   3776697.81       20.77712  (21122410)                556412.49
3776697.81       19.45206  (18020109)
        556432.49   3776697.81       18.24997  (18020109)                556452.49
3776697.81       16.39323  (19120415)
        556472.49   3776697.81       46.10591  (23011008)                556492.49
3776697.81      127.43267  (23011008)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 100
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                L0000006    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        556252.49   3776717.81       52.60743  (19020508)                556272.49
3776717.81       52.24209  (19020508)
        556372.49   3776717.81       34.19313  (23122209)                556392.49
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3776717.81       23.10495  (23122209)
        556412.49   3776717.81       22.31102  (21122410)                556432.49
3776717.81       20.62635  (21122410)
        556452.49   3776717.81       18.68762  (18020109)                556472.49
3776717.81       21.94478  (23011008)
        556492.49   3776717.81       71.94082  (23011008)                556267.40
3776875.81       47.40485  (21120708)
        556239.03   3776853.02       52.57426  (21120708)                556178.76
3776751.21      113.96967  (21120708)
        556154.45   3776774.51       79.44327  (21120708)                556119.50
3776705.11      103.66293  (21120708)
        556146.51   3777267.93       25.28663  (20030908)                556151.00
3777234.88       32.81154  (19011408)
        556144.93   3777179.58      223.33687  (19011408)                556205.18
3777236.46       32.28087  (19011408)
        556218.00   3777200.04      145.12092  (19011408)                556774.37
3777347.57      862.82543  (19012408)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556521.71   3777341.57      343.64066  (19011708)                556539.90
3777344.94      365.40462  (21010508)
        556591.78   3777345.39      344.23179  (21012908)                556630.62
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3777349.66      311.71579  (19011708)
        556684.29   3777349.43      328.88638  (19011708)              556905.58
3777351.19      334.10284  (23010608)
        556920.93   3777350.82      420.89549  (23010608)              556942.87
3777350.09      484.36242  (23010608)
        556996.26   3777348.26      469.53180  (23010308)              557096.81
3777357.77      252.26682  (23010408)
        557115.83   3777363.62      233.59363  (23010408)              557129.36
3777361.43      241.88022  (23010408)
        557230.65   3777363.99      209.11043  (23010408)              556466.22
3776816.07      185.36356  (23011008)
        556407.87   3776826.19       88.10956  (23011008)              556381.07
3776807.14       58.65066  (23011008)
        556404.29   3776771.52      131.92335  (23011008)              556465.21
3776739.51      154.87384  (23011008)
        556396.10   3776739.93      137.96873  (23011008)              556323.99
3777265.43      208.04889  (18122608)
        556330.60   3777233.99      295.76763  (19011408)              556321.08
3777200.43      424.07265  (19011408)
        556275.11   3777267.81      153.30916  (18122608)              556278.28
3777233.46      256.42635  (19011408)
        556509.40   3777373.38      282.72184  (21010508)              556529.40
3777373.38      333.29600  (21010508)
        556549.40   3777373.38      341.16211  (21010508)              556569.40
3777373.38      309.68697  (21010508)
        556589.40   3777373.38      283.96308  (21012908)              556609.40
3777373.38      281.77153  (19011708)
        556629.40   3777373.38      289.21245  (19011708)              556649.40
3777373.38      294.41314  (19011708)
        556669.40   3777373.38      300.21221  (19011708)              556689.40
3777373.38      307.84180  (19011708)
        556709.40   3777373.38      319.58763  (19011708)              556729.40
3777373.38      336.88285  (19011708)
        556749.40   3777373.38      355.71757  (19011708)              556769.40
3777373.38      368.17961  (19011708)
        556789.40   3777373.38      404.79411  (21010508)              556809.40
3777373.38      437.52515  (21010508)
        556829.40   3777373.38      425.66864  (21010508)              556849.40
3777373.38      392.48772  (21012908)
        556869.40   3777373.38      324.16402  (18123108)              556889.40
3777373.38      266.74561  (18123108)
        556909.40   3777373.38      256.04207  (23010608)              556929.40
3777373.38      323.73998  (23010608)
        556949.40   3777373.38      367.41876  (23010608)              556969.40
3777373.38      348.17430  (23010608)
        556989.40   3777373.38      291.62587  (23010308)              557009.40
3777373.38      328.52915  (23010308)
        557029.40   3777373.38      339.13429  (23010308)              557049.40
3777373.38      326.20042  (23010308)
        557069.40   3777373.38      298.05201  (23010308)              557089.40
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3777373.38      263.97708  (23010308)
        557109.40   3777373.38      228.62112  (23010308)                557129.40
3777373.38      202.99378  (23010408)
        557149.40   3777373.38      207.87610  (23010408)                557169.40
3777373.38      209.52410  (23010408)
        557189.40   3777373.38      208.95795  (23010408)                557209.40
3777373.38      205.96558  (23010408)
        557229.40   3777373.38      200.72654  (23010408)                557249.40
3777373.38      194.02022  (23010408)
        557269.40   3777373.38      186.27962  (23010408)                557289.40
3777373.38      178.56732  (23010408)
        557309.40   3777373.38      170.67102  (23010408)                557329.40
3777373.38      161.84080  (23010408)
        557349.40   3777373.38      153.76897  (23010408)                557369.40
3777373.38      145.38807  (23010408)
        557389.40   3777373.38      137.22123  (23010408)                557409.40
3777373.38      129.31467  (23010408)
        557429.40   3777373.38      121.39053  (23010408)                557449.40
3777373.38      114.21115  (23010408)
        557469.40   3777373.38      107.12857  (23010408)                557489.40
3777373.38       99.90299  (23010408)
        556509.40   3777393.38      292.83350  (21010508)                556529.40
3777393.38      311.80276  (21010508)
        556549.40   3777393.38      297.16876  (21010508)                556569.40
3777393.38      264.40558  (21012908)
        556589.40   3777393.38      261.98224  (19011708)                556609.40
3777393.38      268.17289  (19011708)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556629.40	3777393.38	274.38566	(19011708)	556649.40	3777393.38	279.36138	(19011708)
556669.40	3777393.38	286.76699	(19011708)	556689.40	3777393.38	297.48614	(19011708)
556709.40	3777393.38	310.34161	(19011708)	556729.40	3777393.38	320.88212	(19011708)
556749.40	3777393.38	321.50620	(21010508)	556769.40	3777393.38	358.46099	(21010508)
556789.40	3777393.38	389.48129	(21010508)	556809.40	3777393.38	390.26529	(21010508)
556829.40	3777393.38	362.23468	(21012908)	556849.40	3777393.38	304.76797	(21012908)
556869.40	3777393.38	267.59572	(18123108)	556889.40	3777393.38	213.20009	(18123108)
556909.40	3777393.38	206.71626	(23010608)	556929.40	3777393.38	251.89716	(23010608)
556949.40	3777393.38	293.17962	(23010608)	556969.40	3777393.38	304.03181	(23010608)
556989.40	3777393.38	271.23625	(23010608)	557009.40	3777393.38	232.85833	(23010308)
557029.40	3777393.38	262.06995	(23010308)	557049.40	3777393.38	275.41785	(23010308)
557069.40	3777393.38	273.22711	(23010308)	557089.40	3777393.38	259.27776	(23010308)
557109.40	3777393.38	238.21851	(23010308)	557129.40	3777393.38	212.61269	(23010308)
557149.40	3777393.38	187.36606	(23010308)	557169.40	3777393.38	162.43844	(23010308)
557189.40	3777393.38	164.95925	(23010408)	557209.40	3777393.38	169.39147	(23010408)
557229.40	3777393.38	171.40055	(23010408)	557249.40	3777393.38	170.72332	(23010408)
557269.40	3777393.38	168.83470	(23010408)	557289.40	3777393.38	165.53370	(23010408)
557309.40	3777393.38	160.75059	(23010408)	557329.40	3777393.38	156.40286	(23010408)
557349.40	3777393.38	151.03810	(23010408)	557369.40	3777393.38	145.38490	(23010408)
557389.40	3777393.38	139.42427	(23010408)	557409.40	3777393.38	132.97162	(23010408)
557429.40	3777393.38	126.65901	(23010408)	557449.40	3777393.38	120.59390	(23010408)
557469.40	3777393.38	114.21768	(23010408)	557489.40			

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        556509.40   3777413.38      283.60740  (21010508)                556529.40
3777413.38      282.31281  (21010508)
        556549.40   3777413.38      261.01523  (21010508)                556569.40
3777413.38      245.99571  (19011708)
        556589.40   3777413.38      251.55742  (19011708)                556609.40
3777413.38      256.59663  (19011708)
        556629.40   3777413.38      262.27972  (19011708)                556649.40
3777413.38      268.40919  (19011708)
        556669.40   3777413.38      276.53895  (19011708)                556689.40
3777413.38      284.40811  (19011708)
        556709.40   3777413.38      287.70451  (19011708)                556729.40
3777413.38      291.54300  (21010508)
        556749.40   3777413.38      321.37810  (21010508)                556769.40
3777413.38      348.95736  (21010508)
        556789.40   3777413.38      355.76604  (21010508)                556809.40
3777413.38      329.15644  (21010508)
        556829.40   3777413.38      296.48420  (21012908)                556849.40
3777413.38      243.45912  (18122708)
        556869.40   3777413.38      225.19863  (18123108)                556889.40
3777413.38      171.87541  (18123108)
        556909.40   3777413.38      175.60883  (23010608)                556929.40
3777413.38      206.09239  (23010608)
        556949.40   3777413.38      239.17586  (23010608)                556969.40
3777413.38      259.62934  (23010608)
        556989.40   3777413.38      251.80733  (23010608)                557009.40
3777413.38      217.17235  (23010608)
        557029.40   3777413.38      190.29112  (23010308)                557049.40
3777413.38      214.54242  (23010308)
        557069.40   3777413.38      228.67533  (23010308)                557089.40
3777413.38      231.95001  (23010308)
        557109.40   3777413.38      226.33122  (23010308)                557129.40
3777413.38      212.56123  (23010308)
        557149.40   3777413.38      196.27467  (23010308)                557169.40
3777413.38      176.79212  (23010308)
        557189.40   3777413.38      157.36031  (23010308)                557209.40
3777413.38      138.72886  (23010308)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE 103
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
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                L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557229.40   3777413.38      134.51865  (23010408)               557249.40
3777413.38      138.98559  (23010408)
        557269.40   3777413.38      141.90371  (23010408)               557289.40
3777413.38      143.23737  (23010408)
        557309.40   3777413.38      143.18677  (23010408)               557329.40
3777413.38      141.76857  (23010408)
        557349.40   3777413.38      140.20984  (23010408)               557369.40
3777413.38      137.01819  (23010408)
        557389.40   3777413.38      133.95362  (23010408)               557409.40
3777413.38      130.23309  (23010408)
        557429.40   3777413.38      125.38690  (23010408)               557449.40
3777413.38      120.95035  (23010408)
        557469.40   3777413.38      116.49860  (23010408)               557489.40
3777413.38      111.35092  (23010408)
        556509.40   3777433.38      264.69361  (21010508)               556529.40
3777433.38      252.04260  (21010508)
        556549.40   3777433.38      230.76300  (19011708)               556569.40
3777433.38      235.45582  (19011708)
        556589.40   3777433.38      241.06211  (19011708)               556609.40
3777433.38      246.19928  (19011708)
        556629.40   3777433.38      251.58227  (19011708)               556649.40
3777433.38      256.69497  (19011708)
        556669.40   3777433.38      259.72670  (19011708)               556689.40
3777433.38      257.35149  (19011708)
        556709.40   3777433.38      267.23483  (21010508)               556729.40
3777433.38      292.32130  (21010508)
        556749.40   3777433.38      314.91840  (21010508)               556769.40
3777433.38      325.39598  (21010508)
        556789.40   3777433.38      308.28895  (21010508)               556809.40
3777433.38      280.09531  (21012908)
        556829.40   3777433.38      233.63042  (21012908)               556849.40
3777433.38      212.25601  (18122708)
        556869.40   3777433.38      189.10265  (18123108)               556889.40
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3777433.38      140.13995  (23010608)
        556909.40   3777433.38      152.88586  (23010608)              556929.40
3777433.38      173.33728  (23010608)
        556949.40   3777433.38      199.79182  (23010608)              556969.40
3777433.38      221.05874  (23010608)
        556989.40   3777433.38      226.02832  (23010608)              557009.40
3777433.38      211.33113  (23010608)
        557029.40   3777433.38      178.43302  (23010608)              557049.40
3777433.38      159.75774  (23010308)
        557069.40   3777433.38      179.78080  (23010308)              557089.40
3777433.38      193.11724  (23010308)
        557109.40   3777433.38      199.21725  (23010308)              557129.40
3777433.38      197.38242  (23010308)
        557149.40   3777433.38      190.68659  (23010308)              557169.40
3777433.38      178.88470  (23010308)
        557189.40   3777433.38      165.38351  (23010308)              557209.40
3777433.38      150.56712  (23010308)
        557229.40   3777433.38      134.77577  (23010308)              557249.40
3777433.38      120.04421  (23010308)
        557269.40   3777433.38      111.23895  (23010408)              557289.40
3777433.38      115.57259  (23010408)
        557309.40   3777433.38      119.31518  (23010408)              557329.40
3777433.38      121.19070  (23010408)
        557349.40   3777433.38      121.63557  (23010408)              557369.40
3777433.38      121.91640  (23010408)
        557389.40   3777433.38      122.16234  (23010408)              557409.40
3777433.38      121.05925  (23010408)
        557429.40   3777433.38      118.33262  (23010408)              557449.40
3777433.38      115.92892  (23010408)
        557469.40   3777433.38      113.03187  (23010408)              557489.40
3777433.38      109.80399  (23010408)
        556509.40   3777453.38      241.53031  (21010508)              556529.40
3777453.38      225.59268  (21010508)
        556549.40   3777453.38      222.83312  (19011708)              556569.40
3777453.38      226.66198  (19011708)
        556589.40   3777453.38      231.11982  (19011708)              556609.40
3777453.38      234.71814  (19011708)
        556629.40   3777453.38      237.59590  (19011708)              556649.40
3777453.38      236.72963  (19011708)
        556669.40   3777453.38      229.65819  (19011708)              556689.40
3777453.38      246.41010  (21010508)
        556709.40   3777453.38      266.53444  (21010508)              556729.40
3777453.38      287.26365  (21010508)
        556749.40   3777453.38      298.09173  (21010508)              556769.40
3777453.38      288.85931  (21010508)
        556789.40   3777453.38      261.72130  (21012908)              556809.40
3777453.38      231.17569  (21012908)
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
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*** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S):   L0000059   , L0000060 , L0000061   , L0000062   , L0000063   ,
L0000064   , L0000065   , L0000066   , L0000067   , L0000068 , L0000069   , L0000070   , L0000045   ,
L0000046   , L0000047   , L0000048   , L0000049   , L0000050 , L0000051   , L0000052   , L0000053   ,
L0000054   , L0000055   , L0000056   , L0000057   , L0000058 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556829.40	3777453.38	191.69144	(18122708)	556849.40	3777453.38	186.94089	(18123108)
556869.40	3777453.38	160.96787	(18123108)	556889.40	3777453.38	123.92238	(23010608)
556909.40	3777453.38	134.72746	(23010608)	556929.40	3777453.38	149.35004	(23010608)
556949.40	3777453.38	169.54816	(23010608)	556969.40	3777453.38	189.38595	(23010608)
556989.40	3777453.38	200.43985	(23010608)	557009.40	3777453.38	196.67143	(23010608)
557029.40	3777453.38	177.96003	(23010608)	557049.40	3777453.38	148.94640	(23010608)
557069.40	3777453.38	135.41029	(23010308)	557089.40	3777453.38	152.61152	(23010308)
557109.40	3777453.38	165.37718	(23010308)	557129.40	3777453.38	172.17396	(23010308)
557149.40	3777453.38	173.97107	(23010308)	557169.40	3777453.38	169.91146	(23010308)
557189.40	3777453.38	163.07737	(23010308)	557209.40	3777453.38	153.79557	(23010308)
557229.40	3777453.38	142.04475	(23010308)	557249.40	3777453.38	130.15159	(23010308)
557269.40	3777453.38	117.52237	(23010308)	557289.40			

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3777453.38      105.14569  (23010308)
        557309.40   3777453.38       95.71210  (21121308)                557329.40
3777453.38       97.68808  (23010408)
        557349.40   3777453.38      101.18701  (23010408)                557369.40
3777453.38      103.22679  (23010408)
        557389.40   3777453.38      105.05644  (23010408)                557409.40
3777453.38      106.59798  (23010408)
        557429.40   3777453.38      106.79598  (23010408)                557449.40
3777453.38      106.36391  (23010408)
        557469.40   3777453.38      105.22736  (23010408)                557489.40
3777453.38      103.45820  (23010408)
        556509.40   3777473.38      219.26230  (21010508)                556529.40
3777473.38      209.61013  (19011708)
        556549.40   3777473.38      212.99875  (19011708)                556569.40
3777473.38      216.77447  (19011708)
        556589.40   3777473.38      218.48402  (19011708)                556609.40
3777473.38      218.21377  (19011708)
        556629.40   3777473.38      214.47520  (19011708)                556649.40
3777473.38      213.95412  (21010508)
        556669.40   3777473.38      227.87086  (21010508)                556689.40
3777473.38      244.71164  (21010508)
        556709.40   3777473.38      262.36092  (21010508)                556729.40
3777473.38      274.01579  (21010508)
        556749.40   3777473.38      269.09529  (21010508)                556769.40
3777473.38      243.72545  (21010508)
        556789.40   3777473.38      223.60217  (21012908)                556809.40
3777473.38      185.72608  (21012908)
        556829.40   3777473.38      174.00611  (18122708)                556849.40
3777473.38      164.85045  (18123108)
        556869.40   3777473.38      137.37835  (18123108)                556889.40
3777473.38      109.43834  (23010608)
        556909.40   3777473.38      119.39937  (23010608)                556929.40
3777473.38      131.54510  (23010608)
        556949.40   3777473.38      147.27117  (23010608)                556969.40
3777473.38      164.26362  (23010608)
        556989.40   3777473.38      177.30808  (23010608)                557009.40
3777473.38      181.00876  (23010608)
        557029.40   3777473.38      172.23686  (23010608)                557049.40
3777473.38      152.73930  (23010608)
        557069.40   3777473.38      127.26692  (23010608)                557089.40
3777473.38      116.41055  (23010308)
        557109.40   3777473.38      131.39206  (23010308)                557129.40
3777473.38      142.63847  (23010308)
        557149.40   3777473.38      150.51018  (23010308)                557169.40
3777473.38      153.08964  (23010308)
        557189.40   3777473.38      152.44245  (23010308)                557209.40
3777473.38      148.63424  (23010308)
        557229.40   3777473.38      141.93031  (23010308)                557249.40
3777473.38      133.87353  (23010308)
        557269.40   3777473.38      124.11126  (23010308)                557289.40
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3777473.38      113.83221  (23010308)
        557309.40   3777473.38      103.56068  (23010308)                557329.40
3777473.38       93.46395  (23010308)
        557349.40   3777473.38       85.47668  (19011508)                557369.40
3777473.38       83.37581  (23010408)
        557389.40   3777473.38       86.58837  (23010408)                557409.40
3777473.38       89.46034  (23010408)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557429.40   3777473.38       91.30372  (23010408)                557449.40
3777473.38       93.09831  (23010408)
        557469.40   3777473.38       93.75839  (23010408)                557489.40
3777473.38       93.76648  (23010408)
        556509.40   3777493.38      200.01695  (21010508)                556529.40
3777493.38      201.93257  (19011708)
        556549.40   3777493.38      203.26982  (19011708)                556569.40
3777493.38      201.92863  (19011708)
        556589.40   3777493.38      199.35564  (19011708)                556609.40
3777493.38      193.63752  (19011708)
        556629.40   3777493.38      198.61195  (21010508)                556649.40
3777493.38      210.87029  (21010508)
        556669.40   3777493.38      226.71116  (21010508)                556689.40
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3777493.38      241.27219  (21010508)
        556709.40   3777493.38      251.92030  (21010508)              556729.40
3777493.38      252.46687  (21010508)
        556749.40   3777493.38      232.70778  (21010508)              556769.40
3777493.38      214.30369  (21012908)
        556789.40   3777493.38      186.47825  (21012908)              556809.40
3777493.38      155.76604  (18122708)
        556829.40   3777493.38      157.47068  (18122708)              556849.40
3777493.38      144.90605  (18123108)
        556869.40   3777493.38      117.52298  (18123108)              556889.40
3777493.38       96.23814  (23010608)
        556909.40   3777493.38      105.84104  (23010608)              556929.40
3777493.38      116.38828  (23010608)
        556949.40   3777493.38      129.30680  (23010608)              556969.40
3777493.38      143.59491  (23010608)
        556989.40   3777493.38      156.81011  (23010608)              557009.40
3777493.38      164.36698  (23010608)
        557029.40   3777493.38      162.53976  (23010608)              557049.40
3777493.38      151.15300  (23010608)
        557069.40   3777493.38      132.62074  (23010608)              557089.40
3777493.38      109.77509  (23010608)
        557109.40   3777493.38      101.30882  (23010308)              557129.40
3777493.38      113.97130  (23010308)
        557149.40   3777493.38      124.57056  (23010308)              557169.40
3777493.38      131.92266  (23010308)
        557189.40   3777493.38      135.72423  (23010308)              557209.40
3777493.38      137.05869  (23010308)
        557229.40   3777493.38      135.05886  (23010308)              557249.40
3777493.38      130.91877  (23010308)
        557269.40   3777493.38      125.02898  (23010308)              557289.40
3777493.38      117.68918  (23010308)
        557309.40   3777493.38      109.39471  (23010308)              557329.40
3777493.38      100.82686  (23010308)
        557349.40   3777493.38       92.16422  (23010308)              557369.40
3777493.38       83.54291  (23010308)
        557389.40   3777493.38       77.16153  (19011508)              557409.40
3777493.38       74.94415  (21121308)
        557429.40   3777493.38       74.67358  (23010408)              557449.40
3777493.38       77.51274  (23010408)
        557469.40   3777493.38       79.91890  (23010408)              557489.40
3777493.38       81.46396  (23010408)
        556509.40   3777513.38      190.01021  (19011708)              556529.40
3777513.38      190.06921  (19011708)
        556549.40   3777513.38      187.69613  (19011708)              556569.40
3777513.38      184.77459  (19011708)
        556589.40   3777513.38      180.68174  (21010508)              556609.40
3777513.38      187.31503  (21010508)
        556629.40   3777513.38      199.08619  (21010508)              556649.40
3777513.38      211.39466  (21010508)
        556669.40   3777513.38      224.16339  (21010508)              556689.40
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3777513.38      232.64994  (21010508)
        556709.40   3777513.38      234.41658  (21010508)                556729.40
3777513.38      223.33216  (21010508)
        556749.40   3777513.38      202.93560  (21012908)                556769.40
3777513.38      185.14256  (21012908)
        556789.40   3777513.38      153.22549  (21012908)                556809.40
3777513.38      145.17113  (18122708)
        556829.40   3777513.38      142.00911  (18123108)                556849.40
3777513.38      127.53140  (18123108)
        556869.40   3777513.38      101.04085  (18123108)                556889.40
3777513.38       84.13988  (23010608)
        556909.40   3777513.38       93.35309  (23010608)                556929.40
3777513.38      103.23587  (23010608)
        556949.40   3777513.38      114.40685  (23010608)                556969.40
3777513.38      126.70883  (23010608)
        556989.40   3777513.38      138.83827  (23010608)                557009.40
3777513.38      148.10232  (23010608)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 106
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557029.40   3777513.38      150.75349  (23010608)                557049.40
3777513.38      145.83481  (23010608)
        557069.40   3777513.38      133.35251  (23010608)                557089.40
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3777513.38      115.78724  (23010608)
        557109.40   3777513.38       95.99325  (23010608)                557129.40
3777513.38       88.49030  (23010308)
        557149.40   3777513.38       99.87221  (23010308)                557169.40
3777513.38      109.40092  (23010308)
        557189.40   3777513.38      116.36163  (23010308)                557209.40
3777513.38      121.38987  (23010308)
        557229.40   3777513.38      123.17759  (23010308)                557249.40
3777513.38      123.18669  (23010308)
        557269.40   3777513.38      120.71988  (23010308)                557289.40
3777513.38      116.48697  (23010308)
        557309.40   3777513.38      111.13684  (23010308)                557329.40
3777513.38      104.73994  (23010308)
        557349.40   3777513.38       97.63054  (23010308)                557369.40
3777513.38       90.15174  (23010308)
        557389.40   3777513.38       82.75719  (23010308)                557409.40
3777513.38       75.48478  (23010308)
        557429.40   3777513.38       69.98898  (19011508)                557449.40
3777513.38       67.63402  (21121308)
        557469.40   3777513.38       66.42085  (21121308)                557489.40
3777513.38       67.87232  (23010408)
        556509.40   3777533.38      177.90243  (19011708)                556529.40
3777533.38      175.00980  (19011708)
        556549.40   3777533.38      168.81154  (19011708)                556569.40
3777533.38      170.70491  (21010508)
        556589.40   3777533.38      176.81489  (21010508)                556609.40
3777533.38      185.67420  (21010508)
        556629.40   3777533.38      196.55726  (21010508)                556649.40
3777533.38      207.65744  (21010508)
        556669.40   3777533.38      215.14410  (21010508)                556689.40
3777533.38      217.65051  (21010508)
        556709.40   3777533.38      210.75228  (21010508)                556729.40
3777533.38      191.97412  (21012908)
        556749.40   3777533.38      179.46335  (21012908)                556769.40
3777533.38      155.96642  (21012908)
        556789.40   3777533.38      132.32602  (18122708)                556809.40
3777533.38      134.74694  (18122708)
        556829.40   3777533.38      128.95510  (18123108)                556849.40
3777533.38      112.49183  (18123108)
        556869.40   3777533.38       87.27174  (18123108)                556889.40
3777533.38       74.37349  (21012508)
        556909.40   3777533.38       82.21003  (23010608)                556929.40
3777533.38       91.45406  (23010608)
        556949.40   3777533.38      101.43552  (23010608)                556969.40
3777533.38      112.19804  (23010608)
        556989.40   3777533.38      123.31753  (23010608)                557009.40
3777533.38      132.97474  (23010608)
        557029.40   3777533.38      138.32371  (23010608)                557049.40
3777533.38      137.84403  (23010608)
        557069.40   3777533.38      130.84277  (23010608)                557089.40
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3777533.38      118.27043  (23010608)
        557109.40   3777533.38      102.18626  (23010608)                557129.40
3777533.38       84.81011  (23010608)
        557149.40   3777533.38       78.19999  (23010308)                557169.40
3777533.38       87.97306  (23010308)
        557189.40   3777533.38       96.50182  (23010308)                557209.40
3777533.38      103.75289  (23010308)
        557229.40   3777533.38      108.23964  (23010308)                557249.40
3777533.38      111.36828  (23010308)
        557269.40   3777533.38      112.08623  (23010308)                557289.40
3777533.38      111.09838  (23010308)
        557309.40   3777533.38      108.50927  (23010308)                557329.40
3777533.38      104.59325  (23010308)
        557349.40   3777533.38       99.67550  (23010308)                557369.40
3777533.38       93.89042  (23010308)
        557389.40   3777533.38       87.52513  (23010308)                557409.40
3777533.38       81.30733  (23010308)
        557429.40   3777533.38       74.81129  (23010308)                557449.40
3777533.38       68.47556  (23010308)
        557469.40   3777533.38       63.91545  (19011508)                557489.40
3777533.38       61.48898  (21121308)
        556509.40   3777553.38      163.37829  (21010508)                556529.40
3777553.38      161.71952  (21010508)
        556549.40   3777553.38      163.05539  (21010508)                556569.40
3777553.38      168.28722  (21010508)
        556589.40   3777553.38      175.87148  (21010508)                556609.40
3777553.38      184.17659  (21010508)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 107
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556629.40	3777553.38	193.75559	(21010508)	556649.40	3777553.38	201.86287	(21010508)
556669.40	3777553.38	202.80327	(21010508)	556689.40	3777553.38	197.28791	(21010508)
556709.40	3777553.38	182.25307	(21010508)	556729.40	3777553.38	172.41963	(21012908)
556749.40	3777553.38	154.13032	(21012908)	556769.40	3777553.38	128.43840	(21012908)
556789.40	3777553.38	125.15468	(18122708)	556809.40	3777553.38	124.48311	(18122708)
556829.40	3777553.38	116.66772	(18123108)	556849.40	3777553.38	99.57015	(18123108)
556869.40	3777553.38	75.95424	(18123108)	556889.40	3777553.38	69.86106	(21012508)
556909.40	3777553.38	74.56801	(21012508)	556929.40	3777553.38	81.09351	(23010608)
556949.40	3777553.38	89.91973	(23010608)	556969.40	3777553.38	99.73149	(23010608)
556989.40	3777553.38	109.66347	(23010608)	557009.40	3777553.38	119.15173	(23010608)
557029.40	3777553.38	125.80895	(23010608)	557049.40	3777553.38	128.43551	(23010608)
557069.40	3777553.38	125.66476	(23010608)	557089.40	3777553.38	117.54580	(23010608)
557109.40	3777553.38	105.24312	(23010608)	557129.40	3777553.38	90.73519	(23010608)
557149.40	3777553.38	75.37210	(23010608)	557169.40	3777553.38	69.11702	(23010308)
557189.40	3777553.38	77.88544	(23010308)	557209.40	3777553.38	85.78515	(23010308)
557229.40	3777553.38	92.22658	(23010308)	557249.40	3777553.38	97.15235	(23010308)
557269.40	3777553.38	100.48920	(23010308)	557289.40	3777553.38	102.17153	(23010308)
557309.40	3777553.38	102.19778	(23010308)	557329.40	3777553.38	100.75535	(23010308)
557349.40	3777553.38	98.16499	(23010308)	557369.40	3777553.38	94.48470	(23010308)
557389.40	3777553.38	89.77893	(23010308)	557409.40	3777553.38	84.75856	(23010308)
557429.40	3777553.38	79.32191	(23010308)	557449.40	3777553.38	73.76327	(23010308)
557469.40	3777553.38	68.06696	(23010308)	557489.40			

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3777553.38       62.29030  (23010308)
        557438.91   3777336.71       94.89026  (23010408)                556615.91
3777136.99      570.33100  (23011008)
        556586.37   3777056.16      433.37177  (23011008)                556672.35
3776929.14      304.86098  (23011008)
        556692.35   3776929.14      290.74527  (23011008)                556712.35
3776929.14      284.27562  (20010108)
        556732.35   3776929.14      303.21619  (20010108)                556752.35
3776929.14      293.29843  (19122608)
        556772.35   3776929.14      262.61779  (19122608)                556792.35
3776929.14      232.32878  (19122608)
        556812.35   3776929.14      215.14543  (19122708)                556832.35
3776929.14      213.06113  (21012208)
        556852.35   3776929.14      199.31220  (18010908)                556672.35
3776949.14      311.33666  (23011008)
        556692.35   3776949.14      321.88093  (23011008)                556712.35
3776949.14      316.03679  (20010108)
        556732.35   3776949.14      322.97139  (19122608)                556752.35
3776949.14      301.62055  (19122608)
        556772.35   3776949.14      265.02217  (19122608)                556792.35
3776949.14      236.11800  (19122608)
        556812.35   3776949.14      224.82781  (19122708)                556832.35
3776949.14      228.52512  (21012208)
        556852.35   3776949.14      210.74311  (18010908)                556672.35
3776969.14      307.21625  (23011008)
        556692.35   3776969.14      336.17483  (23011008)                556712.35
3776969.14      350.58512  (20010108)
        556732.35   3776969.14      346.42682  (19122608)                556752.35
3776969.14      309.29494  (19122608)
        556772.35   3776969.14      267.58521  (19122608)                556792.35
3776969.14      250.87943  (19122708)
        556812.35   3776969.14      225.99234  (19122708)                556832.35
3776969.14      244.70110  (21012208)
        556852.35   3776969.14      222.69978  (18010908)                556672.35
3776989.14      301.12501  (23011008)
        556692.35   3776989.14      341.35552  (20010108)                556712.35
3776989.14      386.03085  (20010108)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE 108
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
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                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556732.35   3776989.14      365.94669  (19122608)               556752.35
3776989.14      314.10903  (19122608)
        556772.35   3776989.14      277.72835  (19122708)               556792.35
3776989.14      258.05248  (19122708)
        556812.35   3776989.14      230.62959  (20010108)               556832.35
3776989.14      260.22946  (21012208)
        556852.35   3776989.14      235.66030  (18010908)               556672.35
3777009.14      302.55713  (23011008)
        556692.35   3777009.14      397.09629  (20010108)               556712.35
3777009.14      421.40521  (19122608)
        556732.35   3777009.14      387.31332  (23011008)               556752.35
3777009.14      325.28698  (23011008)
        556772.35   3777009.14      296.07755  (19122708)               556792.35
3777009.14      256.39581  (20010108)
        556812.35   3777009.14      238.81541  (20010108)               556832.35
3777009.14      273.98766  (21012208)
        556852.35   3777009.14      250.68351  (21012208)               556672.35
3777029.14      326.97109  (20010108)
        556692.35   3777029.14      460.59293  (20010108)               556712.35
3777029.14      460.82519  (19122608)
        556732.35   3777029.14      409.31303  (23011008)               556752.35
3777029.14      401.21444  (23011008)
        556772.35   3777029.14      297.87633  (19122708)               556792.35
3777029.14      267.93678  (20010108)
        556812.35   3777029.14      249.24411  (20010108)               556832.35
3777029.14      287.00777  (21012208)
        556852.35   3777029.14      277.54823  (21012208)               556672.35
3777049.14      406.92196  (20010108)
        556692.35   3777049.14      530.98113  (20010108)               556712.35
3777049.14      491.76826  (19122608)
        556732.35   3777049.14      401.66725  (23011008)               556752.35
3777049.14      451.53840  (23011008)
        556772.35   3777049.14      395.41224  (23011008)               556792.35
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3777049.14      282.11182  (20010108)
        556812.35   3777049.14      261.66472  (20010108)               556832.35
3777049.14      297.35157  (21012208)
        556852.35   3777049.14      307.23695  (21012208)               556927.54
3776959.53      275.46951  (20010108)
        556947.54   3776959.53      262.56822  (19122608)               556967.54
3776959.53      239.86004  (19122608)
        556987.54   3776959.53      200.13185  (23122208)               557007.54
3776959.53      173.98565  (19122708)
        557027.54   3776959.53      174.51885  (19122708)               557047.54
3776959.53      160.26483  (19122708)
        557067.54   3776959.53      135.86547  (19122708)               557087.54
3776959.53      107.71896  (19122708)
        556927.54   3776979.53      296.50307  (20010108)               556947.54
3776979.53      282.72515  (19122608)
        556967.54   3776979.53      241.24837  (19122608)               556987.54
3776979.53      196.81913  (23122208)
        557007.54   3776979.53      186.33128  (19122708)               557027.54
3776979.53      178.14989  (19122708)
        557047.54   3776979.53      155.31945  (19122708)               557067.54
3776979.53      126.11977  (19122708)
        557087.54   3776979.53       95.96272  (19122708)               556927.54
3776999.53      315.07068  (20010108)
        556947.54   3776999.53      290.80248  (19122608)               556967.54
3776999.53      239.14278  (19122608)
        556987.54   3776999.53      195.39181  (19122708)               557007.54
3776999.53      195.76036  (19122708)
        557027.54   3776999.53      176.50859  (19122708)               557047.54
3776999.53      146.60335  (19122708)
        557067.54   3776999.53      114.78837  (19122708)               557087.54
3776999.53       83.08152  (19122708)
        556927.54   3777019.53      333.92941  (20010108)               556947.54
3777019.53      299.15642  (19122608)
        556967.54   3777019.53      237.45207  (19122608)               556987.54
3777019.53      211.27568  (19122708)
        557007.54   3777019.53      199.46043  (19122708)               557027.54
3777019.53      169.36698  (19122708)
        557047.54   3777019.53      135.45995  (19122708)               557067.54
3777019.53      102.09733  (19122708)
        557087.54   3777019.53       84.67720  (18120608)               556927.54
3777039.53      353.03709  (19122608)
        556947.54   3777039.53      303.07431  (19122608)               556967.54
3777039.53      234.46879  (23122208)
        556987.54   3777039.53      222.81770  (19122708)               557007.54
3777039.53      195.63049  (19122708)
        557027.54   3777039.53      158.39131  (19122708)               557047.54
3777039.53      123.24213  (19122708)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
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                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
                                 INCLUDING SOURCE(S):   L0000059   , L0000060 , L0000061   , L0000062   , L0000063   ,
                  L0000064   , L0000065   , L0000066   , L0000067   , L0000068 , L0000069   , L0000070   , L0000045   ,
                  L0000046   , L0000047   , L0000048   , L0000049   , L0000050 , L0000051   , L0000052   , L0000053   ,
                  L0000054   , L0000055   , L0000056   , L0000057   , L0000058 ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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3777211.57      280.93457  (19020608)
        557043.57   3777211.57      252.76549  (19020608)              557063.57
3777211.57      229.60989  (19020608)
        557083.57   3777211.57      209.29470  (19020608)              557023.57
3777231.57      314.70621  (19020608)
        557043.57   3777231.57      283.46141  (19020608)              557063.57
3777231.57      257.87784  (19020608)
        557083.57   3777231.57      234.16290  (19020608)              557023.57
3777251.57      388.71799  (23010408)
        557043.57   3777251.57      327.68297  (23010408)              557063.57
3777251.57      278.82883  (23010408)
        557083.57   3777251.57      241.11685  (19020608)              556249.05
3776972.85       41.35316  (21120708)
        556269.05   3776972.85       53.84756  (21120708)              556229.05
3776992.85       51.27290  (20121008)
        556249.05   3776992.85       41.97425  (20121008)              556269.05
3776992.85       35.89788  (21120708)
        556289.05   3776992.85       47.15576  (21120708)              556309.05
3776992.85       62.47173  (21120708)
        556329.05   3776992.85       79.47517  (21120708)              556209.05
3777012.85       94.94574  (20121008)
        556229.05   3777012.85       86.01662  (20121008)              556249.05
3777012.85       76.88547  (20121008)
        556269.05   3777012.85       67.59407  (20121008)              556289.05
3777012.85       57.98950  (20121008)
        556309.05   3777012.85       46.65897  (20121008)              556329.05
3777012.85       55.31926  (21120708)
        556209.05   3777032.85      133.19654  (20121008)              556229.05
3777032.85      128.24056  (20121008)
        556249.05   3777032.85      121.37398  (20121008)              556269.05
3777032.85      112.92257  (20121008)
        556289.05   3777032.85      103.39580  (20121008)              556309.05
3777032.85       92.30325  (20121008)
        556209.05   3777052.85      166.46587  (20121008)              556229.05
3777052.85      167.49842  (20121008)
        556249.05   3777052.85      165.42519  (20121008)              556269.05
3777052.85      162.40976  (20121008)
        556289.05   3777052.85      156.94499  (20121008)              556309.05
3777052.85      149.38510  (20121008)
        556249.05   3777072.85      197.54594  (20121008)              556269.05
3777072.85      201.59799  (20121008)
        556289.05   3777072.85      203.90549  (20121008)              556269.05
3777092.85      217.00425  (20121008)
        556441.69   3776927.49       68.23691  (21120708)              556461.69
3776927.49       83.23709  (23011008)
        556481.69   3776927.49      144.55330  (23011008)              556421.69
3776947.49      115.42168  (21120708)
        556441.69   3776947.49       98.60967  (21120708)              556461.69
3776947.49       80.64384  (21120708)
        556481.69   3776947.49      109.79485  (23011008)              556401.69
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3776967.49      146.40843  (21120708)
        556421.69   3776967.49      143.06252  (21120708)                556441.69
3776967.49      131.59805  (21120708)
        556461.69   3776967.49      114.60602  (21120708)                556481.69
3776967.49       94.92365  (21120708)
        556401.69   3776987.49      151.79717  (21120708)                556421.69
3776987.49      160.02702  (21120708)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 110
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556441.69   3776987.49      160.23110  (21120708)                556461.69
3776987.49      151.20019  (21120708)
        556481.69   3776987.49      134.80831  (21120708)                556421.69
3777007.49      159.72865  (21120708)
        556441.69   3777007.49      173.64741  (21120708)                556461.69
3777007.49      178.80156  (21120708)
        556481.69   3777007.49      173.77425  (21120708)                556441.69
3777027.49      165.76008  (21120708)
        556461.69   3777027.49      186.65380  (21120708)                556481.69
3777027.49      199.64750  (21120708)
        556251.24   3777154.95      387.39459  (19011408)                556261.28
3777141.20      368.04059  (19011408)
        556264.98   3777168.16      410.36665  (19011408)                556279.25
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3777151.77      406.34073  (19011408)
        556202.60   3777113.45      261.60825  (19011408)                556220.05
3777109.75      253.53647  (19011408)
        556187.53   3777090.19      189.82994  (19011408)                556164.27
3777121.38      270.77272  (19011408)
        557510.26   3776508.23       43.28228  (20012108)                557530.26
3776508.23       42.23561  (20012108)
        557550.26   3776508.23       40.83678  (20012108)                557570.26
3776508.23       39.12665  (20012108)
        557590.26   3776508.23       37.17311  (20012108)                557610.26
3776508.23       37.94620  (18120608)
        557630.26   3776508.23       40.08709  (18120608)                557650.26
3776508.23       42.10722  (18120608)
        557670.26   3776508.23       43.82908  (18120608)                557690.26
3776508.23       45.26368  (18120608)
        557510.26   3776528.23       43.20173  (20012108)                557530.26
3776528.23       41.78229  (20012108)
        557550.26   3776528.23       40.05939  (20012108)                557570.26
3776528.23       37.99902  (20012108)
        557590.26   3776528.23       39.64435  (18120608)                557610.26
3776528.23       41.76586  (18120608)
        557630.26   3776528.23       43.74922  (18120608)                557650.26
3776528.23       45.57933  (18120608)
        557670.26   3776528.23       46.96168  (18120608)                557690.26
3776528.23       48.21052  (18120608)
        557510.26   3776548.23       42.68993  (20012108)                557530.26
3776548.23       40.99096  (20012108)
        557550.26   3776548.23       39.14645  (18120608)                557570.26
3776548.23       41.21334  (18120608)
        557590.26   3776548.23       43.30363  (18120608)                557610.26
3776548.23       45.16139  (18120608)
        557630.26   3776548.23       46.88493  (18120608)                557650.26
3776548.23       48.48570  (18120608)
        557670.26   3776548.23       49.65904  (18120608)                557690.26
3776548.23       50.69616  (18120608)
        557510.26   3776568.23       41.82237  (20012108)                557530.26
3776568.23       41.03486  (18120608)
        557550.26   3776568.23       43.02414  (18120608)                557570.26
3776568.23       44.74122  (18120608)
        557590.26   3776568.23       46.51651  (18120608)                557610.26
3776568.23       48.08636  (18120608)
        557630.26   3776568.23       49.52352  (18120608)                557650.26
3776568.23       50.92128  (18120608)
        557670.26   3776568.23       51.80038  (18120608)                557690.26
3776568.23       52.42561  (18120608)
        557510.26   3776588.23       42.64358  (18120608)                557530.26
3776588.23       44.80372  (18120608)
        557550.26   3776588.23       46.49786  (18120608)                557570.26
3776588.23       47.80715  (18120608)
        557590.26   3776588.23       49.12104  (18120608)                557610.26
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3776588.23       50.39966  (18120608)
        557630.26   3776588.23       51.74477  (18120608)                557650.26
3776588.23       52.79053  (18120608)
        557670.26   3776588.23       53.48109  (18120608)                557690.26
3776588.23       53.89783  (18120608)
        557510.26   3776608.23       46.12699  (18120608)                557530.26
3776608.23       48.04063  (18120608)
        557550.26   3776608.23       49.37972  (18120608)                557570.26
3776608.23       50.47470  (18120608)
        557590.26   3776608.23       51.34478  (18120608)                557610.26
3776608.23       52.32649  (18120608)
        557630.26   3776608.23       53.37498  (18120608)                557650.26
3776608.23       54.04722  (18120608)
        557670.26   3776608.23       54.33034  (18120608)                557690.26
3776608.23       54.30126  (18120608)
        557510.26   3776628.23       49.17726  (18120608)                557530.26
3776628.23       50.71664  (18120608)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 111
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557550.26   3776628.23       51.64235  (18120608)                557570.26
3776628.23       52.99457  (18120608)
        557590.26   3776628.23       53.15920  (18120608)                557610.26
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3776628.23       53.80269  (18120608)
        557630.26   3776628.23       54.35323  (18120608)                557650.26
3776628.23       54.80888  (18120608)
        557670.26   3776628.23       54.71894  (18120608)                557690.26
3776628.23       54.36652  (18120608)
        557510.26   3776648.23       51.65239  (18120608)                557530.26
3776648.23       52.66977  (18120608)
        557550.26   3776648.23       53.28362  (18120608)                557570.26
3776648.23       53.60929  (18120608)
        557590.26   3776648.23       54.27579  (18120608)                557610.26
3776648.23       53.77576  (18120608)
        557630.26   3776648.23       54.76622  (18120608)                557650.26
3776648.23       54.87904  (18120608)
        557670.26   3776648.23       54.32702  (18120608)                557690.26
3776648.23       53.58692  (18120608)
        557510.26   3776668.23       51.20619  (18120608)                557530.26
3776668.23       51.06407  (18120608)
        557550.26   3776668.23       49.74093  (18120608)                557570.26
3776668.23       47.52731  (18120608)
        557590.26   3776668.23       49.74733  (18120608)                557610.26
3776668.23       48.90741  (18120608)
        557630.26   3776668.23       49.30400  (18120608)                557650.26
3776668.23       50.39760  (18120608)
        557670.26   3776668.23       51.05818  (18120608)                557690.26
3776668.23       50.53874  (18120608)
        557510.26   3776688.23       44.30133  (18120608)                557530.26
3776688.23       44.33605  (18120608)
        557550.26   3776688.23       44.03588  (18120608)                557570.26
3776688.23       44.93414  (18120608)
        557590.26   3776688.23       45.64290  (18120608)                557610.26
3776688.23       44.70730  (18120608)
        557630.26   3776688.23       46.11357  (18120608)                557650.26
3776688.23       46.19443  (18120608)
        557670.26   3776688.23       45.63766  (18120608)                557690.26
3776688.23       44.61707  (18120608)
        556172.49   3776517.81       20.74399  (23011008)                556192.49
3776517.81       33.62897  (23011008)
        556212.49   3776517.81       48.59006  (23011008)                556232.49
3776517.81       65.89783  (23011008)
        556252.49   3776517.81       82.63923  (23011008)                556272.49
3776517.81       97.51622  (23011008)
        556292.49   3776517.81      107.45064  (23011008)                556312.49
3776517.81      111.91024  (23011008)
        556332.49   3776517.81      113.90356  (23011008)                556352.49
3776517.81      112.26601  (23011008)
        556372.49   3776517.81      107.85218  (23011008)                556392.49
3776517.81      107.40367  (23011008)
        556412.49   3776517.81      103.53983  (23011008)                556432.49
3776517.81       95.55808  (23011008)
        556452.49   3776517.81       82.33815  (23011008)                556472.49
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3776517.81       66.91075  (23011008)
        556492.49   3776517.81       53.75964  (21120908)                556172.49
3776537.81       14.85124  (23011008)
        556192.49   3776537.81       25.18326  (23011008)                556212.49
3776537.81       39.49057  (23011008)
        556232.49   3776537.81       56.51918  (23011008)                556252.49
3776537.81       74.59795  (23011008)
        556272.49   3776537.81       90.61937  (23011008)                556292.49
3776537.81      104.91874  (23011008)
        556312.49   3776537.81      112.86172  (23011008)                556332.49
3776537.81      116.76610  (23011008)
        556352.49   3776537.81      116.19517  (23011008)                556372.49
3776537.81      112.65729  (23011008)
        556392.49   3776537.81      108.67980  (23011008)                556412.49
3776537.81      107.69024  (23011008)
        556432.49   3776537.81      103.17425  (23011008)                556452.49
3776537.81       92.57051  (23011008)
        556472.49   3776537.81       79.46260  (23011008)                556492.49
3776537.81       61.58291  (23011008)
        556332.49   3776557.81      119.81281  (23011008)                556352.49
3776557.81      118.88051  (23011008)
        556372.49   3776557.81      117.78612  (23011008)                556392.49
3776557.81      114.26706  (23011008)
        556412.49   3776557.81      113.51643  (23011008)                556432.49
3776557.81      109.85179  (23011008)
        556452.49   3776557.81      101.99064  (23011008)                556472.49
3776557.81       91.16682  (23011008)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 112
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556492.49	3776557.81	75.33406	(23011008)	556332.49	3776577.81	119.73306	(23011008)
556352.49	3776577.81	123.53287	(23011008)	556372.49	3776577.81	122.64950	(23011008)
556392.49	3776577.81	120.71754	(23011008)	556412.49	3776577.81	119.04421	(23011008)
556432.49	3776577.81	115.35927	(23011008)	556452.49	3776577.81	110.87616	(23011008)
556472.49	3776577.81	103.14037	(23011008)	556492.49	3776577.81	89.16461	(23011008)
556332.49	3776597.81	120.07794	(23011008)	556352.49	3776597.81	126.58222	(23011008)
556372.49	3776597.81	127.26294	(23011008)	556392.49	3776597.81	123.63708	(23011008)
556412.49	3776597.81	123.22609	(23011008)	556432.49	3776597.81	119.99414	(23011008)
556452.49	3776597.81	115.59600	(23011008)	556472.49	3776597.81	110.68746	(23011008)
556492.49	3776597.81	102.01323	(23011008)	556252.49	3776617.81	35.59783	(23011008)
556272.49	3776617.81	54.59803	(23011008)	556292.49	3776617.81	76.88047	(23011008)
556312.49	3776617.81	99.24727	(23011008)	556332.49	3776617.81	115.35523	(23011008)
556352.49	3776617.81	128.01391	(23011008)	556372.49	3776617.81	132.93786	(23011008)
556392.49	3776617.81	130.98280	(23011008)	556412.49	3776617.81	129.12501	(23011008)
556432.49	3776617.81	124.74503	(23011008)	556452.49	3776617.81	123.15681	(23011008)
556472.49	3776617.81	117.44740	(23011008)	556492.49	3776617.81	112.96489	(23011008)
556252.49	3776637.81	26.24548	(23011008)	556272.49	3776637.81	44.14349	(23011008)
556292.49	3776637.81	65.26636	(23011008)	556312.49	3776637.81	88.54504	(23011008)
556332.49	3776637.81	111.26647	(23011008)	556352.49	3776637.81	126.67254	(23011008)
556372.49	3776637.81	136.18287	(23011008)	556392.49	3776637.81	136.07434	(23011008)
556412.49	3776637.81	133.80176	(23011008)	556432.49	3776637.81	130.10289	(23011008)
556452.49	3776637.81	126.69468	(23011008)	556472.49			

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3776637.81      124.80039  (23011008)
        556492.49   3776637.81      121.59422  (23011008)                556252.49
3776657.81       18.60012  (23011008)
        556272.49   3776657.81       33.36856  (23011008)                556292.49
3776657.81       53.92655  (23011008)
        556312.49   3776657.81       76.19200  (23011008)                556332.49
3776657.81      102.47385  (23011008)
        556352.49   3776657.81      123.82287  (23011008)                556372.49
3776657.81      137.69098  (23011008)
        556392.49   3776657.81      140.08788  (23011008)                556412.49
3776657.81      138.59880  (23011008)
        556432.49   3776657.81      134.57429  (23011008)                556452.49
3776657.81      131.16277  (23011008)
        556472.49   3776657.81      129.03651  (23011008)                556492.49
3776657.81      128.22725  (23011008)
        556252.49   3776677.81       18.71862  (23122209)                556272.49
3776677.81       23.18830  (23011008)
        556292.49   3776677.81       40.56552  (23011008)                556312.49
3776677.81       63.99465  (23011008)
        556332.49   3776677.81       90.91715  (23011008)                556352.49
3776677.81      116.83699  (23011008)
        556372.49   3776677.81      135.49821  (23011008)                556392.49
3776677.81      143.57795  (23011008)
        556412.49   3776677.81      146.02456  (23011008)                556432.49
3776677.81      140.43970  (23011008)
        556452.49   3776677.81      135.59653  (23011008)                556472.49
3776677.81      133.65193  (23011008)
        556492.49   3776677.81      133.39429  (23011008)                556252.49
3776697.81       22.20615  (23122209)
        556272.49   3776697.81       19.61489  (23122209)                556372.49
3776697.81      130.35982  (23011008)
        556392.49   3776697.81      143.13849  (23011008)                556412.49
3776697.81      149.75629  (23011008)
        556432.49   3776697.81      147.00181  (23011008)                556452.49
3776697.81      140.83804  (23011008)
        556472.49   3776697.81      137.69102  (23011008)                556492.49
3776697.81      137.46757  (23011008)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE 113
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000059    , L0000060
, L0000061    , L0000062    , L0000063    ,
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                 L0000064    , L0000065    , L0000066    , L0000067    , L0000068
, L0000069    , L0000070    , L0000045    ,
                 L0000046    , L0000047    , L0000048    , L0000049    , L0000050
, L0000051    , L0000052    , L0000053    ,
                 L0000054    , L0000055    , L0000056    , L0000057    , L0000058
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556252.49   3776717.81       25.44072  (23122209)               556272.49
3776717.81       23.31297  (23122209)
        556372.49   3776717.81      121.11993  (23011008)               556392.49
3776717.81      140.17323  (23011008)
        556412.49   3776717.81      152.84803  (23011008)               556432.49
3776717.81      153.54350  (23011008)
        556452.49   3776717.81      148.02241  (23011008)               556472.49
3776717.81      146.35959  (23011008)
        556492.49   3776717.81      141.68575  (23011008)               556267.40
3776875.81      100.88149  (21120708)
        556239.03   3776853.02       93.10861  (21120708)               556178.76
3776751.21       49.43922  (21120708)
        556154.45   3776774.51       69.54195  (21120708)               556119.50
3776705.11       42.31355  (21120708)
        556146.51   3777267.93      122.96913  (19011408)               556151.00
3777234.88      190.84945  (19011408)
        556144.93   3777179.58      292.81253  (19011408)               556205.18
3777236.46      207.28327  (19011408)
        556218.00   3777200.04      320.74177  (19011408)               556774.37
3777347.57      403.62549  (19011708)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       11:13:13

                                  PAGE 114
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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                 L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                 L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                 L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556521.71   3777341.57      704.20410  (19010708)               556539.90
3777344.94      638.49523  (19011708)
        556591.78   3777345.39     1387.66187  (19011708)               556630.62
3777349.66     1469.07102  (19011708)
        556684.29   3777349.43     1260.44053  (21010508)               556905.58
3777351.19      739.72137  (21012508)
        556920.93   3777350.82      771.50861  (23010608)               556942.87
3777350.09      972.72719  (23010608)
        556996.26   3777348.26      548.47154  (23010308)               557096.81
3777357.77      545.94851  (23010308)
        557115.83   3777363.62      520.96436  (23010308)               557129.36
3777361.43      511.74829  (23010308)
        557230.65   3777363.99      310.84058  (19011508)               556466.22
3776816.07      186.47151  (23011008)
        556407.87   3776826.19       93.24000  (19020508)               556381.07
3776807.14       87.64603  (19020508)
        556404.29   3776771.52      132.79588  (23011008)               556465.21
3776739.51      159.56257  (23011008)
        556396.10   3776739.93      138.74531  (23011008)               556323.99
3777265.43      297.80706  (18122608)
        556330.60   3777233.99      336.51415  (19011408)               556321.08
3777200.43      606.83832  (19011408)
        556275.11   3777267.81      201.35374  (18122608)               556278.28
3777233.46      296.02090  (19011408)
        556509.40   3777373.38      674.23439  (19011708)               556529.40
3777373.38      896.20803  (19011708)
        556549.40   3777373.38     1145.32829  (19011708)               556569.40
3777373.38     1326.90946  (19011708)
        556589.40   3777373.38     1352.51230  (19011708)               556609.40
3777373.38     1176.72804  (19011708)
        556629.40   3777373.38      952.81506  (19011608)               556649.40
3777373.38      755.21250  (21010508)
        556669.40   3777373.38     1207.06102  (21010508)               556689.40
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3777373.38     1566.83089  (21010508)
        556709.40   3777373.38     1531.25005  (21010508)                556729.40
3777373.38     1356.43005  (21012908)
        556749.40   3777373.38     1093.50009  (21012908)                556769.40
3777373.38      889.05155  (19012408)
        556789.40   3777373.38      887.67831  (18122708)                556809.40
3777373.38      774.50805  (18123108)
        556829.40   3777373.38      562.61071  (18123108)                556849.40
3777373.38      423.39061  (18123108)
        556869.40   3777373.38      354.92880  (18123108)                556889.40
3777373.38      457.42913  (21012508)
        556909.40   3777373.38      609.61476  (21012508)                556929.40
3777373.38      625.79563  (21012508)
        556949.40   3777373.38      754.02898  (23010608)                556969.40
3777373.38      794.48100  (23010608)
        556989.40   3777373.38      696.69368  (23010608)                557009.40
3777373.38      522.16794  (23010608)
        557029.40   3777373.38      405.14405  (23010308)                557049.40
3777373.38      433.81925  (23010308)
        557069.40   3777373.38      456.95208  (23010308)                557089.40
3777373.38      476.86625  (23010308)
        557109.40   3777373.38      489.23259  (23010308)                557129.40
3777373.38      489.58097  (23010308)
        557149.40   3777373.38      474.68058  (23010308)                557169.40
3777373.38      444.73286  (23010308)
        557189.40   3777373.38      402.77008  (23010308)                557209.40
3777373.38      352.03693  (23010308)
        557229.40   3777373.38      306.33293  (19011508)                557249.40
3777373.38      294.07151  (19011508)
        557269.40   3777373.38      277.84029  (21121308)                557289.40
3777373.38      272.96737  (21121308)
        557309.40   3777373.38      278.03608  (23010408)                557329.40
3777373.38      286.18515  (23010408)
        557349.40   3777373.38      294.76709  (23010408)                557369.40
3777373.38      301.12881  (23010408)
        557389.40   3777373.38      305.61010  (23010408)                557409.40
3777373.38      307.86545  (23010408)
        557429.40   3777373.38      306.90163  (23010408)                557449.40
3777373.38      304.52426  (23010408)
        557469.40   3777373.38      299.11505  (23010408)                557489.40
3777373.38      290.04640  (23010408)
        556509.40   3777393.38      914.48599  (19011708)                556529.40
3777393.38     1111.96296  (19011708)
        556549.40   3777393.38     1225.05563  (19011708)                556569.40
3777393.38     1185.15460  (19011708)
        556589.40   3777393.38     1024.30686  (19011608)                556609.40
3777393.38      820.04030  (19011608)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
```

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000059   , L0000060   , L0000061   , L0000062 , L0000063   , L0000064   , L0000065   ,
                  L0000066   , L0000067   , L0000068   , L0000069   , L0000070 , L0000045   , L0000046   , L0000047   ,
                  L0000048   , L0000049   , L0000050   , L0000051   , L0000052 , L0000053   , L0000054   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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3777393.38      380.77906  (23010308)
        557109.40   3777393.38      405.53302  (23010308)              557129.40
3777393.38      423.24087  (23010308)
        557149.40   3777393.38      434.02084  (23010308)              557169.40
3777393.38      431.18077  (23010308)
        557189.40   3777393.38      415.16643  (23010308)              557209.40
3777393.38      387.90922  (23010308)
        557229.40   3777393.38      350.25482  (23010308)              557249.40
3777393.38      305.41784  (23010308)
        557269.40   3777393.38      271.63221  (19011508)              557289.40
3777393.38      262.39874  (19011508)
        557309.40   3777393.38      248.05242  (19011508)              557329.40
3777393.38      243.40928  (21121308)
        557349.40   3777393.38      237.46663  (21121308)              557369.40
3777393.38      242.07481  (23010408)
        557389.40   3777393.38      250.36612  (23010408)              557409.40
3777393.38      257.08475  (23010408)
        557429.40   3777393.38      262.81711  (23010408)              557449.40
3777393.38      267.39922  (23010408)
        557469.40   3777393.38      269.23401  (23010408)              557489.40
3777393.38      268.25848  (23010408)
        556509.40   3777413.38     1067.06678  (19011708)              556529.40
3777413.38     1123.78913  (19011708)
        556549.40   3777413.38     1049.53343  (19011708)              556569.40
3777413.38      910.01419  (19011608)
        556589.40   3777413.38      714.64277  (19011608)              556609.40
3777413.38      531.25162  (21010508)
        556629.40   3777413.38      852.89802  (21010508)              556649.40
3777413.38     1189.51951  (21010508)
        556669.40   3777413.38     1337.32864  (21010508)              556689.40
3777413.38     1163.58072  (21010508)
        556709.40   3777413.38     1100.76477  (21012908)              556729.40
3777413.38      881.44897  (21012908)
        556749.40   3777413.38      758.19204  (19012408)              556769.40
3777413.38      727.84698  (18122708)
        556789.40   3777413.38      712.55944  (18123108)              556809.40
3777413.38      576.08389  (18123108)
        556829.40   3777413.38      409.73482  (18123108)              556849.40
3777413.38      305.46387  (18123108)
        556869.40   3777413.38      244.11569  (18123108)              556889.40
3777413.38      281.97590  (21012508)
        556909.40   3777413.38      412.97792  (21012508)              556929.40
3777413.38      496.51135  (21012508)
        556949.40   3777413.38      472.62369  (21012508)              556969.40
3777413.38      546.12522  (23010608)
        556989.40   3777413.38      602.16788  (23010608)              557009.40
3777413.38      576.31733  (23010608)
        557029.40   3777413.38      480.68635  (23010608)              557049.40
3777413.38      355.31163  (23010608)
        557069.40   3777413.38      266.47035  (23010308)              557089.40
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3777413.38      293.45536  (23010308)
        557109.40   3777413.38      320.17022  (23010308)                557129.40
3777413.38      343.77718  (23010308)
        557149.40   3777413.38      366.88927  (23010308)                557169.40
3777413.38      381.71872  (23010308)
        557189.40   3777413.38      388.22519  (23010308)                557209.40
3777413.38      384.10148  (23010308)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557229.40   3777413.38      367.22800  (23010308)                557249.40
3777413.38      340.37300  (23010308)
        557269.40   3777413.38      306.28484  (23010308)                557289.40
3777413.38      267.85396  (23010308)
        557309.40   3777413.38      243.02424  (19011508)                557329.40
3777413.38      235.64435  (19011508)
        557349.40   3777413.38      225.64686  (19011508)                557369.40
3777413.38      218.10357  (21121308)
        557389.40   3777413.38      214.81130  (21121308)                557409.40
3777413.38      208.58025  (21121308)
        557429.40   3777413.38      212.72337  (23010408)                557449.40
3777413.38      220.06254  (23010408)
        557469.40   3777413.38      226.90334  (23010408)                557489.40
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3777413.38      231.46260  (23010408)
        556509.40   3777433.38     1023.02674  (19011708)                556529.40
3777433.38      921.42410  (19011708)
        556549.40   3777433.38      805.15621  (19011608)                556569.40
3777433.38      621.88637  (19011608)
        556589.40   3777433.38      455.33543  (21010508)                556609.40
3777433.38      720.35200  (21010508)
        556629.40   3777433.38     1038.02384  (21010508)                556649.40
3777433.38     1231.83374  (21010508)
        556669.40   3777433.38     1153.95723  (21010508)                556689.40
3777433.38     1044.25462  (21012908)
        556709.40   3777433.38      919.58555  (21012908)                556729.40
3777433.38      717.51758  (19012408)
        556749.40   3777433.38      654.26385  (19012408)                556769.40
3777433.38      684.03638  (18122708)
        556789.40   3777433.38      638.88265  (18123108)                556809.40
3777433.38      497.40197  (18123108)
        556829.40   3777433.38      351.85703  (18123108)                556849.40
3777433.38      260.97802  (18123108)
        556869.40   3777433.38      204.35050  (18123108)                556889.40
3777433.38      224.50358  (21012508)
        556909.40   3777433.38      337.66288  (21012508)                556929.40
3777433.38      428.63544  (21012508)
        556949.40   3777433.38      444.37534  (21012508)                556969.40
3777433.38      428.53948  (23010608)
        556989.40   3777433.38      510.39016  (23010608)                557009.40
3777433.38      538.80996  (23010608)
        557029.40   3777433.38      497.92804  (23010608)                557049.40
3777433.38      408.48518  (23010608)
        557069.40   3777433.38      299.26796  (23010608)                557089.40
3777433.38      222.58188  (23010308)
        557109.40   3777433.38      246.82469  (23010308)                557129.40
3777433.38      270.17831  (23010308)
        557149.40   3777433.38      294.73842  (23010308)                557169.40
3777433.38      316.27909  (23010308)
        557189.40   3777433.38      335.28096  (23010308)                557209.40
3777433.38      347.60709  (23010308)
        557229.40   3777433.38      349.43112  (23010308)                557249.40
3777433.38      343.00558  (23010308)
        557269.40   3777433.38      326.00101  (23010308)                557289.40
3777433.38      300.49963  (23010308)
        557309.40   3777433.38      270.65595  (23010308)                557329.40
3777433.38      236.63478  (23010308)
        557349.40   3777433.38      217.89523  (19011508)                557369.40
3777433.38      212.74588  (19011508)
        557389.40   3777433.38      205.55991  (19011508)                557409.40
3777433.38      197.42073  (21121308)
        557429.40   3777433.38      194.32433  (21121308)                557449.40
3777433.38      189.98108  (21121308)
        557469.40   3777433.38      183.42447  (21121308)                557489.40
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3777433.38      189.30456  (23010408)
        556509.40   3777453.38      820.81710  (19011608)                556529.40
3777453.38      716.90815  (19011608)
        556549.40   3777453.38      549.52294  (19011608)                556569.40
3777453.38      396.14287  (21010508)
        556589.40   3777453.38      612.84661  (21010508)                556609.40
3777453.38      895.47939  (21010508)
        556629.40   3777453.38     1118.86496  (21010508)                556649.40
3777453.38     1122.40014  (21010508)
        556669.40   3777453.38      955.37643  (21012908)                556689.40
3777453.38      919.23766  (21012908)
        556709.40   3777453.38      733.92623  (21012908)                556729.40
3777453.38      657.74380  (19012408)
        556749.40   3777453.38      579.79933  (18122708)                556769.40
3777453.38      633.39058  (18122708)
        556789.40   3777453.38      569.35535  (18123108)                556809.40
3777453.38      430.88902  (18123108)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 117
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                 L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                 L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556829.40   3777453.38      304.55041  (18123108)                556849.40
3777453.38      225.64857  (18123108)
        556869.40   3777453.38      183.81606  (19112908)                556889.40
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3777453.38      181.82625  (21012508)
        556909.40   3777453.38      275.61565  (21012508)              556929.40
3777453.38      365.25282  (21012508)
        556949.40   3777453.38      405.54632  (21012508)              556969.40
3777453.38      371.54175  (21012508)
        556989.40   3777453.38      417.88918  (23010608)              557009.40
3777453.38      473.81612  (23010608)
        557029.40   3777453.38      478.75035  (23010608)              557049.40
3777453.38      431.03726  (23010608)
        557069.40   3777453.38      348.22633  (23010608)              557089.40
3777453.38      253.97595  (23010608)
        557109.40   3777453.38      188.76237  (23010308)              557129.40
3777453.38      209.42183  (23010308)
        557149.40   3777453.38      231.28970  (23010308)              557169.40
3777453.38      252.29261  (23010308)
        557189.40   3777453.38      274.27088  (23010308)              557209.40
3777453.38      294.46940  (23010308)
        557229.40   3777453.38      308.55804  (23010308)              557249.40
3777453.38      317.36571  (23010308)
        557269.40   3777453.38      316.75298  (23010308)              557289.40
3777453.38      307.48526  (23010308)
        557309.40   3777453.38      291.08744  (23010308)              557329.40
3777453.38      267.80329  (23010308)
        557349.40   3777453.38      240.49631  (23010308)              557369.40
3777453.38      210.24373  (23010308)
        557389.40   3777453.38      198.22767  (19011508)              557409.40
3777453.38      195.04610  (19011508)
        557429.40   3777453.38      188.07904  (19011508)              557449.40
3777453.38      178.79610  (19011508)
        557469.40   3777453.38      177.15476  (21121308)              557489.40
3777453.38      173.77982  (21121308)
        556509.40   3777473.38      640.20466  (19011608)              556529.40
3777473.38      484.39421  (19011608)
        556549.40   3777473.38      349.83170  (21010508)              556569.40
3777473.38      526.49332  (21010508)
        556589.40   3777473.38      773.35135  (21010508)              556609.40
3777473.38      996.13973  (21010508)
        556629.40   3777473.38     1061.68167  (21010508)              556649.40
3777473.38      915.71398  (21010508)
        556669.40   3777473.38      884.32917  (21012908)              556689.40
3777473.38      766.59393  (21012908)
        556709.40   3777473.38      609.58072  (19012408)              556729.40
3777473.38      584.75002  (19012408)
        556749.40   3777473.38      565.24376  (18122708)              556769.40
3777473.38      580.03273  (18122708)
        556789.40   3777473.38      504.87014  (18123108)              556809.40
3777473.38      374.04901  (18123108)
        556829.40   3777473.38      263.71349  (18123108)              556849.40
3777473.38      195.52169  (18123108)
        556869.40   3777473.38      167.85034  (19112908)              556889.40
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3777473.38      150.50994  (21012508)
        556909.40   3777473.38      226.01622  (21012508)                556929.40
3777473.38      311.35949  (21012508)
        556949.40   3777473.38      366.00275  (21012508)                556969.40
3777473.38      359.99598  (21012508)
        556989.40   3777473.38      335.37186  (23010608)                557009.40
3777473.38      403.83452  (23010608)
        557029.40   3777473.38      439.01265  (23010608)                557049.40
3777473.38      428.45936  (23010608)
        557069.40   3777473.38      377.17471  (23010608)                557089.40
3777473.38      299.62262  (23010608)
        557109.40   3777473.38      217.84720  (23010608)                557129.40
3777473.38      161.42851  (23010308)
        557149.40   3777473.38      180.12670  (23010308)                557169.40
3777473.38      198.36533  (23010308)
        557189.40   3777473.38      218.37705  (23010308)                557209.40
3777473.38      238.95532  (23010308)
        557229.40   3777473.38      257.94550  (23010308)                557249.40
3777473.38      274.84412  (23010308)
        557269.40   3777473.38      285.70905  (23010308)                557289.40
3777473.38      290.15923  (23010308)
        557309.40   3777473.38      287.66809  (23010308)                557329.40
3777473.38      277.92195  (23010308)
        557349.40   3777473.38      261.28038  (23010308)                557369.40
3777473.38      239.89162  (23010308)
        557389.40   3777473.38      215.00148  (23010308)                557409.40
3777473.38      189.36304  (23010308)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 118
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                 L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                 L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557429.40	3777473.38	181.27735	(19011508)	557449.40	3777473.38	178.71040	(19011508)
557469.40	3777473.38	172.85978	(19011508)	557489.40	3777473.38	164.82816	(19011508)
556509.40	3777493.38	433.71526	(19011608)	556529.40	3777493.38	317.47082	(21010508)
556549.40	3777493.38	458.17460	(21010508)	556569.40	3777493.38	665.59518	(21010508)
556589.40	3777493.38	880.62346	(21010508)	556609.40	3777493.38	989.00564	(21010508)
556629.40	3777493.38	905.76704	(21010508)	556649.40	3777493.38	823.68579	(21012908)
556669.40	3777493.38	775.66870	(21012908)	556689.40	3777493.38	621.17752	(21012908)
556709.40	3777493.38	572.50667	(19012408)	556729.40	3777493.38	508.32713	(19012408)
556749.40	3777493.38	543.32129	(18122708)	556769.40	3777493.38	533.17976	(18123108)
556789.40	3777493.38	447.03174	(18123108)	556809.40	3777493.38	324.89853	(18123108)
556829.40	3777493.38	229.59698	(18123108)	556849.40	3777493.38	169.40115	(18123108)
556869.40	3777493.38	153.92391	(19112908)	556889.40	3777493.38	130.71887	(20112708)
556909.40	3777493.38	186.78877	(21012508)	556929.40	3777493.38	262.75814	(21012508)
556949.40	3777493.38	324.46795	(21012508)	556969.40	3777493.38	339.71855	(21012508)
556989.40	3777493.38	302.68477	(21012508)	557009.40	3777493.38	334.19460	(23010608)
557029.40	3777493.38	385.63756	(23010608)	557049.40	3777493.38	404.13888	(23010608)
557069.40	3777493.38	383.97864	(23010608)	557089.40	3777493.38	330.06935	(23010608)
557109.40	3777493.38	260.07340	(23010608)	557129.40	3777493.38	187.89856	(23010608)
557149.40	3777493.38	145.63790	(19120408)	557169.40	3777493.38	155.66196	(23010308)
557189.40	3777493.38	171.91562	(23010308)	557209.40	3777493.38	190.15322	(23010308)
557229.40	3777493.38	208.46357	(23010308)	557249.40	3777493.38	226.82587	(23010308)
557269.40	3777493.38	243.58279	(23010308)	557289.40			

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3777493.38      256.60706  (23010308)
        557309.40   3777493.38      264.32611  (23010308)                557329.40
3777493.38      266.35213  (23010308)
        557349.40   3777493.38      262.02152  (23010308)                557369.40
3777493.38      251.33910  (23010308)
        557389.40   3777493.38      235.78196  (23010308)                557409.40
3777493.38      216.22338  (23010308)
        557429.40   3777493.38      193.23909  (23010308)                557449.40
3777493.38      170.57000  (23010308)
        557469.40   3777493.38      166.74174  (19011508)                557489.40
3777493.38      164.02798  (19011508)
        556509.40   3777513.38      288.46412  (21010508)                556529.40
3777513.38      402.16570  (21010508)
        556549.40   3777513.38      581.00816  (21010508)                556569.40
3777513.38      792.03678  (21010508)
        556589.40   3777513.38      921.04461  (21010508)                556609.40
3777513.38      889.32867  (21010508)
        556629.40   3777513.38      760.29157  (21012908)                556649.40
3777513.38      761.02425  (21012908)
        556669.40   3777513.38      654.53858  (21012908)                556689.40
3777513.38      525.44320  (19012408)
        556709.40   3777513.38      521.75761  (19012408)                556729.40
3777513.38      460.35758  (18122708)
        556749.40   3777513.38      515.79578  (18122708)                556769.40
3777513.38      488.97152  (18123108)
        556789.40   3777513.38      396.35678  (18123108)                556809.40
3777513.38      283.69493  (18123108)
        556829.40   3777513.38      200.37569  (18123108)                556849.40
3777513.38      147.31651  (18123108)
        556869.40   3777513.38      141.72407  (19112908)                556889.40
3777513.38      121.67137  (20112708)
        556909.40   3777513.38      155.53715  (21012508)                556929.40
3777513.38      221.21361  (21012508)
        556949.40   3777513.38      284.12594  (21012508)                556969.40
3777513.38      314.68332  (21012508)
        556989.40   3777513.38      298.77546  (21012508)                557009.40
3777513.38      271.73534  (23010608)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE 119
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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                 L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                 L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                 L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557029.40   3777513.38      327.79366  (23010608)               557049.40
3777513.38      365.25950  (23010608)
        557069.40   3777513.38      370.76214  (23010608)               557089.40
3777513.38      343.03300  (23010608)
        557109.40   3777513.38      290.49151  (23010608)               557129.40
3777513.38      226.08626  (23010608)
        557149.40   3777513.38      163.54091  (23010608)               557169.40
3777513.38      133.76225  (19120408)
        557189.40   3777513.38      135.61528  (23010308)               557209.40
3777513.38      150.70762  (23010308)
        557229.40   3777513.38      166.08621  (23010308)               557249.40
3777513.38      183.25534  (23010308)
        557269.40   3777513.38      200.18003  (23010308)               557289.40
3777513.38      216.13866  (23010308)
        557309.40   3777513.38      230.20500  (23010308)               557329.40
3777513.38      240.41041  (23010308)
        557349.40   3777513.38      245.55059  (23010308)               557369.40
3777513.38      245.05909  (23010308)
        557389.40   3777513.38      239.45790  (23010308)               557409.40
3777513.38      228.84922  (23010308)
        557429.40   3777513.38      213.30833  (23010308)               557449.40
3777513.38      195.09399  (23010308)
        557469.40   3777513.38      175.30831  (23010308)               557489.40
3777513.38      154.91847  (23010308)
        556509.40   3777533.38      357.78672  (21010508)               556529.40
3777533.38      512.66698  (21010508)
        556549.40   3777533.38      697.98492  (21010508)               556569.40
3777533.38      839.96911  (21010508)
        556589.40   3777533.38      856.70489  (21010508)               556609.40
3777533.38      734.05173  (21010508)
        556629.40   3777533.38      722.05082  (21012908)               556649.40
3777533.38      663.73816  (21012908)
        556669.40   3777533.38      530.58357  (21012908)               556689.40
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3777533.38      501.71319  (19012408)
        556709.40   3777533.38      464.08268  (19012408)                556729.40
3777533.38      456.14232  (18122708)
        556749.40   3777533.38      483.95004  (18122708)                556769.40
3777533.38      444.62558  (18123108)
        556789.40   3777533.38      350.88161  (18123108)                556809.40
3777533.38      248.74282  (18123108)
        556829.40   3777533.38      176.01686  (18123108)                556849.40
3777533.38      128.83509  (20112708)
        556869.40   3777533.38      130.93517  (19112908)                556889.40
3777533.38      113.65404  (20112708)
        556909.40   3777533.38      131.69222  (21012508)                556929.40
3777533.38      186.30742  (21012508)
        556949.40   3777533.38      246.01349  (21012508)                556969.40
3777533.38      285.72421  (21012508)
        556989.40   3777533.38      287.85085  (21012508)                557009.40
3777533.38      251.56684  (21012508)
        557029.40   3777533.38      272.64147  (23010608)                557049.40
3777533.38      318.47841  (23010608)
        557069.40   3777533.38      343.32311  (23010608)                557089.40
3777533.38      339.16228  (23010608)
        557109.40   3777533.38      307.34578  (23010608)                557129.40
3777533.38      256.67834  (23010608)
        557149.40   3777533.38      198.50074  (23010608)                557169.40
3777533.38      143.02849  (23010608)
        557189.40   3777533.38      123.33159  (19120408)                557209.40
3777533.38      119.62510  (23010308)
        557229.40   3777533.38      132.03566  (23010308)                557249.40
3777533.38      146.38629  (23010308)
        557269.40   3777533.38      161.28128  (23010308)                557289.40
3777533.38      176.96608  (23010308)
        557309.40   3777533.38      192.39998  (23010308)                557329.40
3777533.38      206.40746  (23010308)
        557349.40   3777533.38      217.79551  (23010308)                557369.40
3777533.38      225.10404  (23010308)
        557389.40   3777533.38      227.53983  (23010308)                557409.40
3777533.38      226.09683  (23010308)
        557429.40   3777533.38      219.33003  (23010308)                557449.40
3777533.38      208.56240  (23010308)
        557469.40   3777533.38      193.89934  (23010308)                557489.40
3777533.38      177.09559  (23010308)
        556509.40   3777553.38      452.72742  (21010508)                556529.40
3777553.38      620.76359  (21010508)
        556549.40   3777553.38      765.20654  (21010508)                556569.40
3777553.38      817.55711  (21010508)
        556589.40   3777553.38      739.92834  (21010508)                556609.40
3777553.38      672.70672  (21012908)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
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                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000059   , L0000060   , L0000061   , L0000062
, L0000063   , L0000064   , L0000065   ,
                  L0000066   , L0000067   , L0000068   , L0000069   , L0000070
, L0000045   , L0000046   , L0000047   ,
                  L0000048   , L0000049   , L0000050   , L0000051   , L0000052
, L0000053   , L0000054   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
3777553.38      320.71185  (23010608)
        557109.40   3777553.38      309.02750  (23010608)                557129.40
3777553.38      275.27854  (23010608)
        557149.40   3777553.38      227.03132  (23010608)                557169.40
3777553.38      174.17353  (23010608)
        557189.40   3777553.38      125.72729  (23010608)                557209.40
3777553.38      114.38391  (19120408)
        557229.40   3777553.38      105.34795  (23010308)                557249.40
3777553.38      116.68745  (23010308)
        557269.40   3777553.38      129.12637  (23010308)                557289.40
3777553.38      142.65929  (23010308)
        557309.40   3777553.38      156.90337  (23010308)                557329.40
3777553.38      171.27365  (23010308)
        557349.40   3777553.38      185.07206  (23010308)                557369.40
3777553.38      196.94875  (23010308)
        557389.40   3777553.38      205.45434  (23010308)                557409.40
3777553.38      210.81854  (23010308)
        557429.40   3777553.38      211.88162  (23010308)                557449.40
3777553.38      208.82980  (23010308)
        557469.40   3777553.38      201.46908  (23010308)                557489.40
3777553.38      190.14418  (23010308)
        557438.91   3777336.71      315.35735  (23010408)                556615.91
3777136.99     1622.38006  (19011408)
        556586.37   3777056.16      439.03079  (23011008)                556672.35
3776929.14     1123.45051  (23011008)
        556692.35   3776929.14     1234.31279  (23011008)                556712.35
3776929.14     1069.07942  (23011008)
        556732.35   3776929.14      709.57569  (23011008)                556752.35
3776929.14      510.60784  (21120908)
        556772.35   3776929.14      696.52102  (21012208)                556792.35
3776929.14      968.41387  (21012208)
        556812.35   3776929.14      983.50965  (21012208)                556832.35
3776929.14      940.48254  (18010908)
        556852.35   3776929.14      895.94545  (18011608)                556672.35
3776949.14      991.50268  (23011008)
        556692.35   3776949.14     1285.84598  (23011008)                556712.35
3776949.14     1276.39374  (23011008)
        556732.35   3776949.14      996.54226  (23011008)                556752.35
3776949.14      604.24589  (21120908)
        556772.35   3776949.14      668.24300  (21012208)                556792.35
3776949.14     1005.13020  (21012208)
        556812.35   3776949.14     1067.92532  (21012208)                556832.35
3776949.14     1009.69316  (18010908)
        556852.35   3776949.14      957.99878  (18011608)                556672.35
3776969.14      782.59043  (23011008)
        556692.35   3776969.14     1214.97956  (23011008)                556712.35
3776969.14     1417.56341  (23011008)
        556732.35   3776969.14     1274.01965  (23011008)                556752.35
3776969.14      881.10162  (23011008)
        556772.35   3776969.14      633.14004  (21012208)                556792.35
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3776969.14   1033.91498 (21012208)
        556812.35   3776969.14   1150.38847 (21012208)   556832.35
3776969.14   1087.30806 (18010908)
        556852.35   3776969.14   1031.84193 (21123008)   556672.35
3776989.14   568.36976 (23011008)
        556692.35   3776989.14   1015.37156 (23011008)   556712.35
3776989.14   1445.04454 (23011008)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002
, L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000059   , L0000060   , L0000061   , L0000062
, L0000063   , L0000064   , L0000065   ,
                  L0000066   , L0000067   , L0000068   , L0000069   , L0000070
, L0000045   , L0000046   , L0000047   ,
                  L0000048   , L0000049   , L0000050   , L0000051   , L0000052
, L0000053   , L0000054   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556732.35   3776989.14   1501.11931 (23011008)   556752.35
3776989.14   1225.64713 (23011008)
        556772.35   3776989.14   718.11421 (23011008)   556792.35
3776989.14   1058.42316 (21012208)
        556812.35   3776989.14   1233.65189 (21012208)   556832.35
3776989.14   1173.09242 (18010908)
        556852.35   3776989.14   1190.23974 (20010108)   556672.35
3777009.14   419.18651 (23011008)
        556692.35   3777009.14   748.08339 (23011008)   556712.35
3777009.14   1307.94415 (23011008)
        556732.35   3777009.14   1646.29458 (23011008)   556752.35
3777009.14   1533.52837 (23011008)
        556772.35   3777009.14   1126.04379 (23011008)   556792.35

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3777009.14     1075.43442  (21012208)
        556812.35   3777009.14     1322.00301  (21012208)              556832.35
3777009.14     1262.73014  (18010908)
        556852.35   3777009.14     1418.93555  (20010108)              556672.35
3777029.14      362.75320  (23011008)
        556692.35   3777029.14      520.08011  (23011008)              556712.35
3777029.14     1019.71455  (23011008)
        556732.35   3777029.14     1634.41052  (23011008)              556752.35
3777029.14     1789.03209  (23011008)
        556772.35   3777029.14     1524.80560  (23011008)              556792.35
3777029.14     1082.76515  (21012208)
        556812.35   3777029.14     1411.26875  (21012208)              556832.35
3777029.14     1369.27058  (21012208)
        556852.35   3777029.14     1679.45795  (20010108)              556672.35
3777049.14      460.29900  (21120708)
        556692.35   3777049.14      548.78933  (20010108)              556712.35
3777049.14      698.92452  (23011008)
        556732.35   3777049.14     1393.76841  (23011008)              556752.35
3777049.14     1949.96553  (23011008)
        556772.35   3777049.14     1871.48615  (23011008)              556792.35
3777049.14     1469.20003  (23011008)
        556812.35   3777049.14     1513.65768  (21012208)              556832.35
3777049.14     1534.92856  (21012208)
        556852.35   3777049.14     1972.98019  (20010108)              556927.54
3776959.53     1157.68904  (23122208)
        556947.54   3776959.53     1117.66781  (19122708)              556967.54
3776959.53     1055.77869  (19122708)
        556987.54   3776959.53      696.10358  (19122708)              557007.54
3776959.53      407.71705  (19122508)
        557027.54   3776959.53      230.77822  (20012108)              557047.54
3776959.53      229.33581  (20012108)
        557067.54   3776959.53      212.84585  (20012108)              557087.54
3776959.53      213.03578  (18120608)
        556927.54   3776979.53     1090.37339  (23122208)              556947.54
3776979.53     1235.73674  (19122708)
        556967.54   3776979.53      945.30565  (19122708)              556987.54
3776979.53      548.23577  (19122508)
        557007.54   3776979.53      294.83799  (19122508)              557027.54
3776979.53      258.01832  (20012108)
        557047.54   3776979.53      238.00796  (20012108)              557067.54
3776979.53      248.55329  (18120608)
        557087.54   3776979.53      268.64443  (18120608)              556927.54
3776999.53     1334.51471  (19122708)
        556947.54   3776999.53     1225.68946  (19122708)              556967.54
3776999.53      750.56898  (19122708)
        556987.54   3776999.53      399.45719  (19122508)              557007.54
3776999.53      293.95635  (20012108)
        557027.54   3776999.53      269.12139  (20012108)              557047.54
3776999.53      293.27396  (18120608)
        557067.54   3776999.53      311.70583  (18120608)              557087.54
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3776999.53      312.35751  (18120608)
        556927.54   3777019.53     1484.40642  (19122708)                556947.54
3777019.53     1068.80619  (19122708)
        556967.54   3777019.53      559.17113  (19122508)                556987.54
3777019.53      340.15423  (20012108)
        557007.54   3777019.53      313.78565  (18120608)                557027.54
3777019.53      350.30315  (18120608)
        557047.54   3777019.53      364.08939  (18120608)                557067.54
3777019.53      354.53889  (18120608)
        557087.54   3777019.53      327.36981  (18120608)                556927.54
3777039.53     1457.60761  (19122708)
        556947.54   3777039.53      813.67212  (19122708)                556967.54
3777039.53      401.53703  (20012108)
        556987.54   3777039.53      387.25308  (18120608)                557007.54
3777039.53      424.42009  (18120608)
        557027.54   3777039.53      428.07447  (18120608)                557047.54
3777039.53      402.00598  (18120608)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                 L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                 L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        557067.54   3777039.53      357.56073  (18120608)                557087.54
3777039.53      306.45056  (18120608)
        557047.54   3777059.53      384.44690  (18120608)                557067.54
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3777059.53      315.00155  (18120608)
        557087.54   3777059.53      254.75546  (18120608)                556919.02
3777174.93     2020.49915  (19020608)
        556939.02   3777174.93     1649.76101  (19020608)                556919.02
3777194.93     2241.34011  (23010408)
        556939.02   3777194.93     1914.90658  (23010408)                556919.02
3777214.93     1862.58087  (23010408)
        556939.02   3777214.93     1733.52459  (23010408)                556919.02
3777234.93     1635.93469  (23010308)
        556939.02   3777234.93     1463.25735  (23010408)                556919.02
3777254.93     1508.63147  (23010308)
        556939.02   3777254.93     1353.07655  (23010308)                557023.57
3777171.57      851.37507  (19020608)
        557043.57   3777171.57      757.89243  (19020608)                557063.57
3777171.57      679.60928  (19020608)
        557083.57   3777171.57      614.67825  (19020608)                557023.57
3777191.57      903.32249  (19020608)
        557043.57   3777191.57      821.01012  (19020608)                557063.57
3777191.57      748.65555  (19020608)
        557083.57   3777191.57      687.45504  (19020608)                557023.57
3777211.57     1050.06998  (23010408)
        557043.57   3777211.57      865.69303  (23010408)                557063.57
3777211.57      702.66859  (23010408)
        557083.57   3777211.57      573.95485  (19020608)                557023.57
3777231.57     1170.19975  (23010408)
        557043.57   3777231.57     1069.86082  (23010408)                557063.57
3777231.57      956.66502  (23010408)
        557083.57   3777231.57      819.06041  (23010408)                557023.57
3777251.57     1001.43960  (23010408)
        557043.57   3777251.57      979.30200  (23010408)                557063.57
3777251.57      946.67850  (23010408)
        557083.57   3777251.57      869.20827  (23010408)                556249.05
3776972.85       90.28057  (20121008)
        556269.05   3776972.85       71.08578  (20121008)                556229.05
3776992.85      206.39005  (20121008)
        556249.05   3776992.85      181.60778  (20121008)                556269.05
3776992.85      157.47600  (20121008)
        556289.05   3776992.85      132.38036  (20121008)                556309.05
3776992.85      107.45328  (20121008)
        556329.05   3776992.85       82.15464  (20121008)                556209.05
3777012.85      323.35769  (20121008)
        556229.05   3777012.85      310.35402  (20121008)                556249.05
3777012.85      294.27239  (20121008)
        556269.05   3777012.85      274.70779  (20121008)                556289.05
3777012.85      251.49333  (20121008)
        556309.05   3777012.85      222.93269  (20121008)                556329.05
3777012.85      194.66715  (20121008)
        556209.05   3777032.85      377.63698  (20121008)                556229.05
3777032.85      383.32107  (20121008)
        556249.05   3777032.85      384.53485  (20121008)                556269.05
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3777032.85      380.87800  (20121008)
        556289.05   3777032.85      372.48183  (20121008)                556309.05
3777032.85      357.83488  (20121008)
        556209.05   3777052.85      373.17137  (20121008)                556229.05
3777052.85      394.48510  (20121008)
        556249.05   3777052.85      412.97257  (20121008)                556269.05
3777052.85      429.59072  (20121008)
        556289.05   3777052.85      442.32003  (20121008)                556309.05
3777052.85      450.61755  (20121008)
        556249.05   3777072.85      377.46788  (20121008)                556269.05
3777072.85      405.98351  (20121008)
        556289.05   3777072.85      434.28425  (20121008)                556269.05
3777092.85      532.96796  (19011408)
        556441.69   3776927.49      265.99089  (21120708)                556461.69
3776927.49      265.87390  (21120708)
        556481.69   3776927.49      246.63440  (21120708)                556421.69
3776947.49      232.03472  (21120708)
        556441.69   3776947.49      256.63398  (21120708)                556461.69
3776947.49      278.50930  (21120708)
        556481.69   3776947.49      287.63190  (21120708)                556401.69
3776967.49      184.36854  (21120708)
        556421.69   3776967.49      206.82615  (21120708)                556441.69
3776967.49      230.54722  (21120708)
        556461.69   3776967.49      258.15292  (21120708)                556481.69
3776967.49      286.56600  (21120708)
        556401.69   3776987.49      165.83443  (21120708)                556421.69
3776987.49      186.47314  (21120708)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 123
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                 L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                 L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                 L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556441.69	3776987.49	208.15598	(21120708)	556461.69	3776987.49	231.77432	(21120708)
556481.69	3776987.49	260.70008	(21120708)	556421.69	3777007.49	168.11411	(21120708)
556441.69	3777007.49	190.64732	(21120708)	556461.69	3777007.49	212.21839	(21120708)
556481.69	3777007.49	235.76238	(21120708)	556441.69	3777027.49	170.42633	(21120708)
556461.69	3777027.49	196.67901	(21120708)	556481.69	3777027.49	221.62400	(21120708)
556251.24	3777154.95	852.92269	(19011408)	556261.28	3777141.20	902.40132	(19011408)
556264.98	3777168.16	803.80791	(19011408)	556279.25	3777151.77	926.08627	(19011408)
556202.60	3777113.45	713.33840	(19011408)	556220.05	3777109.75	698.82862	(19011408)
556187.53	3777090.19	518.41544	(19011408)	556164.27	3777121.38	716.08572	(19011408)
557510.26	3776508.23	127.25923	(20012108)	557530.26	3776508.23	117.71848	(20012108)
557550.26	3776508.23	106.18479	(20012108)	557570.26	3776508.23	103.15903	(21121508)
557590.26	3776508.23	104.02349	(21121508)	557610.26	3776508.23	103.11486	(21121508)
557630.26	3776508.23	99.74633	(21121508)	557650.26	3776508.23	94.91195	(21121508)
557670.26	3776508.23	91.09919	(18120608)	557690.26	3776508.23	101.36694	(18120608)
557510.26	3776528.23	120.07678	(20012108)	557530.26	3776528.23	108.24377	(20012108)
557550.26	3776528.23	105.59070	(21121508)	557570.26	3776528.23	105.34790	(21121508)
557590.26	3776528.23	103.66637	(21121508)	557610.26	3776528.23	100.08142	(21121508)
557630.26	3776528.23	94.99295	(21121508)	557650.26	3776528.23	97.65505	(18120608)
557670.26	3776528.23	107.93825	(18120608)	557690.26	3776528.23	117.38003	(18120608)
557510.26	3776548.23	109.75661	(20012108)	557530.26	3776548.23	107.56383	(21121508)
557550.26	3776548.23	106.24218	(21121508)	557570.26	3776548.23	103.18288	(21121508)
557590.26	3776548.23	99.48008	(21121508)	557610.26			

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3776548.23       93.93152  (21121508)
        557630.26   3776548.23      103.16554  (18120608)                557650.26
3776548.23      113.88557  (18120608)
        557670.26   3776548.23      122.75853  (18120608)                557690.26
3776548.23      130.37149  (18120608)
        557510.26   3776568.23      107.96049  (21121508)                557530.26
3776568.23      107.62566  (21121508)
        557550.26   3776568.23      103.96081  (21121508)                557570.26
3776568.23       98.28014  (21121508)
        557590.26   3776568.23       97.60559  (18120608)                557610.26
3776568.23      107.86070  (18120608)
        557630.26   3776568.23      117.50852  (18120608)                557650.26
3776568.23      126.76996  (18120608)
        557670.26   3776568.23      132.93372  (18120608)                557690.26
3776568.23      136.88459  (18120608)
        557510.26   3776588.23      106.89581  (21121508)                557530.26
3776588.23      104.27472  (21121508)
        557550.26   3776588.23       98.47472  (21121508)                557570.26
3776588.23      102.32700  (18120608)
        557590.26   3776588.23      111.17456  (18120608)                557610.26
3776588.23      119.38947  (18120608)
        557630.26   3776588.23      127.62517  (18120608)                557650.26
3776588.23      133.93005  (18120608)
        557670.26   3776588.23      137.64708  (18120608)                557690.26
3776588.23      139.18724  (18120608)
        557510.26   3776608.23      101.90963  (21121508)                557530.26
3776608.23       98.26593  (18120608)
        557550.26   3776608.23      107.39765  (18120608)                557570.26
3776608.23      114.85477  (18120608)
        557590.26   3776608.23      120.29296  (18120608)                557610.26
3776608.23      125.64047  (18120608)
        557630.26   3776608.23      131.15887  (18120608)                557650.26
3776608.23      134.07997  (18120608)
        557670.26   3776608.23      134.24050  (18120608)                557690.26
3776608.23      132.32149  (18120608)
        557510.26   3776628.23      101.75131  (18120608)                557530.26
3776628.23      110.86881  (18120608)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:13:13

                                  PAGE 124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
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                 L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                 L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                 L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557550.26   3776628.23      116.59273  (18120608)               557570.26
3776628.23      124.02500  (18120608)
        557590.26   3776628.23      123.48012  (18120608)               557610.26
3776628.23      125.59178  (18120608)
        557630.26   3776628.23      127.16707  (18120608)               557650.26
3776628.23      128.43354  (18120608)
        557670.26   3776628.23      126.17323  (18120608)               557690.26
3776628.23      122.73796  (18120608)
        557510.26   3776648.23      111.06288  (18120608)               557530.26
3776648.23      115.96163  (18120608)
        557550.26   3776648.23      117.57902  (18120608)               557570.26
3776648.23      116.55772  (18120608)
        557590.26   3776648.23      118.24419  (18120608)               557610.26
3776648.23      116.08221  (18120608)
        557630.26   3776648.23      117.06971  (18120608)               557650.26
3776648.23      116.93118  (18120608)
        557670.26   3776648.23      112.77548  (18120608)               557690.26
3776648.23      108.55135  (18120608)
        557510.26   3776668.23      108.62571  (18120608)               557530.26
3776668.23      109.96249  (18120608)
        557550.26   3776668.23      108.11909  (18120608)               557570.26
3776668.23      104.58860  (18120608)
        557590.26   3776668.23      106.90541  (18120608)               557610.26
3776668.23      102.52913  (18120608)
        557630.26   3776668.23      100.62628  (18120608)               557650.26
3776668.23       99.70422  (18120608)
        557670.26   3776668.23       97.12031  (18120608)               557690.26
3776668.23       92.83828  (18120608)
        557510.26   3776688.23      102.05308  (18120608)               557530.26
3776688.23      101.96016  (18120608)
        557550.26   3776688.23      100.82473  (18120608)               557570.26
3776688.23      100.22974  (18120608)
        557590.26   3776688.23       98.57999  (18120608)               557610.26
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3776688.23       94.60213  (18120608)
        557630.26   3776688.23       92.46689  (18120608)                557650.26
3776688.23       88.69103  (18120608)
        557670.26   3776688.23       84.13326  (18120608)                557690.26
3776688.23       79.10884  (18120608)
        556172.49   3776517.81       23.50154  (23122209)                556192.49
3776517.81       33.97266  (23011008)
        556212.49   3776517.81       48.92338  (23011008)                556232.49
3776517.81       66.22967  (23011008)
        556252.49   3776517.81       82.97559  (23011008)                556272.49
3776517.81       97.91036  (23011008)
        556292.49   3776517.81      108.17110  (23011008)                556312.49
3776517.81      114.22385  (23011008)
        556332.49   3776517.81      122.69345  (23011008)                556352.49
3776517.81      140.18102  (23011008)
        556372.49   3776517.81      177.78910  (23011008)                556392.49
3776517.81      253.29600  (23011008)
        556412.49   3776517.81      338.67446  (23011008)                556432.49
3776517.81      395.04794  (23011008)
        556452.49   3776517.81      387.14070  (23011008)                556472.49
3776517.81      323.02686  (23011008)
        556492.49   3776517.81      219.07905  (23011008)                556172.49
3776537.81       33.59526  (23122209)
        556192.49   3776537.81       25.53655  (23011008)                556212.49
3776537.81       39.84540  (23011008)
        556232.49   3776537.81       56.87073  (23011008)                556252.49
3776537.81       74.94832  (23011008)
        556272.49   3776537.81       90.97680  (23011008)                556292.49
3776537.81      105.38419  (23011008)
        556312.49   3776537.81      113.90202  (23011008)                556332.49
3776537.81      120.59918  (23011008)
        556352.49   3776537.81      130.02717  (23011008)                556372.49
3776537.81      153.39017  (23011008)
        556392.49   3776537.81      204.69603  (23011008)                556412.49
3776537.81      291.71224  (23011008)
        556432.49   3776537.81      376.39279  (23011008)                556452.49
3776537.81      409.85707  (23011008)
        556472.49   3776537.81      382.83005  (23011008)                556492.49
3776537.81      293.66623  (23011008)
        556332.49   3776557.81      121.49734  (23011008)                556352.49
3776557.81      124.94477  (23011008)
        556372.49   3776557.81      139.13970  (23011008)                556392.49
3776557.81      173.56842  (23011008)
        556412.49   3776557.81      246.79999  (23011008)                556432.49
3776557.81      338.92894  (23011008)
        556452.49   3776557.81      408.75029  (23011008)                556472.49
3776557.81      423.55793  (23011008)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
```

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000001   , L0000002 , L0000003   , L0000004   , L0000005   ,
                  L0000006   , L0000059   , L0000060   , L0000061   , L0000062 , L0000063   , L0000064   , L0000065   ,
                  L0000066   , L0000067   , L0000068   , L0000069   , L0000070 , L0000045   , L0000046   , L0000047   ,
                  L0000048   , L0000049   , L0000050   , L0000051   , L0000052 , L0000053   , L0000054   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        556492.49   3776557.81   366.46914 (23011008)   556332.49   3776577.81   120.54483 (23011008)
        556352.49   3776577.81   126.17122 (23011008)   556372.49   3776577.81   132.66330 (23011008)
        556392.49   3776577.81   153.86685 (23011008)   556412.49   3776577.81   206.03994 (23011008)
        556432.49   3776577.81   289.71201 (23011008)   556452.49   3776577.81   385.10065 (23011008)
        556472.49   3776577.81   444.31009 (23011008)   556492.49   3776577.81   427.23300 (23011008)
        556332.49   3776597.81   120.64704 (23011008)   556352.49   3776597.81   127.78626 (23011008)
        556372.49   3776597.81   131.56306 (23011008)   556392.49   3776597.81   139.31021 (23011008)
        556412.49   3776597.81   173.26492 (23011008)   556432.49   3776597.81   239.21035 (23011008)
        556452.49   3776597.81   334.19823 (23011008)   556472.49   3776597.81   426.47760 (23011008)
        556492.49   3776597.81   465.05382 (23011008)   556252.49   3776617.81   41.02246 (23122209)
        556272.49   3776617.81   55.06837 (23011008)   556292.49   3776617.81   77.35344 (23011008)
        556312.49   3776617.81   99.73157 (23011008)   556332.49

```
3776617.81      115.85286  (23011008)
        556352.49   3776617.81      128.72546  (23011008)                556372.49
3776617.81      134.84377  (23011008)
        556392.49   3776617.81      138.12824  (23011008)                556412.49
3776617.81      155.12382  (23011008)
        556432.49   3776617.81      197.64520  (23011008)                556452.49
3776617.81      284.91833  (23011008)
        556472.49   3776617.81      386.38394  (23011008)                556492.49
3776617.81      472.12862  (23011008)
        556252.49   3776637.81       52.67320  (23122209)                556272.49
3776637.81       44.66684  (23011008)
        556292.49   3776637.81       65.77665  (23011008)                556312.49
3776637.81       89.05269  (23011008)
        556332.49   3776637.81      111.79567  (23011008)                556352.49
3776637.81      127.25252  (23011008)
        556372.49   3776637.81      137.15850  (23011008)                556392.49
3776637.81      139.04313  (23011008)
        556412.49   3776637.81      145.53183  (23011008)                556432.49
3776637.81      169.70580  (23011008)
        556452.49   3776637.81      230.60478  (23011008)                556472.49
3776637.81      334.83144  (23011008)
        556492.49   3776637.81      446.78044  (23011008)                556252.49
3776657.81       60.97656  (23122209)
        556272.49   3776657.81       55.32842  (23122209)                556292.49
3776657.81       54.49464  (23011008)
        556312.49   3776657.81       76.73117  (23011008)                556332.49
3776657.81      103.03820  (23011008)
        556352.49   3776657.81      124.41093  (23011008)                556372.49
3776657.81      138.39532  (23011008)
        556392.49   3776657.81      141.41671  (23011008)                556412.49
3776657.81      143.38238  (23011008)
        556432.49   3776657.81      153.15910  (23011008)                556452.49
3776657.81      190.43380  (23011008)
        556472.49   3776657.81      273.27357  (23011008)                556492.49
3776657.81      395.33320  (23011008)
        556252.49   3776677.81       63.82613  (23122209)                556272.49
3776677.81       63.47693  (23122209)
        556292.49   3776677.81       58.23792  (23122209)                556312.49
3776677.81       64.59110  (23011008)
        556332.49   3776677.81       91.52498  (23011008)                556352.49
3776677.81      117.46275  (23011008)
        556372.49   3776677.81      136.15159  (23011008)                556392.49
3776677.81      144.40235  (23011008)
        556412.49   3776677.81      148.09727  (23011008)                556432.49
3776677.81      148.26101  (23011008)
        556452.49   3776677.81      164.93079  (23011008)                556472.49
3776677.81      221.44170  (23011008)
        556492.49   3776677.81      329.94920  (23011008)                556252.49
3776697.81       61.25750  (19020508)
        556272.49   3776697.81       65.69286  (23122209)                556372.49
```

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3776697.81      131.04179  (23011008)
        556392.49   3776697.81      143.83606  (23011008)                556412.49
3776697.81      150.81348  (23011008)
        556432.49   3776697.81      150.12868  (23011008)                556452.49
3776697.81      153.48489  (23011008)
        556472.49   3776697.81      183.79693  (23011008)                556492.49
3776697.81      264.90025  (23011008)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:13:13

                                 PAGE 126
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000001    , L0000002
, L0000003    , L0000004    , L0000005    ,
                  L0000006    , L0000059    , L0000060    , L0000061    , L0000062
, L0000063    , L0000064    , L0000065    ,
                  L0000066    , L0000067    , L0000068    , L0000069    , L0000070
, L0000045    , L0000046    , L0000047    ,
                  L0000048    , L0000049    , L0000050    , L0000051    , L0000052
, L0000053    , L0000054    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556252.49   3776717.81       70.21314  (19020508)                556272.49
3776717.81       66.38723  (19020508)
        556372.49   3776717.81      121.85013  (23011008)                556392.49
3776717.81      140.87995  (23011008)
        556412.49   3776717.81      153.65557  (23011008)                556432.49
3776717.81      154.96805  (23011008)
        556452.49   3776717.81      153.03011  (23011008)                556472.49
3776717.81      168.30437  (23011008)
        556492.49   3776717.81      213.62658  (23011008)                556267.40
3776875.81      148.28634  (21120708)
        556239.03   3776853.02      145.68287  (21120708)                556178.76
3776751.21      163.40889  (21120708)
        556154.45   3776774.51      148.98522  (21120708)                556119.50
```

*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3
**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ONSITE	1ST HIGHEST VALUE IS	10.42138	AT (556919.02, 3777174.93, 975.11, 975.11, 0.00)	DC	
	2ND HIGHEST VALUE IS	8.96896	AT (556919.02, 3777194.93, 975.13, 975.13, 0.00)	DC	
	3RD HIGHEST VALUE IS	6.81649	AT (556919.02, 3777214.93, 974.11, 974.83, 0.00)	DC	
	4TH HIGHEST VALUE IS	6.05233	AT (556939.02, 3777174.93, 975.07, 975.07, 0.00)	DC	
	5TH HIGHEST VALUE IS	5.59437	AT (556939.02, 3777194.93, 975.02, 975.02, 0.00)	DC	
	6TH HIGHEST VALUE IS	4.97725	AT (556919.02, 3777234.93, 974.22, 974.22, 0.00)	DC	
	7TH HIGHEST VALUE IS	4.87732	AT (556852.35, 3777049.14, 979.74, 979.74, 0.00)	DC	
	8TH HIGHEST VALUE IS	4.65612	AT (556939.02, 3777214.93, 974.76, 974.76, 0.00)	DC	
	9TH HIGHEST VALUE IS	4.12549	AT (556832.35, 3777049.14, 979.91, 979.91, 0.00)	DC	
	10TH HIGHEST VALUE IS	3.65330	AT (556939.02, 3777234.93, 974.60, 974.60, 0.00)	DC	

```
OFFSITE   1ST HIGHEST VALUE IS      13.52027 AT (  556919.02,  3777254.93,   973.97,
  974.65,    0.00)  DC
          2ND HIGHEST VALUE IS      10.52722 AT (  556919.02,  3777234.93,   974.22,
  974.22,    0.00)  DC
          3RD HIGHEST VALUE IS       8.87301 AT (  556939.02,  3777254.93,   974.28,
  974.28,    0.00)  DC
          4TH HIGHEST VALUE IS       8.45134 AT (  556919.02,  3777214.93,   974.11,
  974.83,    0.00)  DC
          5TH HIGHEST VALUE IS       6.79898 AT (  556939.02,  3777234.93,   974.60,
  974.60,    0.00)  DC
          6TH HIGHEST VALUE IS       6.48246 AT (  556919.02,  3777194.93,   975.13,
  975.13,    0.00)  DC
          7TH HIGHEST VALUE IS       5.51528 AT (  556939.02,  3777214.93,   974.76,
  974.76,    0.00)  DC
          8TH HIGHEST VALUE IS       5.01328 AT (  556919.02,  3777174.93,   975.11,
  975.11,    0.00)  DC
          9TH HIGHEST VALUE IS       4.72716 AT (  556615.91,  3777136.99,   979.24,
  979.24,    0.00)  DC
         10TH HIGHEST VALUE IS       4.51474 AT (  556939.02,  3777194.93,   975.02,
  975.02,    0.00)  DC

ALL       1ST HIGHEST VALUE IS      17.12826 AT (  556919.02,  3777254.93,   973.97,
  974.65,    0.00)  DC
          2ND HIGHEST VALUE IS      15.50447 AT (  556919.02,  3777234.93,   974.22,
  974.22,    0.00)  DC
          3RD HIGHEST VALUE IS      15.45142 AT (  556919.02,  3777194.93,   975.13,
  975.13,    0.00)  DC
          4TH HIGHEST VALUE IS      15.43466 AT (  556919.02,  3777174.93,   975.11,
  975.11,    0.00)  DC
          5TH HIGHEST VALUE IS      15.26783 AT (  556919.02,  3777214.93,   974.11,
  974.83,    0.00)  DC
          6TH HIGHEST VALUE IS      11.67878 AT (  556939.02,  3777254.93,   974.28,
  974.28,    0.00)  DC
          7TH HIGHEST VALUE IS      10.45228 AT (  556939.02,  3777234.93,   974.60,
  974.60,    0.00)  DC
          8TH HIGHEST VALUE IS      10.17140 AT (  556939.02,  3777214.93,   974.76,
  974.76,    0.00)  DC
          9TH HIGHEST VALUE IS      10.10911 AT (  556939.02,  3777194.93,   975.02,
  975.02,    0.00)  DC
         10TH HIGHEST VALUE IS       9.77872 AT (  556939.02,  3777174.93,   975.07,
  975.07,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
```

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ONSITE	HIGH 1ST HIGH VALUE IS	2029.91153	ON 23010408: AT (556919.02, 3777194.93, 975.13, 975.13, 0.00)	DC	
OFFSITE	HIGH 1ST HIGH VALUE IS	1047.12512	ON 23010408: AT (556919.02, 3777234.93, 974.22, 974.22, 0.00)	DC	
ALL	HIGH 1ST HIGH VALUE IS	2241.34011	ON 23010408: AT (556919.02, 3777194.93, 975.13, 975.13, 0.00)	DC	

 *** RECEPTOR TYPES: GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of   0 Fatal Error Message(s)
 A Total of   4 Warning Message(s)

```
 A Total of         2103 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          918 Calm Hours Identified

 A Total of         1185 Missing Hours Identified (  2.70 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***

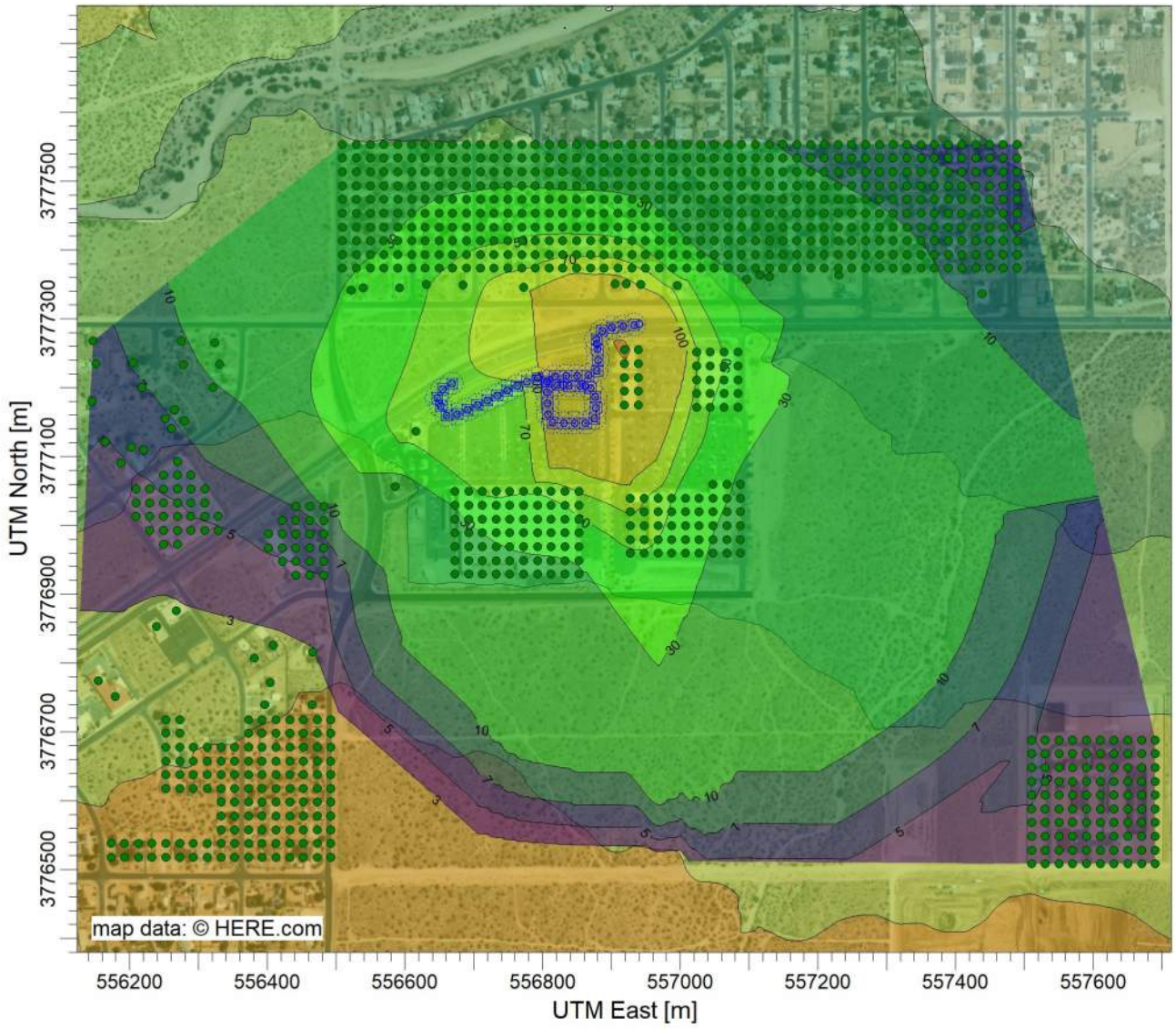

    ********   WARNING MESSAGES   ********
 ME W186     596       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     596       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   35065       CHKDAT: Record Out of Sequence in Meteorological File at:
 23010101
 MX W450   35065       CHKDAT: Record Out of Sequence in Meteorological File at:
1 year gap

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

PROJECT TITLE:

Yucca Valley Walmart Fuel Station
Operational (Truck Deliveries) - Unitized Emissions



PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL ug/m^3

Max: 330 [ug/m^3] at (556919.02, 3777254.93)

3 5 7 10 30 50 70 100 300 330

COMMENTS:	SOURCES: **5**		
	RECEPTORS: **980**		
	OUTPUT TYPE: **Concentration**	SCALE: 1:10,000 0 0.3 km	
	MAX: **330 ug/m^3**		PROJECT NO.:

AERMOD View - Lakes Environmental Software

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 8/25/2025
** File:
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Deliver_Revised\Yucca_Walmart_Deliver_Revi
sed.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL Yucca_Walmart_Deliver_Revised.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Fuel Truck in Offsite 29 Palms HWY
** PREFIX
** Length of Side = 16.00
** Configuration = Adjacent
** Emission Rate = 0.608763693
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 5
** 556941.106, 3777292.230, 971.94, 3.15, 7.44
** 556892.179, 3777285.832, 972.30, 3.15, 7.44
```

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** 556882.018, 3777279.810, 971.73, 3.15, 7.44
** 556877.878, 3777272.659, 971.95, 3.15, 7.44
** 556879.007, 3777264.379, 971.86, 3.15, 7.44
** ----------------------------------------------------------------------
   LOCATION L0000083     VOLUME   556933.173 3777291.192 972.16
   LOCATION L0000084     VOLUME   556917.308 3777289.118 972.34
   LOCATION L0000085     VOLUME   556901.443 3777287.043 972.57
   LOCATION L0000086     VOLUME   556886.452 3777282.438 972.65
   LOCATION L0000087     VOLUME   556878.227 3777270.100 971.88
** End of LINE VOLUME Source ID = SLINE1
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Fuel Truck In Onsite
** PREFIX
** Length of Side = 16.00
** Configuration = Adjacent
** Emission Rate = 0.590231463
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 19
** 556879.163, 3777263.782, 971.85, 3.15, 7.44
** 556881.338, 3777228.432, 973.05, 3.15, 7.44
** 556876.987, 3777220.546, 972.91, 3.15, 7.44
** 556870.733, 3777217.827, 973.07, 3.15, 7.44
** 556811.998, 3777216.196, 975.91, 3.15, 7.44
** 556808.463, 3777215.380, 975.97, 3.15, 7.44
** 556806.016, 3777209.670, 976.25, 3.15, 7.44
** 556807.919, 3777154.197, 977.75, 3.15, 7.44
** 556811.182, 3777150.390, 977.94, 3.15, 7.44
** 556817.164, 3777148.215, 978.05, 3.15, 7.44
** 556841.909, 3777148.487, 977.98, 3.15, 7.44
** 556869.374, 3777148.487, 977.75, 3.15, 7.44
** 556875.900, 3777155.829, 977.31, 3.15, 7.44
** 556878.075, 3777161.539, 976.98, 3.15, 7.44
** 556877.531, 3777170.513, 976.75, 3.15, 7.44
** 556877.531, 3777182.477, 976.41, 3.15, 7.44
** 556875.628, 3777194.442, 975.99, 3.15, 7.44
** 556870.733, 3777199.065, 976.04, 3.15, 7.44
** 556865.023, 3777201.512, 975.93, 3.15, 7.44
** ----------------------------------------------------------------------
   LOCATION L0000088     VOLUME   556879.654 3777255.797 971.82
   LOCATION L0000089     VOLUME   556880.637 3777239.828 972.36
   LOCATION L0000090     VOLUME   556879.124 3777224.419 972.83
   LOCATION L0000091     VOLUME   556865.978 3777217.695 973.25
   LOCATION L0000092     VOLUME   556849.984 3777217.251 974.42
   LOCATION L0000093     VOLUME   556833.990 3777216.807 975.47
   LOCATION L0000094     VOLUME   556817.997 3777216.362 975.92
   LOCATION L0000095     VOLUME   556806.021 3777209.511 976.21
   LOCATION L0000096     VOLUME   556806.570 3777193.521 976.60
```

```
   LOCATION L0000097     VOLUME   556807.118 3777177.530 977.09
   LOCATION L0000098     VOLUME   556807.667 3777161.539 977.58
   LOCATION L0000099     VOLUME   556814.602 3777149.147 977.96
   LOCATION L0000100     VOLUME   556830.438 3777148.361 977.97
   LOCATION L0000101     VOLUME   556846.437 3777148.487 977.90
   LOCATION L0000102     VOLUME   556862.437 3777148.487 977.78
   LOCATION L0000103     VOLUME   556875.395 3777155.261 977.49
   LOCATION L0000104     VOLUME   556877.531 3777170.652 977.02
   LOCATION L0000105     VOLUME   556876.875 3777186.600 976.68
   LOCATION L0000106     VOLUME   556869.513 3777199.587 976.29
** End of LINE VOLUME Source ID = SLINE2
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Fuel Truck Idle
** PREFIX
** Length of Side = 16.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 2
** 556862.492, 3777202.562, 975.77, 3.15, 7.44
** 556828.592, 3777202.562, 976.25, 3.15, 7.44
** ----------------------------------------------------------------------
   LOCATION L0000025     VOLUME   556854.492 3777202.562 975.94
   LOCATION L0000026     VOLUME   556838.492 3777202.562 976.21
** End of LINE VOLUME Source ID = SLINE3
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Fuel Truck Out Onsite
** PREFIX
** Length of Side = 16.00
** Configuration = Adjacent
** Emission Rate = 0.409768537
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 12
** 556829.594, 3777203.564, 976.18, 3.15, 7.44
** 556816.735, 3777203.898, 976.25, 3.15, 7.44
** 556808.051, 3777207.906, 976.20, 3.15, 7.44
** 556801.205, 3777213.750, 976.09, 3.15, 7.44
** 556788.680, 3777213.583, 976.19, 3.15, 7.44
** 556784.338, 3777211.913, 976.23, 3.15, 7.44
** 556765.801, 3777204.232, 976.47, 3.15, 7.44
** 556682.136, 3777163.484, 977.56, 3.15, 7.44
** 556670.613, 3777159.477, 977.78, 3.15, 7.44
** 556661.428, 3777158.976, 977.81, 3.15, 7.44
** 556658.088, 3777164.319, 977.48, 3.15, 7.44
```

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** 556647.568, 3777180.685, 977.16, 3.15, 7.44
** ----------------------------------------------------------------
   LOCATION L0000107     VOLUME   556821.597 3777203.771 976.30
   LOCATION L0000108     VOLUME   556806.855 3777208.927 976.21
   LOCATION L0000109     VOLUME   556792.635 3777213.636 976.17
   LOCATION L0000110     VOLUME   556777.508 3777209.083 976.26
   LOCATION L0000111     VOLUME   556762.810 3777202.775 976.52
   LOCATION L0000112     VOLUME   556748.425 3777195.769 976.73
   LOCATION L0000113     VOLUME   556734.040 3777188.763 976.91
   LOCATION L0000114     VOLUME   556719.656 3777181.758 977.11
   LOCATION L0000115     VOLUME   556705.271 3777174.752 977.32
   LOCATION L0000116     VOLUME   556690.886 3777167.746 977.47
   LOCATION L0000117     VOLUME   556676.217 3777161.426 977.69
   LOCATION L0000118     VOLUME   556660.968 3777159.712 977.71
   LOCATION L0000119     VOLUME   556652.374 3777173.208 977.24
** End of LINE VOLUME Source ID = SLINE4
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
** DESCRSRC Fuel Truck Out Offsite
** PREFIX
** Length of Side = 16.00
** Configuration = Adjacent
** Emission Rate = 0.391236307
** Vertical Dimension = 6.29
** SZINIT = 2.93
** Nodes = 5
** 556649.572, 3777177.679, 977.19, 3.15, 0.00
** 556646.232, 3777183.524, 977.24, 3.15, 7.44
** 556649.405, 3777193.043, 977.44, 3.15, 7.44
** 556658.756, 3777201.393, 977.19, 3.15, 7.44
** 556677.460, 3777210.243, 976.82, 3.15, 7.44
** ----------------------------------------------------------------
   LOCATION L0000120     VOLUME   556646.633 3777184.727 977.19
   LOCATION L0000121     VOLUME   556654.801 3777197.861 977.21
   LOCATION L0000122     VOLUME   556668.426 3777205.968 976.92
** End of LINE VOLUME Source ID = SLINE5
** Source Parameters **
** LINE VOLUME Source ID = SLINE1
   SRCPARAM L0000083     0.1217527386      3.15      7.44      2.93
   SRCPARAM L0000084     0.1217527386      3.15      7.44      2.93
   SRCPARAM L0000085     0.1217527386      3.15      7.44      2.93
   SRCPARAM L0000086     0.1217527386      3.15      7.44      2.93
   SRCPARAM L0000087     0.1217527386      3.15      7.44      2.93
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE2
   SRCPARAM L0000088     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000089     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000090     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000091     0.0310648138      3.15      7.44      2.93
```

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   SRCPARAM L0000092     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000093     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000094     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000095     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000096     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000097     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000098     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000099     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000100     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000101     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000102     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000103     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000104     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000105     0.0310648138      3.15      7.44      2.93
   SRCPARAM L0000106     0.0310648138      3.15      7.44      2.93
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE3
   SRCPARAM L0000025           0.5      3.15      7.44      2.93
   SRCPARAM L0000026           0.5      3.15      7.44      2.93
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE4
   SRCPARAM L0000107     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000108     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000109     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000110     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000111     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000112     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000113     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000114     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000115     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000116     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000117     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000118     0.0315206567      3.15      7.44      2.93
   SRCPARAM L0000119     0.0315206567      3.15      7.44      2.93
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE5
   SRCPARAM L0000120     0.1304121023      3.15      7.44      2.93
   SRCPARAM L0000121     0.1304121023      3.15      7.44      2.93
   SRCPARAM L0000122     0.1304121023      3.15      7.44      2.93
** ------------------------------------------------------------------
   SRCGROUP Onsite   L0000088 L0000089 L0000090 L0000091 L0000092 L0000093
   SRCGROUP Onsite   L0000094 L0000095 L0000096 L0000097 L0000098 L0000099
   SRCGROUP Onsite   L0000100 L0000101 L0000102 L0000103 L0000104 L0000105
   SRCGROUP Onsite   L0000106 L0000107 L0000108 L0000109 L0000110 L0000111
   SRCGROUP Onsite   L0000112 L0000113 L0000114 L0000115 L0000116 L0000117
   SRCGROUP Onsite   L0000118 L0000119
   SRCGROUP Offsite  L0000083 L0000084 L0000085 L0000086 L0000087 L0000120
   SRCGROUP Offsite  L0000121 L0000122
   SRCGROUP Idle     L0000025 L0000026
   SRCGROUP ALL
```

```
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Yucca_Walmart_Deliver_Revised.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\kpsp_sfc_pfl\KPSP_V11_trimmed.sfc
   PROFFILE ..\kpsp_sfc_pfl\KPSP_V11_trimmed.pfl
   SURFDATA 93138 2018 33.63 -116.16
   UAIRDATA 3190 2018
   PROFBASE 125.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST YUCCA_WALMART_DELIVER_REVISED.AD\01H1GALL.PLT 31
   PLOTFILE 1 Onsite 1ST YUCCA_WALMART_DELIVER_REVISED.AD\01H1G001.PLT 32
   PLOTFILE 1 Offsite 1ST YUCCA_WALMART_DELIVER_REVISED.AD\01H1G002.PLT 33
   PLOTFILE 1 Idle 1ST YUCCA_WALMART_DELIVER_REVISED.AD\01H1G003.PLT 34
   PLOTFILE PERIOD ALL YUCCA_WALMART_DELIVER_REVISED.AD\PE00GALL.PLT 35
   PLOTFILE PERIOD Onsite YUCCA_WALMART_DELIVER_REVISED.AD\PE00G001.PLT 36
   PLOTFILE PERIOD Offsite YUCCA_WALMART_DELIVER_REVISED.AD\PE00G002.PLT 37
   PLOTFILE PERIOD Idle YUCCA_WALMART_DELIVER_REVISED.AD\PE00G003.PLT 38
   SUMMFILE Yucca_Walmart_Deliver_Revised.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
```

```
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     270       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     270       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                           ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses RURAL Dispersion Only.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: PM_10
```

```
 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:     42 Source(s);       4 Source Group(s); and     980
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     42 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  22112

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   125.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.8 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Yucca_Walmart_Deliver_Revised.err
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY	AIRCRAFT
L0000083	0	0.12175E+00	556933.2	3777291.2	972.2	3.15	7.44	2.93	NO	NO	
L0000084	0	0.12175E+00	556917.3	3777289.1	972.3	3.15	7.44	2.93	NO	NO	
L0000085	0	0.12175E+00	556901.4	3777287.0	972.6	3.15	7.44	2.93	NO	NO	
L0000086	0	0.12175E+00	556886.5	3777282.4	972.6	3.15	7.44	2.93	NO	NO	
L0000087	0	0.12175E+00	556878.2	3777270.1	971.9	3.15	7.44	2.93	NO	NO	
L0000088	0	0.31065E-01	556879.7	3777255.8	971.8	3.15	7.44	2.93	NO	NO	
L0000089	0	0.31065E-01	556880.6	3777239.8	972.4	3.15	7.44	2.93	NO	NO	
L0000090	0	0.31065E-01	556879.1	3777224.4	972.8	3.15	7.44	2.93	NO	NO	
L0000091	0	0.31065E-01	556866.0	3777217.7	973.2	3.15	7.44	2.93	NO	NO	
L0000092	0	0.31065E-01	556850.0	3777217.3	974.4	3.15	7.44	2.93	NO	NO	
L0000093	0	0.31065E-01	556834.0	3777216.8	975.5	3.15	7.44	2.93	NO	NO	
L0000094	0	0.31065E-01	556818.0	3777216.4	975.9	3.15	7.44	2.93	NO	NO	
L0000095	0	0.31065E-01	556806.0	3777209.5	976.2	3.15	7.44	2.93	NO	NO	

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 L0000096         0   0.31065E-01  556806.6 3777193.5   976.6     3.15     7.44
2.93     NO                    NO
 L0000097         0   0.31065E-01  556807.1 3777177.5   977.1     3.15     7.44
2.93     NO                    NO
 L0000098         0   0.31065E-01  556807.7 3777161.5   977.6     3.15     7.44
2.93     NO                    NO
 L0000099         0   0.31065E-01  556814.6 3777149.1   978.0     3.15     7.44
2.93     NO                    NO
 L0000100         0   0.31065E-01  556830.4 3777148.4   978.0     3.15     7.44
2.93     NO                    NO
 L0000101         0   0.31065E-01  556846.4 3777148.5   977.9     3.15     7.44
2.93     NO                    NO
 L0000102         0   0.31065E-01  556862.4 3777148.5   977.8     3.15     7.44
2.93     NO                    NO
 L0000103         0   0.31065E-01  556875.4 3777155.3   977.5     3.15     7.44
2.93     NO                    NO
 L0000104         0   0.31065E-01  556877.5 3777170.7   977.0     3.15     7.44
2.93     NO                    NO
 L0000105         0   0.31065E-01  556876.9 3777186.6   976.7     3.15     7.44
2.93     NO                    NO
 L0000106         0   0.31065E-01  556869.5 3777199.6   976.3     3.15     7.44
2.93     NO                    NO
 L0000025         0   0.50000E+00  556854.5 3777202.6   975.9     3.15     7.44
2.93     NO                    NO
 L0000026         0   0.50000E+00  556838.5 3777202.6   976.2     3.15     7.44
2.93     NO                    NO
 L0000107         0   0.31521E-01  556821.6 3777203.8   976.3     3.15     7.44
2.93     NO                    NO
 L0000108         0   0.31521E-01  556806.9 3777208.9   976.2     3.15     7.44
2.93     NO                    NO
 L0000109         0   0.31521E-01  556792.6 3777213.6   976.2     3.15     7.44
2.93     NO                    NO
 L0000110         0   0.31521E-01  556777.5 3777209.1   976.3     3.15     7.44
2.93     NO                    NO
 L0000111         0   0.31521E-01  556762.8 3777202.8   976.5     3.15     7.44
2.93     NO                    NO
 L0000112         0   0.31521E-01  556748.4 3777195.8   976.7     3.15     7.44
2.93     NO                    NO
 L0000113         0   0.31521E-01  556734.0 3777188.8   976.9     3.15     7.44
2.93     NO                    NO
 L0000114         0   0.31521E-01  556719.7 3777181.8   977.1     3.15     7.44
2.93     NO                    NO
 L0000115         0   0.31521E-01  556705.3 3777174.8   977.3     3.15     7.44
2.93     NO                    NO
 L0000116         0   0.31521E-01  556690.9 3777167.7   977.5     3.15     7.44
2.93     NO                    NO
 L0000117         0   0.31521E-01  556676.2 3777161.4   977.7     3.15     7.44
2.93     NO                    NO
 L0000118         0   0.31521E-01  556661.0 3777159.7   977.7     3.15     7.44
2.93     NO                    NO
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 L0000119         0   0.31521E-01  556652.4 3777173.2   977.2     3.15     7.44
2.93     NO                     NO
 L0000120         0   0.13041E+00  556646.6 3777184.7   977.2     3.15     7.44
2.93     NO                     NO
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0000121         0   0.13041E+00  556654.8 3777197.9   977.2     3.15     7.44
2.93     NO                     NO
 L0000122         0   0.13041E+00  556668.4 3777206.0   976.9     3.15     7.44
2.93     NO                     NO
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                        *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                        SOURCE IDs
 -----------                                        ----------


  ONSITE     L0000088    , L0000089    , L0000090    , L0000091    , L0000092    ,
L0000093    , L0000094    , L0000095    ,

             L0000096    , L0000097    , L0000098    , L0000099    , L0000100    ,
L0000101    , L0000102    , L0000103    ,
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             L0000104    , L0000105    , L0000106    , L0000107    , L0000108    ,
L0000109    , L0000110    , L0000111    ,

             L0000112    , L0000113    , L0000114    , L0000115    , L0000116    ,
L0000117    , L0000118    , L0000119    ,

  OFFSITE    L0000083    , L0000084    , L0000085    , L0000086    , L0000087    ,
L0000120    , L0000121    , L0000122    ,

  IDLE       L0000025    , L0000026    ,

  ALL        L0000083    , L0000084    , L0000085    , L0000086    , L0000087    ,
L0000088    , L0000089    , L0000090    ,

             L0000091    , L0000092    , L0000093    , L0000094    , L0000095    ,
L0000096    , L0000097    , L0000098    ,

             L0000099    , L0000100    , L0000101    , L0000102    , L0000103    ,
L0000104    , L0000105    , L0000106    ,

             L0000025    , L0000026    , L0000107    , L0000108    , L0000109    ,
L0000110    , L0000111    , L0000112    ,

             L0000113    , L0000114    , L0000115    , L0000116    , L0000117    ,
L0000118    , L0000119    , L0000120    ,

             L0000121    , L0000122    ,
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 556521.7, 3777341.6,     974.8,     974.8,       0.0);         ( 556539.9,
3777344.9,     974.6,     974.6,       0.0);
     ( 556591.8, 3777345.4,     974.7,     974.7,       0.0);         ( 556630.6,
3777349.7,     974.5,     974.5,       0.0);
     ( 556684.3, 3777349.4,     974.0,     974.0,       0.0);         ( 556905.6,
3777351.2,     972.5,     972.5,       0.0);
     ( 556920.9, 3777350.8,     972.0,     972.0,       0.0);         ( 556942.9,
3777350.1,     971.7,     971.7,       0.0);
     ( 556996.3, 3777348.3,     971.4,     971.4,       0.0);         ( 557096.8,
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3777357.8,     968.8,     968.8,       0.0);
     ( 557115.8, 3777363.6,     968.3,     968.3,       0.0);         ( 557129.4,
3777361.4,     967.9,     967.9,       0.0);
     ( 557230.7, 3777364.0,     966.6,     966.6,       0.0);         ( 556466.2,
3776816.1,     988.3,     988.3,       0.0);
     ( 556407.9, 3776826.2,     987.6,     987.6,       0.0);         ( 556381.1,
3776807.1,     987.6,     987.6,       0.0);
     ( 556404.3, 3776771.5,     988.7,     988.7,       0.0);         ( 556465.2,
3776739.5,     990.3,     990.3,       0.0);
     ( 556396.1, 3776739.9,     989.3,     989.3,       0.0);         ( 556324.0,
3777265.4,     977.0,     977.0,       0.0);
     ( 556330.6, 3777234.0,     977.5,     977.5,       0.0);         ( 556321.1,
3777200.4,     978.2,     978.2,       0.0);
     ( 556275.1, 3777267.8,     976.2,     976.2,       0.0);         ( 556278.3,
3777233.5,     977.0,     977.0,       0.0);
     ( 556509.4, 3777373.4,     974.1,     974.1,       0.0);         ( 556529.4,
3777373.4,     973.9,     973.9,       0.0);
     ( 556549.4, 3777373.4,     973.9,     973.9,       0.0);         ( 556569.4,
3777373.4,     973.7,     973.7,       0.0);
     ( 556589.4, 3777373.4,     973.8,     973.8,       0.0);         ( 556609.4,
3777373.4,     973.7,     973.7,       0.0);
     ( 556629.4, 3777373.4,     973.7,     973.7,       0.0);         ( 556649.4,
3777373.4,     973.5,     973.5,       0.0);
     ( 556669.4, 3777373.4,     973.5,     973.5,       0.0);         ( 556689.4,
3777373.4,     973.7,     973.7,       0.0);
     ( 556709.4, 3777373.4,     973.8,     973.8,       0.0);         ( 556729.4,
3777373.4,     973.8,     973.8,       0.0);
     ( 556749.4, 3777373.4,     973.9,     973.9,       0.0);         ( 556769.4,
3777373.4,     973.6,     973.6,       0.0);
     ( 556789.4, 3777373.4,     973.3,     973.3,       0.0);         ( 556809.4,
3777373.4,     973.3,     973.3,       0.0);
     ( 556829.4, 3777373.4,     973.1,     973.1,       0.0);         ( 556849.4,
3777373.4,     972.8,     972.8,       0.0);
     ( 556869.4, 3777373.4,     972.6,     972.6,       0.0);         ( 556889.4,
3777373.4,     972.2,     972.2,       0.0);
     ( 556909.4, 3777373.4,     971.8,     971.8,       0.0);         ( 556929.4,
3777373.4,     971.3,     971.3,       0.0);
     ( 556949.4, 3777373.4,     971.0,     971.0,       0.0);         ( 556969.4,
3777373.4,     970.9,     970.9,       0.0);
     ( 556989.4, 3777373.4,     970.6,     970.6,       0.0);         ( 557009.4,
3777373.4,     970.3,     970.3,       0.0);
     ( 557029.4, 3777373.4,     970.2,     970.2,       0.0);         ( 557049.4,
3777373.4,     969.8,     969.8,       0.0);
     ( 557069.4, 3777373.4,     969.2,     969.2,       0.0);         ( 557089.4,
3777373.4,     968.7,     968.7,       0.0);
     ( 557109.4, 3777373.4,     968.2,     968.2,       0.0);         ( 557129.4,
3777373.4,     967.7,     967.7,       0.0);
     ( 557149.4, 3777373.4,     967.3,     967.3,       0.0);         ( 557169.4,
3777373.4,     967.0,     967.0,       0.0);
     ( 557189.4, 3777373.4,     966.9,     966.9,       0.0);         ( 557209.4,
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3777373.4,     966.8,     966.8,       0.0);
     ( 557229.4, 3777373.4,     966.5,     966.5,       0.0);         ( 557249.4,
3777373.4,     966.1,     966.1,       0.0);
     ( 557269.4, 3777373.4,     965.7,     965.7,       0.0);         ( 557289.4,
3777373.4,     965.5,     965.5,       0.0);
     ( 557309.4, 3777373.4,     965.4,     965.4,       0.0);         ( 557329.4,
3777373.4,     964.8,     964.8,       0.0);
     ( 557349.4, 3777373.4,     964.8,     964.8,       0.0);         ( 557369.4,
3777373.4,     964.5,     964.5,       0.0);
     ( 557389.4, 3777373.4,     964.1,     964.1,       0.0);         ( 557409.4,
3777373.4,     963.8,     963.8,       0.0);
     ( 557429.4, 3777373.4,     963.2,     963.2,       0.0);         ( 557449.4,
3777373.4,     962.9,     962.9,       0.0);
     ( 557469.4, 3777373.4,     962.4,     962.4,       0.0);         ( 557489.4,
3777373.4,     961.3,     961.3,       0.0);
     ( 556509.4, 3777393.4,     973.6,     973.6,       0.0);         ( 556529.4,
3777393.4,     973.4,     973.4,       0.0);
     ( 556549.4, 3777393.4,     973.3,     973.3,       0.0);         ( 556569.4,
3777393.4,     973.1,     973.1,       0.0);
     ( 556589.4, 3777393.4,     973.3,     973.3,       0.0);         ( 556609.4,
3777393.4,     973.3,     973.3,       0.0);
     ( 556629.4, 3777393.4,     973.4,     973.4,       0.0);         ( 556649.4,
3777393.4,     973.2,     973.2,       0.0);
     ( 556669.4, 3777393.4,     973.0,     973.0,       0.0);         ( 556689.4,
3777393.4,     973.0,     973.0,       0.0);
     ( 556709.4, 3777393.4,     973.3,     973.3,       0.0);         ( 556729.4,
3777393.4,     973.3,     973.3,       0.0);
     ( 556749.4, 3777393.4,     973.5,     973.5,       0.0);         ( 556769.4,
3777393.4,     973.3,     973.3,       0.0);
     ( 556789.4, 3777393.4,     972.9,     972.9,       0.0);         ( 556809.4,
3777393.4,     972.8,     972.8,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 556829.4, 3777393.4,     972.6,     972.6,       0.0);         ( 556849.4,
3777393.4,     972.0,     972.0,       0.0);
     ( 556869.4, 3777393.4,     971.7,     971.7,       0.0);         ( 556889.4,
3777393.4,     971.7,     971.7,       0.0);
     ( 556909.4, 3777393.4,     971.2,     971.2,       0.0);         ( 556929.4,
3777393.4,     971.0,     971.0,       0.0);
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     ( 556949.4, 3777393.4,     970.4,     970.4,       0.0);         ( 556969.4,
3777393.4,     970.3,     970.3,       0.0);
     ( 556989.4, 3777393.4,     970.2,     970.2,       0.0);         ( 557009.4,
3777393.4,     970.1,     970.1,       0.0);
     ( 557029.4, 3777393.4,     969.7,     969.7,       0.0);         ( 557049.4,
3777393.4,     969.4,     969.4,       0.0);
     ( 557069.4, 3777393.4,     969.0,     969.0,       0.0);         ( 557089.4,
3777393.4,     968.6,     968.6,       0.0);
     ( 557109.4, 3777393.4,     968.2,     968.2,       0.0);         ( 557129.4,
3777393.4,     967.5,     967.5,       0.0);
     ( 557149.4, 3777393.4,     967.2,     967.2,       0.0);         ( 557169.4,
3777393.4,     966.6,     966.6,       0.0);
     ( 557189.4, 3777393.4,     966.2,     966.2,       0.0);         ( 557209.4,
3777393.4,     966.2,     966.2,       0.0);
     ( 557229.4, 3777393.4,     966.2,     966.2,       0.0);         ( 557249.4,
3777393.4,     965.8,     965.8,       0.0);
     ( 557269.4, 3777393.4,     965.5,     965.5,       0.0);         ( 557289.4,
3777393.4,     965.1,     965.1,       0.0);
     ( 557309.4, 3777393.4,     964.4,     964.4,       0.0);         ( 557329.4,
3777393.4,     964.5,     964.5,       0.0);
     ( 557349.4, 3777393.4,     964.2,     964.2,       0.0);         ( 557369.4,
3777393.4,     964.1,     964.1,       0.0);
     ( 557389.4, 3777393.4,     963.9,     963.9,       0.0);         ( 557409.4,
3777393.4,     963.4,     963.4,       0.0);
     ( 557429.4, 3777393.4,     963.0,     963.0,       0.0);         ( 557449.4,
3777393.4,     962.8,     962.8,       0.0);
     ( 557469.4, 3777393.4,     962.1,     962.1,       0.0);         ( 557489.4,
3777393.4,     961.1,     961.1,       0.0);
     ( 556509.4, 3777413.4,     973.0,     973.0,       0.0);         ( 556529.4,
3777413.4,     973.0,     973.0,       0.0);
     ( 556549.4, 3777413.4,     973.0,     973.0,       0.0);         ( 556569.4,
3777413.4,     973.1,     973.1,       0.0);
     ( 556589.4, 3777413.4,     973.1,     973.1,       0.0);         ( 556609.4,
3777413.4,     973.1,     973.1,       0.0);
     ( 556629.4, 3777413.4,     973.1,     973.1,       0.0);         ( 556649.4,
3777413.4,     972.8,     972.8,       0.0);
     ( 556669.4, 3777413.4,     972.8,     972.8,       0.0);         ( 556689.4,
3777413.4,     972.8,     972.8,       0.0);
     ( 556709.4, 3777413.4,     973.0,     973.0,       0.0);         ( 556729.4,
3777413.4,     973.0,     973.0,       0.0);
     ( 556749.4, 3777413.4,     972.8,     972.8,       0.0);         ( 556769.4,
3777413.4,     973.0,     973.0,       0.0);
     ( 556789.4, 3777413.4,     972.6,     972.6,       0.0);         ( 556809.4,
3777413.4,     972.5,     972.5,       0.0);
     ( 556829.4, 3777413.4,     972.1,     972.1,       0.0);         ( 556849.4,
3777413.4,     971.6,     971.6,       0.0);
     ( 556869.4, 3777413.4,     971.6,     971.6,       0.0);         ( 556889.4,
3777413.4,     971.2,     971.2,       0.0);
     ( 556909.4, 3777413.4,     970.9,     970.9,       0.0);         ( 556929.4,
3777413.4,     970.9,     970.9,       0.0);
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     ( 556949.4, 3777413.4,     970.1,     970.1,       0.0);         ( 556969.4,
3777413.4,     969.8,     969.8,       0.0);
     ( 556989.4, 3777413.4,     969.5,     969.5,       0.0);         ( 557009.4,
3777413.4,     969.5,     969.5,       0.0);
     ( 557029.4, 3777413.4,     969.2,     969.2,       0.0);         ( 557049.4,
3777413.4,     969.0,     969.0,       0.0);
     ( 557069.4, 3777413.4,     968.7,     968.7,       0.0);         ( 557089.4,
3777413.4,     968.3,     968.3,       0.0);
     ( 557109.4, 3777413.4,     968.1,     968.1,       0.0);         ( 557129.4,
3777413.4,     967.2,     967.2,       0.0);
     ( 557149.4, 3777413.4,     967.1,     967.1,       0.0);         ( 557169.4,
3777413.4,     966.4,     966.4,       0.0);
     ( 557189.4, 3777413.4,     966.1,     966.1,       0.0);         ( 557209.4,
3777413.4,     966.0,     966.0,       0.0);
     ( 557229.4, 3777413.4,     965.6,     965.6,       0.0);         ( 557249.4,
3777413.4,     965.3,     965.3,       0.0);
     ( 557269.4, 3777413.4,     965.1,     965.1,       0.0);         ( 557289.4,
3777413.4,     964.8,     964.8,       0.0);
     ( 557309.4, 3777413.4,     964.5,     964.5,       0.0);         ( 557329.4,
3777413.4,     964.0,     964.0,       0.0);
     ( 557349.4, 3777413.4,     964.0,     964.0,       0.0);         ( 557369.4,
3777413.4,     963.5,     963.5,       0.0);
     ( 557389.4, 3777413.4,     963.4,     963.4,       0.0);         ( 557409.4,
3777413.4,     963.3,     963.3,       0.0);
     ( 557429.4, 3777413.4,     962.5,     962.5,       0.0);         ( 557449.4,
3777413.4,     962.2,     962.2,       0.0);
     ( 557469.4, 3777413.4,     962.1,     962.1,       0.0);         ( 557489.4,
3777413.4,     961.3,     961.3,       0.0);
     ( 556509.4, 3777433.4,     972.6,     972.6,       0.0);         ( 556529.4,
3777433.4,     972.6,     972.6,       0.0);
     ( 556549.4, 3777433.4,     972.5,     972.5,       0.0);         ( 556569.4,
3777433.4,     972.5,     972.5,       0.0);
     ( 556589.4, 3777433.4,     972.7,     972.7,       0.0);         ( 556609.4,
3777433.4,     972.8,     972.8,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:21:34

                                PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 556629.4, 3777433.4,     972.8,     972.8,       0.0);         ( 556649.4,
3777433.4,     972.7,     972.7,       0.0);
     ( 556669.4, 3777433.4,     972.6,     972.6,       0.0);         ( 556689.4,
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3777433.4,   972.8,   972.8,   0.0);
     (556709.4, 3777433.4,   972.8,   972.8,   0.0);   (556729.4,
3777433.4,   972.9,   972.9,   0.0);
     (556749.4, 3777433.4,   972.6,   972.6,   0.0);   (556769.4,
3777433.4,   972.8,   972.8,   0.0);
     (556789.4, 3777433.4,   972.4,   972.4,   0.0);   (556809.4,
3777433.4,   972.0,   972.0,   0.0);
     (556829.4, 3777433.4,   971.6,   971.6,   0.0);   (556849.4,
3777433.4,   971.0,   971.0,   0.0);
     (556869.4, 3777433.4,   970.9,   970.9,   0.0);   (556889.4,
3777433.4,   970.7,   970.7,   0.0);
     (556909.4, 3777433.4,   970.5,   970.5,   0.0);   (556929.4,
3777433.4,   970.2,   970.2,   0.0);
     (556949.4, 3777433.4,   969.9,   969.9,   0.0);   (556969.4,
3777433.4,   969.3,   969.3,   0.0);
     (556989.4, 3777433.4,   968.9,   968.9,   0.0);   (557009.4,
3777433.4,   969.1,   969.1,   0.0);
     (557029.4, 3777433.4,   968.9,   968.9,   0.0);   (557049.4,
3777433.4,   968.8,   968.8,   0.0);
     (557069.4, 3777433.4,   968.4,   968.4,   0.0);   (557089.4,
3777433.4,   968.0,   968.0,   0.0);
     (557109.4, 3777433.4,   967.8,   967.8,   0.0);   (557129.4,
3777433.4,   967.1,   967.1,   0.0);
     (557149.4, 3777433.4,   966.8,   966.8,   0.0);   (557169.4,
3777433.4,   966.1,   966.1,   0.0);
     (557189.4, 3777433.4,   965.8,   965.8,   0.0);   (557209.4,
3777433.4,   965.6,   965.6,   0.0);
     (557229.4, 3777433.4,   965.0,   965.0,   0.0);   (557249.4,
3777433.4,   965.0,   965.0,   0.0);
     (557269.4, 3777433.4,   964.7,   964.7,   0.0);   (557289.4,
3777433.4,   964.2,   964.2,   0.0);
     (557309.4, 3777433.4,   964.3,   964.3,   0.0);   (557329.4,
3777433.4,   963.7,   963.7,   0.0);
     (557349.4, 3777433.4,   962.9,   962.9,   0.0);   (557369.4,
3777433.4,   962.7,   962.7,   0.0);
     (557389.4, 3777433.4,   963.2,   963.2,   0.0);   (557409.4,
3777433.4,   963.2,   963.2,   0.0);
     (557429.4, 3777433.4,   962.2,   962.2,   0.0);   (557449.4,
3777433.4,   961.9,   961.9,   0.0);
     (557469.4, 3777433.4,   961.5,   961.5,   0.0);   (557489.4,
3777433.4,   961.1,   961.1,   0.0);
     (556509.4, 3777453.4,   972.2,   972.2,   0.0);   (556529.4,
3777453.4,   972.2,   972.2,   0.0);
     (556549.4, 3777453.4,   972.3,   972.3,   0.0);   (556569.4,
3777453.4,   972.2,   972.2,   0.0);
     (556589.4, 3777453.4,   972.3,   972.3,   0.0);   (556609.4,
3777453.4,   972.3,   972.3,   0.0);
     (556629.4, 3777453.4,   972.5,   972.5,   0.0);   (556649.4,
3777453.4,   972.5,   972.5,   0.0);
     (556669.4, 3777453.4,   972.4,   972.4,   0.0);   (556689.4,

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3777453.4,     972.4,     972.4,       0.0);
     ( 556709.4, 3777453.4,     972.4,     972.4,       0.0);         ( 556729.4,
3777453.4,     972.6,     972.6,       0.0);
     ( 556749.4, 3777453.4,     972.6,     972.6,       0.0);         ( 556769.4,
3777453.4,     972.4,     972.4,       0.0);
     ( 556789.4, 3777453.4,     972.0,     972.0,       0.0);         ( 556809.4,
3777453.4,     971.6,     971.6,       0.0);
     ( 556829.4, 3777453.4,     971.4,     971.4,       0.0);         ( 556849.4,
3777453.4,     970.9,     970.9,       0.0);
     ( 556869.4, 3777453.4,     970.8,     970.8,       0.0);         ( 556889.4,
3777453.4,     970.2,     970.2,       0.0);
     ( 556909.4, 3777453.4,     970.1,     970.1,       0.0);         ( 556929.4,
3777453.4,     969.5,     969.5,       0.0);
     ( 556949.4, 3777453.4,     969.3,     969.3,       0.0);         ( 556969.4,
3777453.4,     968.9,     968.9,       0.0);
     ( 556989.4, 3777453.4,     968.5,     968.5,       0.0);         ( 557009.4,
3777453.4,     968.1,     968.1,       0.0);
     ( 557029.4, 3777453.4,     968.0,     968.0,       0.0);         ( 557049.4,
3777453.4,     967.9,     967.9,       0.0);
     ( 557069.4, 3777453.4,     967.9,     967.9,       0.0);         ( 557089.4,
3777453.4,     967.7,     967.7,       0.0);
     ( 557109.4, 3777453.4,     967.5,     967.5,       0.0);         ( 557129.4,
3777453.4,     967.0,     967.0,       0.0);
     ( 557149.4, 3777453.4,     966.7,     966.7,       0.0);         ( 557169.4,
3777453.4,     965.8,     965.8,       0.0);
     ( 557189.4, 3777453.4,     965.4,     965.4,       0.0);         ( 557209.4,
3777453.4,     965.3,     965.3,       0.0);
     ( 557229.4, 3777453.4,     964.7,     964.7,       0.0);         ( 557249.4,
3777453.4,     964.7,     964.7,       0.0);
     ( 557269.4, 3777453.4,     964.3,     964.3,       0.0);         ( 557289.4,
3777453.4,     963.9,     963.9,       0.0);
     ( 557309.4, 3777453.4,     963.8,     963.8,       0.0);         ( 557329.4,
3777453.4,     963.5,     963.5,       0.0);
     ( 557349.4, 3777453.4,     963.2,     963.2,       0.0);         ( 557369.4,
3777453.4,     962.4,     962.4,       0.0);
     ( 557389.4, 3777453.4,     962.3,     962.9,       0.0);         ( 557409.4,
3777453.4,     962.6,     962.6,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                        ***       11:21:34

                                    PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                              *** DISCRETE CARTESIAN RECEPTORS ***
                                            (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                        (METERS)
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```
     ( 557429.4, 3777453.4,     962.3,     962.3,       0.0);         ( 557449.4,
3777453.4,     961.9,     961.9,       0.0);
     ( 557469.4, 3777453.4,     961.4,     961.4,       0.0);         ( 557489.4,
3777453.4,     960.7,     960.7,       0.0);
     ( 556509.4, 3777473.4,     971.8,     971.8,       0.0);         ( 556529.4,
3777473.4,     971.6,     971.6,       0.0);
     ( 556549.4, 3777473.4,     971.6,     971.6,       0.0);         ( 556569.4,
3777473.4,     971.9,     971.9,       0.0);
     ( 556589.4, 3777473.4,     971.8,     971.8,       0.0);         ( 556609.4,
3777473.4,     971.8,     971.8,       0.0);
     ( 556629.4, 3777473.4,     971.9,     971.9,       0.0);         ( 556649.4,
3777473.4,     972.0,     972.0,       0.0);
     ( 556669.4, 3777473.4,     972.0,     972.0,       0.0);         ( 556689.4,
3777473.4,     971.9,     971.9,       0.0);
     ( 556709.4, 3777473.4,     972.0,     972.0,       0.0);         ( 556729.4,
3777473.4,     972.3,     972.3,       0.0);
     ( 556749.4, 3777473.4,     972.1,     972.1,       0.0);         ( 556769.4,
3777473.4,     972.0,     972.0,       0.0);
     ( 556789.4, 3777473.4,     971.5,     971.5,       0.0);         ( 556809.4,
3777473.4,     971.2,     971.2,       0.0);
     ( 556829.4, 3777473.4,     970.9,     970.9,       0.0);         ( 556849.4,
3777473.4,     970.7,     970.7,       0.0);
     ( 556869.4, 3777473.4,     970.5,     970.5,       0.0);         ( 556889.4,
3777473.4,     969.8,     969.8,       0.0);
     ( 556909.4, 3777473.4,     969.7,     969.7,       0.0);         ( 556929.4,
3777473.4,     969.4,     969.4,       0.0);
     ( 556949.4, 3777473.4,     969.1,     969.1,       0.0);         ( 556969.4,
3777473.4,     968.7,     968.7,       0.0);
     ( 556989.4, 3777473.4,     968.3,     968.3,       0.0);         ( 557009.4,
3777473.4,     968.0,     968.0,       0.0);
     ( 557029.4, 3777473.4,     967.8,     967.8,       0.0);         ( 557049.4,
3777473.4,     967.5,     967.5,       0.0);
     ( 557069.4, 3777473.4,     967.6,     967.6,       0.0);         ( 557089.4,
3777473.4,     967.3,     967.3,       0.0);
     ( 557109.4, 3777473.4,     967.2,     967.2,       0.0);         ( 557129.4,
3777473.4,     966.6,     966.6,       0.0);
     ( 557149.4, 3777473.4,     966.5,     966.5,       0.0);         ( 557169.4,
3777473.4,     965.6,     965.6,       0.0);
     ( 557189.4, 3777473.4,     965.2,     965.2,       0.0);         ( 557209.4,
3777473.4,     964.9,     964.9,       0.0);
     ( 557229.4, 3777473.4,     964.4,     964.4,       0.0);         ( 557249.4,
3777473.4,     964.4,     964.4,       0.0);
     ( 557269.4, 3777473.4,     963.9,     963.9,       0.0);         ( 557289.4,
3777473.4,     963.5,     963.5,       0.0);
     ( 557309.4, 3777473.4,     963.4,     963.4,       0.0);         ( 557329.4,
3777473.4,     963.2,     963.2,       0.0);
     ( 557349.4, 3777473.4,     962.9,     962.9,       0.0);         ( 557369.4,
3777473.4,     962.6,     962.6,       0.0);
     ( 557389.4, 3777473.4,     962.1,     962.1,       0.0);         ( 557409.4,
3777473.4,     962.1,     962.1,       0.0);
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     ( 557429.4, 3777473.4,     961.6,     961.6,       0.0);         ( 557449.4,
3777473.4,     961.8,     961.8,       0.0);
     ( 557469.4, 3777473.4,     961.3,     961.3,       0.0);         ( 557489.4,
3777473.4,     960.7,     960.7,       0.0);
     ( 556509.4, 3777493.4,     971.4,     971.4,       0.0);         ( 556529.4,
3777493.4,     971.5,     971.5,       0.0);
     ( 556549.4, 3777493.4,     971.5,     971.5,       0.0);         ( 556569.4,
3777493.4,     971.1,     971.1,       0.0);
     ( 556589.4, 3777493.4,     971.1,     971.1,       0.0);         ( 556609.4,
3777493.4,     971.3,     971.3,       0.0);
     ( 556629.4, 3777493.4,     971.2,     971.2,       0.0);         ( 556649.4,
3777493.4,     971.3,     971.3,       0.0);
     ( 556669.4, 3777493.4,     971.6,     971.6,       0.0);         ( 556689.4,
3777493.4,     971.6,     971.6,       0.0);
     ( 556709.4, 3777493.4,     971.7,     971.7,       0.0);         ( 556729.4,
3777493.4,     972.1,     972.1,       0.0);
     ( 556749.4, 3777493.4,     971.7,     971.7,       0.0);         ( 556769.4,
3777493.4,     971.6,     971.6,       0.0);
     ( 556789.4, 3777493.4,     971.1,     971.1,       0.0);         ( 556809.4,
3777493.4,     970.6,     970.6,       0.0);
     ( 556829.4, 3777493.4,     970.5,     970.5,       0.0);         ( 556849.4,
3777493.4,     970.2,     970.2,       0.0);
     ( 556869.4, 3777493.4,     970.1,     970.1,       0.0);         ( 556889.4,
3777493.4,     969.6,     969.6,       0.0);
     ( 556909.4, 3777493.4,     969.4,     969.4,       0.0);         ( 556929.4,
3777493.4,     969.0,     969.0,       0.0);
     ( 556949.4, 3777493.4,     968.7,     968.7,       0.0);         ( 556969.4,
3777493.4,     968.2,     968.2,       0.0);
     ( 556989.4, 3777493.4,     968.0,     968.0,       0.0);         ( 557009.4,
3777493.4,     967.9,     967.9,       0.0);
     ( 557029.4, 3777493.4,     967.5,     967.5,       0.0);         ( 557049.4,
3777493.4,     967.2,     967.2,       0.0);
     ( 557069.4, 3777493.4,     967.1,     967.1,       0.0);         ( 557089.4,
3777493.4,     966.8,     966.8,       0.0);
     ( 557109.4, 3777493.4,     966.9,     966.9,       0.0);         ( 557129.4,
3777493.4,     966.5,     966.5,       0.0);
     ( 557149.4, 3777493.4,     966.2,     966.2,       0.0);         ( 557169.4,
3777493.4,     965.6,     965.6,       0.0);
     ( 557189.4, 3777493.4,     964.9,     964.9,       0.0);         ( 557209.4,
3777493.4,     964.7,     964.7,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                            *** DISCRETE CARTESIAN RECEPTORS ***
```

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(557229.4, 3777493.4, 964.1, 964.1, 0.0); (557249.4, 3777493.4, 963.8, 963.8, 0.0);
(557269.4, 3777493.4, 963.5, 963.5, 0.0); (557289.4, 3777493.4, 963.2, 963.2, 0.0);
(557309.4, 3777493.4, 962.8, 962.8, 0.0); (557329.4, 3777493.4, 962.6, 962.6, 0.0);
(557349.4, 3777493.4, 962.4, 962.4, 0.0); (557369.4, 3777493.4, 962.2, 962.2, 0.0);
(557389.4, 3777493.4, 962.1, 962.1, 0.0); (557409.4, 3777493.4, 961.9, 961.9, 0.0);
(557429.4, 3777493.4, 961.0, 961.0, 0.0); (557449.4, 3777493.4, 960.9, 961.3, 0.0);
(557469.4, 3777493.4, 961.0, 961.0, 0.0); (557489.4, 3777493.4, 960.6, 960.6, 0.0);
(556509.4, 3777513.4, 971.0, 971.0, 0.0); (556529.4, 3777513.4, 971.0, 971.0, 0.0);
(556549.4, 3777513.4, 970.8, 970.8, 0.0); (556569.4, 3777513.4, 971.2, 971.2, 0.0);
(556589.4, 3777513.4, 971.1, 971.1, 0.0); (556609.4, 3777513.4, 970.9, 970.9, 0.0);
(556629.4, 3777513.4, 971.2, 971.2, 0.0); (556649.4, 3777513.4, 971.3, 971.3, 0.0);
(556669.4, 3777513.4, 971.4, 971.4, 0.0); (556689.4, 3777513.4, 971.2, 971.2, 0.0);
(556709.4, 3777513.4, 971.4, 971.4, 0.0); (556729.4, 3777513.4, 971.9, 971.9, 0.0);
(556749.4, 3777513.4, 971.5, 971.5, 0.0); (556769.4, 3777513.4, 971.5, 971.5, 0.0);
(556789.4, 3777513.4, 971.0, 971.0, 0.0); (556809.4, 3777513.4, 970.2, 970.2, 0.0);
(556829.4, 3777513.4, 970.0, 970.0, 0.0); (556849.4, 3777513.4, 969.6, 969.6, 0.0);
(556869.4, 3777513.4, 969.5, 969.5, 0.0); (556889.4, 3777513.4, 969.3, 969.3, 0.0);
(556909.4, 3777513.4, 968.8, 968.8, 0.0); (556929.4, 3777513.4, 968.6, 968.6, 0.0);
(556949.4, 3777513.4, 968.4, 968.4, 0.0); (556969.4, 3777513.4, 967.9, 967.9, 0.0);
(556989.4, 3777513.4, 967.6, 967.6, 0.0); (557009.4, 3777513.4, 967.5, 967.5, 0.0);
(557029.4, 3777513.4, 967.1, 967.1, 0.0); (557049.4, 3777513.4, 967.0, 967.0, 0.0);
(557069.4, 3777513.4, 966.6, 966.6, 0.0); (557089.4, 3777513.4, 966.4, 966.4, 0.0);
(557109.4, 3777513.4, 966.3, 966.3, 0.0); (557129.4, 3777513.4, 966.1, 966.1, 0.0);
(557149.4, 3777513.4, 966.0, 966.0, 0.0); (557169.4,

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3777513.4,     965.5,     965.5,       0.0);
     ( 557189.4, 3777513.4,     964.8,     964.8,       0.0);         ( 557209.4,
3777513.4,     964.6,     964.6,       0.0);
     ( 557229.4, 3777513.4,     963.9,     963.9,       0.0);         ( 557249.4,
3777513.4,     963.7,     963.7,       0.0);
     ( 557269.4, 3777513.4,     963.3,     963.3,       0.0);         ( 557289.4,
3777513.4,     962.8,     962.8,       0.0);
     ( 557309.4, 3777513.4,     962.6,     962.6,       0.0);         ( 557329.4,
3777513.4,     962.4,     962.4,       0.0);
     ( 557349.4, 3777513.4,     962.1,     962.1,       0.0);         ( 557369.4,
3777513.4,     961.7,     961.7,       0.0);
     ( 557389.4, 3777513.4,     961.6,     961.6,       0.0);         ( 557409.4,
3777513.4,     961.5,     961.5,       0.0);
     ( 557429.4, 3777513.4,     961.0,     961.0,       0.0);         ( 557449.4,
3777513.4,     960.6,     960.6,       0.0);
     ( 557469.4, 3777513.4,     960.4,     960.4,       0.0);         ( 557489.4,
3777513.4,     960.2,     960.2,       0.0);
     ( 556509.4, 3777533.4,     970.5,     970.5,       0.0);         ( 556529.4,
3777533.4,     970.6,     970.6,       0.0);
     ( 556549.4, 3777533.4,     970.5,     970.5,       0.0);         ( 556569.4,
3777533.4,     970.5,     970.5,       0.0);
     ( 556589.4, 3777533.4,     970.4,     970.4,       0.0);         ( 556609.4,
3777533.4,     970.5,     970.5,       0.0);
     ( 556629.4, 3777533.4,     970.6,     970.6,       0.0);         ( 556649.4,
3777533.4,     970.7,     970.7,       0.0);
     ( 556669.4, 3777533.4,     970.6,     970.6,       0.0);         ( 556689.4,
3777533.4,     970.7,     970.7,       0.0);
     ( 556709.4, 3777533.4,     971.2,     971.2,       0.0);         ( 556729.4,
3777533.4,     971.5,     971.5,       0.0);
     ( 556749.4, 3777533.4,     971.3,     971.3,       0.0);         ( 556769.4,
3777533.4,     971.0,     971.0,       0.0);
     ( 556789.4, 3777533.4,     970.8,     970.8,       0.0);         ( 556809.4,
3777533.4,     969.9,     969.9,       0.0);
     ( 556829.4, 3777533.4,     969.8,     969.8,       0.0);         ( 556849.4,
3777533.4,     969.2,     969.2,       0.0);
     ( 556869.4, 3777533.4,     969.0,     969.0,       0.0);         ( 556889.4,
3777533.4,     968.8,     968.8,       0.0);
     ( 556909.4, 3777533.4,     968.5,     968.5,       0.0);         ( 556929.4,
3777533.4,     968.2,     968.2,       0.0);
     ( 556949.4, 3777533.4,     967.9,     967.9,       0.0);         ( 556969.4,
3777533.4,     967.4,     967.4,       0.0);
     ( 556989.4, 3777533.4,     967.1,     967.1,       0.0);         ( 557009.4,
3777533.4,     966.9,     966.9,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       11:21:34

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(557029.4, 3777533.4, 966.7, 966.7, 0.0); (557049.4, 3777533.4, 966.5, 966.5, 0.0);
(557069.4, 3777533.4, 966.3, 966.3, 0.0); (557089.4, 3777533.4, 966.0, 966.0, 0.0);
(557109.4, 3777533.4, 965.9, 965.9, 0.0); (557129.4, 3777533.4, 965.9, 965.9, 0.0);
(557149.4, 3777533.4, 965.9, 965.9, 0.0); (557169.4, 3777533.4, 965.3, 965.3, 0.0);
(557189.4, 3777533.4, 964.7, 964.7, 0.0); (557209.4, 3777533.4, 964.6, 964.6, 0.0);
(557229.4, 3777533.4, 963.6, 963.6, 0.0); (557249.4, 3777533.4, 963.5, 963.5, 0.0);
(557269.4, 3777533.4, 962.9, 962.9, 0.0); (557289.4, 3777533.4, 962.6, 962.6, 0.0);
(557309.4, 3777533.4, 962.3, 962.3, 0.0); (557329.4, 3777533.4, 962.0, 962.0, 0.0);
(557349.4, 3777533.4, 961.8, 961.8, 0.0); (557369.4, 3777533.4, 961.4, 961.4, 0.0);
(557389.4, 3777533.4, 960.9, 960.9, 0.0); (557409.4, 3777533.4, 960.9, 960.9, 0.0);
(557429.4, 3777533.4, 960.6, 960.6, 0.0); (557449.4, 3777533.4, 960.5, 960.5, 0.0);
(557469.4, 3777533.4, 959.9, 959.9, 0.0); (557489.4, 3777533.4, 959.5, 959.5, 0.0);
(556509.4, 3777553.4, 970.2, 970.2, 0.0); (556529.4, 3777553.4, 970.2, 970.2, 0.0);
(556549.4, 3777553.4, 970.0, 970.0, 0.0); (556569.4, 3777553.4, 970.1, 970.1, 0.0);
(556589.4, 3777553.4, 970.2, 970.2, 0.0); (556609.4, 3777553.4, 970.1, 970.1, 0.0);
(556629.4, 3777553.4, 970.2, 970.2, 0.0); (556649.4, 3777553.4, 970.3, 970.3, 0.0);
(556669.4, 3777553.4, 970.0, 970.0, 0.0); (556689.4, 3777553.4, 970.1, 970.1, 0.0);
(556709.4, 3777553.4, 970.7, 970.7, 0.0); (556729.4, 3777553.4, 971.0, 971.0, 0.0);
(556749.4, 3777553.4, 970.5, 970.5, 0.0); (556769.4, 3777553.4, 970.3, 970.3, 0.0);
(556789.4, 3777553.4, 970.2, 970.2, 0.0); (556809.4, 3777553.4, 969.6, 969.6, 0.0);
(556829.4, 3777553.4, 969.3, 969.3, 0.0); (556849.4, 3777553.4, 968.8, 968.8, 0.0);
(556869.4, 3777553.4, 968.5, 968.5, 0.0); (556889.4, 3777553.4, 968.4, 968.4, 0.0);

```
     ( 556909.4, 3777553.4,     968.2,     968.2,       0.0);         ( 556929.4,
3777553.4,     968.1,     968.1,       0.0);
     ( 556949.4, 3777553.4,     967.3,     967.3,       0.0);         ( 556969.4,
3777553.4,     966.9,     966.9,       0.0);
     ( 556989.4, 3777553.4,     966.4,     966.4,       0.0);         ( 557009.4,
3777553.4,     966.2,     966.2,       0.0);
     ( 557029.4, 3777553.4,     965.9,     965.9,       0.0);         ( 557049.4,
3777553.4,     965.8,     965.8,       0.0);
     ( 557069.4, 3777553.4,     965.7,     965.7,       0.0);         ( 557089.4,
3777553.4,     965.5,     965.5,       0.0);
     ( 557109.4, 3777553.4,     965.2,     965.2,       0.0);         ( 557129.4,
3777553.4,     965.2,     965.2,       0.0);
     ( 557149.4, 3777553.4,     965.2,     965.2,       0.0);         ( 557169.4,
3777553.4,     964.9,     964.9,       0.0);
     ( 557189.4, 3777553.4,     964.5,     964.5,       0.0);         ( 557209.4,
3777553.4,     964.1,     964.1,       0.0);
     ( 557229.4, 3777553.4,     963.5,     963.5,       0.0);         ( 557249.4,
3777553.4,     962.9,     962.9,       0.0);
     ( 557269.4, 3777553.4,     962.5,     962.5,       0.0);         ( 557289.4,
3777553.4,     962.2,     962.2,       0.0);
     ( 557309.4, 3777553.4,     961.9,     961.9,       0.0);         ( 557329.4,
3777553.4,     961.6,     961.6,       0.0);
     ( 557349.4, 3777553.4,     961.4,     961.4,       0.0);         ( 557369.4,
3777553.4,     961.2,     961.2,       0.0);
     ( 557389.4, 3777553.4,     960.6,     960.6,       0.0);         ( 557409.4,
3777553.4,     960.5,     960.5,       0.0);
     ( 557429.4, 3777553.4,     960.2,     960.2,       0.0);         ( 557449.4,
3777553.4,     960.0,     960.0,       0.0);
     ( 557469.4, 3777553.4,     959.7,     959.7,       0.0);         ( 557489.4,
3777553.4,     959.0,     959.0,       0.0);
     ( 557438.9, 3777336.7,     963.4,     963.4,       0.0);         ( 556615.9,
3777137.0,     979.2,     979.2,       0.0);
     ( 556586.4, 3777056.2,     980.5,     981.8,       0.0);         ( 556672.4,
3776929.1,     979.7,     985.3,       0.0);
     ( 556692.4, 3776929.1,     979.9,     979.9,       0.0);         ( 556712.4,
3776929.1,     979.8,     979.8,       0.0);
     ( 556732.4, 3776929.1,     979.7,     979.7,       0.0);         ( 556752.4,
3776929.1,     979.1,     979.1,       0.0);
     ( 556772.4, 3776929.1,     979.3,     979.3,       0.0);         ( 556792.4,
3776929.1,     979.5,     979.5,       0.0);
     ( 556812.4, 3776929.1,     979.1,     979.1,       0.0);         ( 556832.4,
3776929.1,     979.6,     979.6,       0.0);
     ( 556852.4, 3776929.1,     979.6,     979.6,       0.0);         ( 556672.4,
3776949.1,     979.8,     979.8,       0.0);
     ( 556692.4, 3776949.1,     979.9,     979.9,       0.0);         ( 556712.4,
3776949.1,     980.0,     980.0,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(556732.4, 3776949.1, 980.0, 980.0, 0.0); (556752.4, 3776949.1, 979.9, 979.9, 0.0);
(556772.4, 3776949.1, 979.7, 979.7, 0.0); (556792.4, 3776949.1, 979.3, 979.3, 0.0);
(556812.4, 3776949.1, 979.1, 979.1, 0.0); (556832.4, 3776949.1, 979.7, 979.7, 0.0);
(556852.4, 3776949.1, 979.7, 979.7, 0.0); (556672.4, 3776969.1, 979.8, 979.8, 0.0);
(556692.4, 3776969.1, 979.9, 979.9, 0.0); (556712.4, 3776969.1, 980.0, 980.0, 0.0);
(556732.4, 3776969.1, 979.9, 979.9, 0.0); (556752.4, 3776969.1, 979.9, 979.9, 0.0);
(556772.4, 3776969.1, 979.8, 979.8, 0.0); (556792.4, 3776969.1, 979.4, 979.4, 0.0);
(556812.4, 3776969.1, 979.3, 979.3, 0.0); (556832.4, 3776969.1, 979.6, 979.6, 0.0);
(556852.4, 3776969.1, 979.8, 979.8, 0.0); (556672.4, 3776989.1, 979.8, 979.8, 0.0);
(556692.4, 3776989.1, 979.9, 979.9, 0.0); (556712.4, 3776989.1, 980.0, 980.0, 0.0);
(556732.4, 3776989.1, 980.0, 980.0, 0.0); (556752.4, 3776989.1, 979.9, 979.9, 0.0);
(556772.4, 3776989.1, 979.9, 979.9, 0.0); (556792.4, 3776989.1, 979.5, 979.5, 0.0);
(556812.4, 3776989.1, 979.5, 979.5, 0.0); (556832.4, 3776989.1, 979.7, 979.7, 0.0);
(556852.4, 3776989.1, 979.7, 979.7, 0.0); (556672.4, 3777009.1, 979.9, 979.9, 0.0);
(556692.4, 3777009.1, 980.0, 980.0, 0.0); (556712.4, 3777009.1, 979.9, 979.9, 0.0);
(556732.4, 3777009.1, 980.0, 980.0, 0.0); (556752.4, 3777009.1, 979.9, 979.9, 0.0);
(556772.4, 3777009.1, 979.9, 979.9, 0.0); (556792.4, 3777009.1, 979.6, 979.6, 0.0);
(556812.4, 3777009.1, 979.7, 979.7, 0.0); (556832.4, 3777009.1, 979.9, 979.9, 0.0);
(556852.4, 3777009.1, 979.7, 979.7, 0.0); (556672.4, 3777029.1, 979.9, 979.9, 0.0);
(556692.4, 3777029.1, 980.0, 980.0, 0.0); (556712.4, 3777029.1, 979.9, 979.9, 0.0);
(556732.4, 3777029.1, 980.0, 980.0, 0.0); (556752.4,

```
3777029.1,     979.9,     979.9,       0.0);
     ( 556772.4, 3777029.1,     979.9,     979.9,       0.0);         ( 556792.4,
3777029.1,     979.8,     979.8,       0.0);
     ( 556812.4, 3777029.1,     979.9,     979.9,       0.0);         ( 556832.4,
3777029.1,     979.9,     979.9,       0.0);
     ( 556852.4, 3777029.1,     979.7,     979.7,       0.0);         ( 556672.4,
3777049.1,     979.8,     979.8,       0.0);
     ( 556692.4, 3777049.1,     979.9,     979.9,       0.0);         ( 556712.4,
3777049.1,     979.8,     979.8,       0.0);
     ( 556732.4, 3777049.1,     979.9,     979.9,       0.0);         ( 556752.4,
3777049.1,     979.9,     979.9,       0.0);
     ( 556772.4, 3777049.1,     979.8,     979.8,       0.0);         ( 556792.4,
3777049.1,     979.9,     979.9,       0.0);
     ( 556812.4, 3777049.1,     979.9,     979.9,       0.0);         ( 556832.4,
3777049.1,     979.9,     979.9,       0.0);
     ( 556852.4, 3777049.1,     979.7,     979.7,       0.0);         ( 556927.5,
3776959.5,     976.9,     976.9,       0.0);
     ( 556947.5, 3776959.5,     976.7,     976.7,       0.0);         ( 556967.5,
3776959.5,     977.3,     977.3,       0.0);
     ( 556987.5, 3776959.5,     977.4,     977.4,       0.0);         ( 557007.5,
3776959.5,     977.5,     977.5,       0.0);
     ( 557027.5, 3776959.5,     977.5,     977.5,       0.0);         ( 557047.5,
3776959.5,     977.5,     977.5,       0.0);
     ( 557067.5, 3776959.5,     977.5,     977.5,       0.0);         ( 557087.5,
3776959.5,     977.5,     977.5,       0.0);
     ( 556927.5, 3776979.5,     977.1,     977.1,       0.0);         ( 556947.5,
3776979.5,     977.0,     977.0,       0.0);
     ( 556967.5, 3776979.5,     977.3,     977.3,       0.0);         ( 556987.5,
3776979.5,     977.4,     977.4,       0.0);
     ( 557007.5, 3776979.5,     977.6,     977.6,       0.0);         ( 557027.5,
3776979.5,     977.6,     977.6,       0.0);
     ( 557047.5, 3776979.5,     977.5,     977.5,       0.0);         ( 557067.5,
3776979.5,     977.6,     977.6,       0.0);
     ( 557087.5, 3776979.5,     977.5,     977.5,       0.0);         ( 556927.5,
3776999.5,     977.1,     977.1,       0.0);
     ( 556947.5, 3776999.5,     977.3,     977.3,       0.0);         ( 556967.5,
3776999.5,     977.4,     977.4,       0.0);
     ( 556987.5, 3776999.5,     977.5,     977.5,       0.0);         ( 557007.5,
3776999.5,     977.6,     977.6,       0.0);
     ( 557027.5, 3776999.5,     977.6,     977.6,       0.0);         ( 557047.5,
3776999.5,     977.5,     977.5,       0.0);
     ( 557067.5, 3776999.5,     977.5,     977.5,       0.0);         ( 557087.5,
3776999.5,     977.5,     977.5,       0.0);
     ( 556927.5, 3777019.5,     977.1,     977.1,       0.0);         ( 556947.5,
3777019.5,     977.3,     977.3,       0.0);
     ( 556967.5, 3777019.5,     977.4,     977.4,       0.0);         ( 556987.5,
3777019.5,     977.5,     977.5,       0.0);
     ( 557007.5, 3777019.5,     977.6,     977.6,       0.0);         ( 557027.5,
3777019.5,     977.6,     977.6,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (557047.5, 3777019.5,   977.5,   977.5,   0.0);   (557067.5,
3777019.5,   977.5,   977.5,   0.0);
     (557087.5, 3777019.5,   977.5,   977.5,   0.0);   (556927.5,
3777039.5,   977.1,   977.1,   0.0);
     (556947.5, 3777039.5,   977.3,   977.3,   0.0);   (556967.5,
3777039.5,   977.5,   977.5,   0.0);
     (556987.5, 3777039.5,   977.6,   977.6,   0.0);   (557007.5,
3777039.5,   977.5,   977.5,   0.0);
     (557027.5, 3777039.5,   977.5,   977.5,   0.0);   (557047.5,
3777039.5,   977.6,   977.6,   0.0);
     (557067.5, 3777039.5,   977.5,   977.5,   0.0);   (557087.5,
3777039.5,   977.5,   977.5,   0.0);
     (557047.5, 3777059.5,   977.3,   977.3,   0.0);   (557067.5,
3777059.5,   977.3,   977.3,   0.0);
     (557087.5, 3777059.5,   977.2,   977.2,   0.0);   (556919.0,
3777174.9,   975.1,   975.1,   0.0);
     (556939.0, 3777174.9,   975.1,   975.1,   0.0);   (556919.0,
3777194.9,   975.1,   975.1,   0.0);
     (556939.0, 3777194.9,   975.0,   975.0,   0.0);   (556919.0,
3777214.9,   974.1,   974.8,   0.0);
     (556939.0, 3777214.9,   974.8,   974.8,   0.0);   (556919.0,
3777234.9,   974.2,   974.2,   0.0);
     (556939.0, 3777234.9,   974.6,   974.6,   0.0);   (556919.0,
3777254.9,   974.0,   974.6,   0.0);
     (556939.0, 3777254.9,   974.3,   974.3,   0.0);   (557023.6,
3777171.6,   975.2,   975.2,   0.0);
     (557043.6, 3777171.6,   975.3,   975.3,   0.0);   (557063.6,
3777171.6,   975.1,   975.1,   0.0);
     (557083.6, 3777171.6,   975.1,   975.1,   0.0);   (557023.6,
3777191.6,   975.3,   975.3,   0.0);
     (557043.6, 3777191.6,   975.0,   975.0,   0.0);   (557063.6,
3777191.6,   974.4,   974.4,   0.0);
     (557083.6, 3777191.6,   974.3,   974.3,   0.0);   (557023.6,
3777211.6,   975.3,   975.3,   0.0);
     (557043.6, 3777211.6,   975.1,   975.1,   0.0);   (557063.6,
3777211.6,   974.8,   974.8,   0.0);
     (557083.6, 3777211.6,   973.3,   975.0,   0.0);   (557023.6,
3777231.6,   975.2,   975.2,   0.0);

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     ( 557043.6, 3777231.6,     975.2,     975.2,       0.0);         ( 557063.6,
3777231.6,     975.0,     975.0,       0.0);
     ( 557083.6, 3777231.6,     972.3,     975.3,       0.0);         ( 557023.6,
3777251.6,     974.6,     974.6,       0.0);
     ( 557043.6, 3777251.6,     974.6,     974.6,       0.0);         ( 557063.6,
3777251.6,     974.8,     974.8,       0.0);
     ( 557083.6, 3777251.6,     971.2,     975.3,       0.0);         ( 556249.1,
3776972.8,     982.0,     982.0,       0.0);
     ( 556269.1, 3776972.8,     982.3,     982.3,       0.0);         ( 556229.1,
3776992.8,     981.3,     981.3,       0.0);
     ( 556249.1, 3776992.8,     981.9,     981.9,       0.0);         ( 556269.1,
3776992.8,     981.9,     981.9,       0.0);
     ( 556289.1, 3776992.8,     982.2,     982.2,       0.0);         ( 556309.1,
3776992.8,     982.3,     982.3,       0.0);
     ( 556329.1, 3776992.8,     982.9,     982.9,       0.0);         ( 556209.1,
3777012.8,     980.4,     980.4,       0.0);
     ( 556229.1, 3777012.8,     981.4,     981.4,       0.0);         ( 556249.1,
3777012.8,     981.6,     981.6,       0.0);
     ( 556269.1, 3777012.8,     981.7,     981.7,       0.0);         ( 556289.1,
3777012.8,     981.7,     981.7,       0.0);
     ( 556309.1, 3777012.8,     982.0,     982.0,       0.0);         ( 556329.1,
3777012.8,     982.1,     982.1,       0.0);
     ( 556209.1, 3777032.8,     980.8,     980.8,       0.0);         ( 556229.1,
3777032.8,     981.2,     981.2,       0.0);
     ( 556249.1, 3777032.8,     981.3,     981.3,       0.0);         ( 556269.1,
3777032.8,     981.5,     981.5,       0.0);
     ( 556289.1, 3777032.8,     981.4,     981.4,       0.0);         ( 556309.1,
3777032.8,     981.5,     981.5,       0.0);
     ( 556209.1, 3777052.8,     980.6,     980.6,       0.0);         ( 556229.1,
3777052.8,     981.0,     981.0,       0.0);
     ( 556249.1, 3777052.8,     980.9,     980.9,       0.0);         ( 556269.1,
3777052.8,     981.1,     981.1,       0.0);
     ( 556289.1, 3777052.8,     981.1,     981.1,       0.0);         ( 556309.1,
3777052.8,     981.1,     981.1,       0.0);
     ( 556249.1, 3777072.8,     980.8,     980.8,       0.0);         ( 556269.1,
3777072.8,     980.7,     980.7,       0.0);
     ( 556289.1, 3777072.8,     980.8,     980.8,       0.0);         ( 556269.1,
3777092.8,     980.5,     980.5,       0.0);
     ( 556441.7, 3776927.5,     985.8,     985.8,       0.0);         ( 556461.7,
3776927.5,     985.7,     985.7,       0.0);
     ( 556481.7, 3776927.5,     986.0,     986.0,       0.0);         ( 556421.7,
3776947.5,     985.0,     985.0,       0.0);
     ( 556441.7, 3776947.5,     985.4,     985.4,       0.0);         ( 556461.7,
3776947.5,     985.2,     985.2,       0.0);
     ( 556481.7, 3776947.5,     985.5,     985.5,       0.0);         ( 556401.7,
3776967.5,     984.3,     984.3,       0.0);
     ( 556421.7, 3776967.5,     984.4,     984.4,       0.0);         ( 556441.7,
3776967.5,     984.9,     984.9,       0.0);
     ( 556461.7, 3776967.5,     985.1,     985.1,       0.0);         ( 556481.7,
3776967.5,     984.9,     984.9,       0.0);
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(556441.7, 3776987.5, 984.2, 984.2, 0.0); (556461.7,
3776987.5, 984.4, 984.4, 0.0);
(556481.7, 3776987.5, 984.3, 984.3, 0.0); (556421.7,
3777007.5, 983.9, 983.9, 0.0);
(556441.7, 3777007.5, 984.1, 984.1, 0.0); (556461.7,
3777007.5, 984.1, 984.1, 0.0);
(556481.7, 3777007.5, 983.9, 983.9, 0.0); (556441.7,
3777027.5, 983.8, 983.8, 0.0);
(556461.7, 3777027.5, 984.0, 984.0, 0.0); (556481.7,
3777027.5, 983.7, 983.7, 0.0);
(556251.2, 3777154.9, 978.9, 978.9, 0.0); (556261.3,
3777141.2, 979.1, 979.1, 0.0);
(556265.0, 3777168.2, 978.9, 978.9, 0.0); (556279.2,
3777151.8, 979.0, 979.0, 0.0);
(556202.6, 3777113.4, 979.3, 979.3, 0.0); (556220.1,
3777109.8, 979.4, 979.4, 0.0);
(556187.5, 3777090.2, 979.1, 979.1, 0.0); (556164.3,
3777121.4, 978.2, 978.2, 0.0);
(557510.3, 3776508.2, 988.3, 988.3, 0.0); (557530.3,
3776508.2, 988.1, 988.1, 0.0);
(557550.3, 3776508.2, 987.9, 987.9, 0.0); (557570.3,
3776508.2, 987.7, 987.7, 0.0);
(557590.3, 3776508.2, 987.6, 987.6, 0.0); (557610.3,
3776508.2, 987.6, 987.6, 0.0);
(557630.3, 3776508.2, 987.5, 987.5, 0.0); (557650.3,
3776508.2, 987.5, 987.5, 0.0);
(557670.3, 3776508.2, 987.3, 987.3, 0.0); (557690.3,
3776508.2, 987.1, 987.1, 0.0);
(557510.3, 3776528.2, 987.7, 987.7, 0.0); (557530.3,
3776528.2, 987.5, 987.5, 0.0);
(557550.3, 3776528.2, 987.3, 987.3, 0.0); (557570.3,
3776528.2, 987.1, 987.1, 0.0);
(557590.3, 3776528.2, 987.0, 987.0, 0.0); (557610.3,
3776528.2, 987.0, 987.0, 0.0);
(557630.3, 3776528.2, 987.0, 987.0, 0.0); (557650.3,

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3776528.2,     987.0,     987.0,       0.0);
     ( 557670.3, 3776528.2,     986.8,     986.8,       0.0);         ( 557690.3,
3776528.2,     986.7,     986.7,       0.0);
     ( 557510.3, 3776548.2,     987.0,     987.0,       0.0);         ( 557530.3,
3776548.2,     986.9,     986.9,       0.0);
     ( 557550.3, 3776548.2,     986.6,     986.6,       0.0);         ( 557570.3,
3776548.2,     986.3,     986.3,       0.0);
     ( 557590.3, 3776548.2,     986.3,     986.3,       0.0);         ( 557610.3,
3776548.2,     986.3,     986.3,       0.0);
     ( 557630.3, 3776548.2,     986.3,     986.3,       0.0);         ( 557650.3,
3776548.2,     986.3,     986.3,       0.0);
     ( 557670.3, 3776548.2,     986.2,     986.2,       0.0);         ( 557690.3,
3776548.2,     986.2,     986.2,       0.0);
     ( 557510.3, 3776568.2,     986.3,     986.3,       0.0);         ( 557530.3,
3776568.2,     986.2,     986.2,       0.0);
     ( 557550.3, 3776568.2,     985.9,     985.9,       0.0);         ( 557570.3,
3776568.2,     985.7,     985.7,       0.0);
     ( 557590.3, 3776568.2,     985.6,     985.6,       0.0);         ( 557610.3,
3776568.2,     985.5,     985.5,       0.0);
     ( 557630.3, 3776568.2,     985.5,     985.5,       0.0);         ( 557650.3,
3776568.2,     985.6,     985.6,       0.0);
     ( 557670.3, 3776568.2,     985.6,     985.6,       0.0);         ( 557690.3,
3776568.2,     985.5,     985.5,       0.0);
     ( 557510.3, 3776588.2,     985.5,     985.5,       0.0);         ( 557530.3,
3776588.2,     985.5,     985.5,       0.0);
     ( 557550.3, 3776588.2,     985.3,     985.3,       0.0);         ( 557570.3,
3776588.2,     985.0,     985.0,       0.0);
     ( 557590.3, 3776588.2,     984.8,     984.8,       0.0);         ( 557610.3,
3776588.2,     984.8,     984.8,       0.0);
     ( 557630.3, 3776588.2,     984.9,     984.9,       0.0);         ( 557650.3,
3776588.2,     984.9,     984.9,       0.0);
     ( 557670.3, 3776588.2,     985.0,     985.0,       0.0);         ( 557690.3,
3776588.2,     985.0,     985.0,       0.0);
     ( 557510.3, 3776608.2,     984.8,     984.8,       0.0);         ( 557530.3,
3776608.2,     984.8,     984.8,       0.0);
     ( 557550.3, 3776608.2,     984.5,     984.5,       0.0);         ( 557570.3,
3776608.2,     984.3,     984.3,       0.0);
     ( 557590.3, 3776608.2,     984.1,     984.1,       0.0);         ( 557610.3,
3776608.2,     984.1,     984.1,       0.0);
     ( 557630.3, 3776608.2,     984.2,     984.2,       0.0);         ( 557650.3,
3776608.2,     984.2,     984.2,       0.0);
     ( 557670.3, 3776608.2,     984.2,     984.2,       0.0);         ( 557690.3,
3776608.2,     984.2,     984.2,       0.0);
     ( 557510.3, 3776628.2,     984.1,     984.1,       0.0);         ( 557530.3,
3776628.2,     984.0,     984.0,       0.0);
     ( 557550.3, 3776628.2,     983.8,     983.8,       0.0);         ( 557570.3,
3776628.2,     983.8,     983.8,       0.0);
     ( 557590.3, 3776628.2,     983.5,     983.5,       0.0);         ( 557610.3,
3776628.2,     983.4,     983.4,       0.0);
     ( 557630.3, 3776628.2,     983.5,     983.5,       0.0);         ( 557650.3,
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

     (557550.3, 3776648.2,   983.0,   983.0,   0.0);   (557570.3,
3776648.2,   982.8,   982.8,   0.0);
     (557590.3, 3776648.2,   982.8,   982.8,   0.0);   (557610.3,
3776648.2,   982.7,   982.7,   0.0);
     (557630.3, 3776648.2,   982.8,   982.8,   0.0);   (557650.3,
3776648.2,   982.9,   982.9,   0.0);
     (557670.3, 3776648.2,   982.9,   982.9,   0.0);   (557690.3,
3776648.2,   982.9,   982.9,   0.0);
     (557510.3, 3776668.2,   982.5,   982.5,   0.0);   (557530.3,
3776668.2,   982.4,   982.4,   0.0);
     (557550.3, 3776668.2,   982.2,   982.2,   0.0);   (557570.3,
3776668.2,   982.1,   982.1,   0.0);
     (557590.3, 3776668.2,   982.2,   982.2,   0.0);   (557610.3,
3776668.2,   982.0,   982.0,   0.0);
     (557630.3, 3776668.2,   982.0,   982.0,   0.0);   (557650.3,
3776668.2,   982.2,   982.2,   0.0);
     (557670.3, 3776668.2,   982.2,   982.2,   0.0);   (557690.3,
3776668.2,   982.3,   982.3,   0.0);
     (557510.3, 3776688.2,   981.8,   981.8,   0.0);   (557530.3,
3776688.2,   981.7,   981.7,   0.0);
     (557550.3, 3776688.2,   981.5,   981.5,   0.0);   (557570.3,
3776688.2,   981.4,   981.4,   0.0);
     (557590.3, 3776688.2,   981.3,   981.3,   0.0);   (557610.3,
3776688.2,   981.2,   981.2,   0.0);
     (557630.3, 3776688.2,   981.3,   981.3,   0.0);   (557650.3,
3776688.2,   981.5,   981.5,   0.0);
     (557670.3, 3776688.2,   981.5,   981.5,   0.0);   (557690.3,
3776688.2,   981.4,   981.4,   0.0);
     (556172.5, 3776517.8,   992.8,   992.8,   0.0);   (556192.5,
3776517.8,   992.8,   992.8,   0.0);
     (556212.5, 3776517.8,   993.4,   993.4,   0.0);   (556232.5,
3776517.8,   993.7,   993.7,   0.0);

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     ( 556252.5, 3776517.8,     994.0,     994.0,       0.0);         ( 556272.5,
3776517.8,     994.0,     994.0,       0.0);
     ( 556292.5, 3776517.8,     994.0,     994.0,       0.0);         ( 556312.5,
3776517.8,     994.1,     994.1,       0.0);
     ( 556332.5, 3776517.8,     994.1,     994.1,       0.0);         ( 556352.5,
3776517.8,     994.3,     994.3,       0.0);
     ( 556372.5, 3776517.8,     994.9,     994.9,       0.0);         ( 556392.5,
3776517.8,     994.8,     994.8,       0.0);
     ( 556412.5, 3776517.8,     995.0,     995.0,       0.0);         ( 556432.5,
3776517.8,     995.3,     995.3,       0.0);
     ( 556452.5, 3776517.8,     995.8,     995.8,       0.0);         ( 556472.5,
3776517.8,     995.6,     995.6,       0.0);
     ( 556492.5, 3776517.8,     995.5,     995.5,       0.0);         ( 556172.5,
3776537.8,     992.4,     992.4,       0.0);
     ( 556192.5, 3776537.8,     992.7,     992.7,       0.0);         ( 556212.5,
3776537.8,     992.9,     992.9,       0.0);
     ( 556232.5, 3776537.8,     993.2,     993.2,       0.0);         ( 556252.5,
3776537.8,     993.6,     993.6,       0.0);
     ( 556272.5, 3776537.8,     993.9,     993.9,       0.0);         ( 556292.5,
3776537.8,     993.7,     993.7,       0.0);
     ( 556312.5, 3776537.8,     993.8,     993.8,       0.0);         ( 556332.5,
3776537.8,     993.6,     993.6,       0.0);
     ( 556352.5, 3776537.8,     993.8,     993.8,       0.0);         ( 556372.5,
3776537.8,     994.3,     994.3,       0.0);
     ( 556392.5, 3776537.8,     994.8,     994.8,       0.0);         ( 556412.5,
3776537.8,     994.8,     994.8,       0.0);
     ( 556432.5, 3776537.8,     994.9,     994.9,       0.0);         ( 556452.5,
3776537.8,     995.4,     995.4,       0.0);
     ( 556472.5, 3776537.8,     995.2,     995.2,       0.0);         ( 556492.5,
3776537.8,     995.0,     995.0,       0.0);
     ( 556332.5, 3776557.8,     993.1,     993.1,       0.0);         ( 556352.5,
3776557.8,     993.6,     993.6,       0.0);
     ( 556372.5, 3776557.8,     993.6,     993.6,       0.0);         ( 556392.5,
3776557.8,     994.1,     994.1,       0.0);
     ( 556412.5, 3776557.8,     994.1,     994.1,       0.0);         ( 556432.5,
3776557.8,     994.4,     994.4,       0.0);
     ( 556452.5, 3776557.8,     994.8,     994.8,       0.0);         ( 556472.5,
3776557.8,     994.8,     994.8,       0.0);
     ( 556492.5, 3776557.8,     994.6,     994.6,       0.0);         ( 556332.5,
3776577.8,     992.8,     992.8,       0.0);
     ( 556352.5, 3776577.8,     992.9,     992.9,       0.0);         ( 556372.5,
3776577.8,     993.1,     993.1,       0.0);
     ( 556392.5, 3776577.8,     993.2,     993.2,       0.0);         ( 556412.5,
3776577.8,     993.4,     993.4,       0.0);
     ( 556432.5, 3776577.8,     993.8,     993.8,       0.0);         ( 556452.5,
3776577.8,     994.1,     994.1,       0.0);
     ( 556472.5, 3776577.8,     994.2,     994.2,       0.0);         ( 556492.5,
3776577.8,     994.2,     994.2,       0.0);
     ( 556332.5, 3776597.8,     992.2,     992.2,       0.0);         ( 556352.5,
3776597.8,     992.3,     992.3,       0.0);
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(556372.5, 3776597.8, 992.6, 992.6, 0.0); (556392.5, 3776597.8, 993.0, 993.0, 0.0);
(556412.5, 3776597.8, 992.9, 992.9, 0.0); (556432.5, 3776597.8, 993.3, 993.3, 0.0);
(556452.5, 3776597.8, 993.8, 993.8, 0.0); (556472.5, 3776597.8, 994.0, 994.0, 0.0);
(556492.5, 3776597.8, 993.7, 993.7, 0.0); (556252.5, 3776617.8, 990.9, 990.9, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(556272.5, 3776617.8, 991.3, 991.3, 0.0); (556292.5, 3776617.8, 991.5, 991.5, 0.0);
(556312.5, 3776617.8, 991.5, 991.5, 0.0); (556332.5, 3776617.8, 992.0, 992.0, 0.0);
(556352.5, 3776617.8, 991.8, 991.8, 0.0); (556372.5, 3776617.8, 991.8, 991.8, 0.0);
(556392.5, 3776617.8, 992.2, 992.2, 0.0); (556412.5, 3776617.8, 992.2, 992.2, 0.0);
(556432.5, 3776617.8, 992.7, 992.7, 0.0); (556452.5, 3776617.8, 992.9, 992.9, 0.0);
(556472.5, 3776617.8, 993.6, 993.6, 0.0); (556492.5, 3776617.8, 993.3, 993.3, 0.0);
(556252.5, 3776637.8, 990.4, 990.4, 0.0); (556272.5, 3776637.8, 990.3, 991.2, 0.0);
(556292.5, 3776637.8, 990.9, 990.9, 0.0); (556312.5, 3776637.8, 991.2, 991.2, 0.0);
(556332.5, 3776637.8, 991.1, 991.1, 0.0); (556352.5, 3776637.8, 991.4, 991.4, 0.0);
(556372.5, 3776637.8, 991.3, 991.3, 0.0); (556392.5, 3776637.8, 991.7, 991.7, 0.0);
(556412.5, 3776637.8, 991.9, 991.9, 0.0); (556432.5, 3776637.8, 992.1, 992.1, 0.0);
(556452.5, 3776637.8, 992.5, 992.5, 0.0); (556472.5, 3776637.8, 992.8, 992.8, 0.0);
(556492.5, 3776637.8, 992.9, 992.9, 0.0); (556252.5, 3776657.8, 989.7, 989.7, 0.0);
(556272.5, 3776657.8, 989.8, 989.8, 0.0); (556292.5, 3776657.8, 989.9, 989.9, 0.0);
(556312.5, 3776657.8, 990.8, 990.8, 0.0); (556332.5,

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3776657.8,     990.6,     990.6,       0.0);
     ( 556352.5, 3776657.8,     990.6,     990.6,       0.0);         ( 556372.5,
3776657.8,     990.7,     990.7,       0.0);
     ( 556392.5, 3776657.8,     991.3,     991.3,       0.0);         ( 556412.5,
3776657.8,     991.5,     991.5,       0.0);
     ( 556432.5, 3776657.8,     991.8,     991.8,       0.0);         ( 556452.5,
3776657.8,     992.0,     992.0,       0.0);
     ( 556472.5, 3776657.8,     992.3,     992.3,       0.0);         ( 556492.5,
3776657.8,     992.4,     992.4,       0.0);
     ( 556252.5, 3776677.8,     989.1,     989.1,       0.0);         ( 556272.5,
3776677.8,     989.7,     989.7,       0.0);
     ( 556292.5, 3776677.8,     989.8,     989.8,       0.0);         ( 556312.5,
3776677.8,     989.9,     989.9,       0.0);
     ( 556332.5, 3776677.8,     990.0,     990.0,       0.0);         ( 556352.5,
3776677.8,     990.0,     990.0,       0.0);
     ( 556372.5, 3776677.8,     990.3,     990.3,       0.0);         ( 556392.5,
3776677.8,     990.8,     990.8,       0.0);
     ( 556412.5, 3776677.8,     990.8,     990.8,       0.0);         ( 556432.5,
3776677.8,     991.4,     991.4,       0.0);
     ( 556452.5, 3776677.8,     991.7,     991.7,       0.0);         ( 556472.5,
3776677.8,     991.8,     991.8,       0.0);
     ( 556492.5, 3776677.8,     991.9,     991.9,       0.0);         ( 556252.5,
3776697.8,     988.5,     988.5,       0.0);
     ( 556272.5, 3776697.8,     989.0,     989.0,       0.0);         ( 556372.5,
3776697.8,     989.8,     989.8,       0.0);
     ( 556392.5, 3776697.8,     990.5,     990.5,       0.0);         ( 556412.5,
3776697.8,     990.5,     990.5,       0.0);
     ( 556432.5, 3776697.8,     990.9,     990.9,       0.0);         ( 556452.5,
3776697.8,     991.3,     991.3,       0.0);
     ( 556472.5, 3776697.8,     991.4,     991.4,       0.0);         ( 556492.5,
3776697.8,     991.4,     991.4,       0.0);
     ( 556252.5, 3776717.8,     988.6,     988.6,       0.0);         ( 556272.5,
3776717.8,     988.6,     988.6,       0.0);
     ( 556372.5, 3776717.8,     989.2,     989.2,       0.0);         ( 556392.5,
3776717.8,     990.0,     990.0,       0.0);
     ( 556412.5, 3776717.8,     990.1,     990.1,       0.0);         ( 556432.5,
3776717.8,     990.5,     990.5,       0.0);
     ( 556452.5, 3776717.8,     990.9,     990.9,       0.0);         ( 556472.5,
3776717.8,     990.6,     990.6,       0.0);
     ( 556492.5, 3776717.8,     991.0,     991.0,       0.0);         ( 556267.4,
3776875.8,     984.3,     984.3,       0.0);
     ( 556239.0, 3776853.0,     985.0,     985.0,       0.0);         ( 556178.8,
3776751.2,     986.0,     986.0,       0.0);
     ( 556154.5, 3776774.5,     986.0,     986.0,       0.0);         ( 556119.5,
3776705.1,     986.9,     986.9,       0.0);
     ( 556146.5, 3777267.9,     975.8,     975.8,       0.0);         ( 556151.0,
3777234.9,     976.6,     976.6,       0.0);
     ( 556144.9, 3777179.6,     977.1,     977.1,       0.0);         ( 556205.2,
3777236.5,     976.5,     976.5,       0.0);
     ( 556218.0, 3777200.0,     977.6,     977.6,       0.0);         ( 556772.0,
```

3777346.0,   973.9,   973.9,   0.0);

                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                              (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1

               NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.

                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
                                                        (METERS/SEC)

                                               1.54,   3.09,   5.14,   8.23,
10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\kpsp_sfc_pfl\KPSP_V11_trimmed.sfc
Met Version: 22112
Profile file: ..\kpsp_sfc_pfl\KPSP_V11_trimmed.pfl

Surface format: FREE

Profile format: FREE

Surface station no.: 93138 Upper air station no.: 3190
Name: 33.63 Name: UNKNOWN

Year: 2018 Year: 2018

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
18	01	01	1	01	-14.0	0.169	-9.000	-9.000	-999.	440.	31.3	0.20	3.95	1.00	1.76	251.	10.1	283.1	2.0
18	01	01	1	02	-29.9	0.302	-9.000	-9.000	-999.	400.	100.6	0.42	3.95	1.00	2.36	318.	10.1	283.8	2.0
18	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	283.1	2.0
18	01	01	1	04	-23.9	0.242	-9.000	-9.000	-999.	286.	64.5	0.05	3.95	1.00	3.36	343.	10.1	284.2	2.0
18	01	01	1	05	-22.2	0.222	-9.000	-9.000	-999.	251.	54.3	0.42	3.95	1.00	1.76	313.	10.1	281.4	2.0
18	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	282.0	2.0
18	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	282.0	2.0
18	01	01	1	08	-10.1	0.158	-9.000	-9.000	-999.	151.	34.8	0.15	3.95	0.51	1.76	999.	10.1	284.2	2.0
18	01	01	1	09	49.7	-9.000	-9.000	-9.000	112.	-999.	-99999.0	0.15	3.95	0.31	0.00	0.	10.1	288.1	2.0
18	01	01	1	10	126.4	-9.000	-9.000	-9.000	210.	-999.	-99999.0	0.15	3.95	0.24	0.00	0.	10.1	292.0	2.0
18	01	01	1	11	179.4	0.238	1.188	0.010	336.	279.	-6.8	0.15	3.95	0.22	1.76	999.	10.1	295.3	2.0
18	01	01	1	12	204.5	-9.000	-9.000	-9.000	506.	-999.	-99999.0	0.15	3.95	0.21	0.00	0.	10.1	297.5	2.0
18	01	01	1	13	199.1	-9.000	-9.000	-9.000	674.	-999.	-99999.0	0.15	3.95	0.21	0.00	0.	10.1	297.0	2.0
18	01	01	1	14	166.1	0.306	1.531	0.006	774.	406.	-15.4	0.05	3.95	0.23	3.36	119.	10.1	297.0	2.0
18	01	01	1	15	106.1	0.177	1.363	0.006	855.	189.	-4.7	0.04	3.95						

```
0.26    1.76  132.   10.1  296.4    2.0
 18 01 01   1 16   25.4 -9.000 -9.000 -9.000  876. -999. -99999.0  0.15   3.95
0.36    0.00    0.   10.1  295.9    2.0
 18 01 01   1 17 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.15   3.95
0.66    0.00    0.   10.1  294.8    2.0
 18 01 01   1 18  -16.2  0.186 -9.000 -9.000 -999.  193.     38.1  0.27   3.95
1.00    1.76  237.   10.1  293.1    2.0
 18 01 01   1 19  -14.9  0.167 -9.000 -9.000 -999.  164.     30.6  0.05   3.95
1.00    2.36  334.   10.1  290.9    2.0
 18 01 01   1 20 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.15   3.95
1.00    0.00    0.   10.1  288.8    2.0
 18 01 01   1 21  -23.6  0.242 -9.000 -9.000 -999.  286.     64.5  0.05   3.95
1.00    3.36  330.   10.1  288.1    2.0
 18 01 01   1 22 -999.0 -9.000 -9.000 -9.000 -999. -999. -99999.0  0.15   3.95
1.00    0.00    0.   10.1  286.4    2.0
 18 01 01   1 23  -20.0  0.205 -9.000 -9.000 -999.  222.     46.0  0.05   3.95
1.00    2.86  330.   10.1  288.1    2.0
 18 01 01   1 24  -49.4  0.505 -9.000 -9.000 -999.  862.    280.9  0.42   3.95
1.00    3.86  310.   10.1  287.5    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 18 01 01 01   10.1 1  251.    1.76   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556521.71	3777341.57	10.67747	556539.90	3777344.94	11.56325
556591.78	3777345.39	14.67541	556630.62	3777349.66	17.30293
556684.29	3777349.43	21.72507	556905.58	3777351.19	20.00142
556920.93	3777350.82	18.21962	556942.87	3777350.09	15.71581
556996.26	3777348.26	11.51982	557096.81	3777357.77	7.19829
557115.83	3777363.62	6.54897	557129.36	3777361.43	6.31833
557230.65	3777363.99	4.56747	556466.22	3776816.07	1.17875
556407.87	3776826.19	1.08239	556381.07	3776807.14	0.97900
556404.29	3776771.52	0.91278	556465.21	3776739.51	0.93419
556396.10	3776739.93	0.82990	556323.99	3777265.43	4.09386
556330.60	3777233.99	3.99838	556321.08	3777200.43	3.56097
556275.11	3777267.81	3.39239	556278.28	3777233.46	3.25040
556509.40	3777373.38	9.27434	556529.40	3777373.38	10.08421
556549.40	3777373.38	10.93756	556569.40	3777373.38	11.83563
556589.40	3777373.38	12.87458	556609.40	3777373.38	13.97687
556629.40	3777373.38	15.19192	556649.40	3777373.38	16.38930
556669.40	3777373.38	17.56274	556689.40	3777373.38	18.57535
556709.40	3777373.38	19.30151	556729.40	3777373.38	19.77725
556749.40	3777373.38	20.14351	556769.40	3777373.38	20.28824
556789.40	3777373.38	20.24701	556809.40	3777373.38	20.00951
556829.40	3777373.38	19.58754	556849.40	3777373.38	19.08619
556869.40	3777373.38	18.47020	556889.40	3777373.38	17.46554

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         556909.40    3777373.38       16.08687                       556929.40
3777373.38       14.42445
         556949.40    3777373.38       12.75358                       556969.40
3777373.38       11.28499
         556989.40    3777373.38       10.08600                       557009.40
3777373.38        9.14070
         557029.40    3777373.38        8.41106                       557049.40
3777373.38        7.80250
         557069.40    3777373.38        7.26268                       557089.40
3777373.38        6.79370
         557109.40    3777373.38        6.36847                       557129.40
3777373.38        5.98012
         557149.40    3777373.38        5.62214                       557169.40
3777373.38        5.29558
         557189.40    3777373.38        5.00235                       557209.40
3777373.38        4.72628
         557229.40    3777373.38        4.46061                       557249.40
3777373.38        4.20970
         557269.40    3777373.38        3.97346                       557289.40
3777373.38        3.76250
         557309.40    3777373.38        3.56871                       557329.40
3777373.38        3.37659
         557349.40    3777373.38        3.20904                       557369.40
3777373.38        3.04690
         557389.40    3777373.38        2.89608                       557409.40
3777373.38        2.75552
         557429.40    3777373.38        2.61930                       557449.40
3777373.38        2.49845
         557469.40    3777373.38        2.38158                       557489.40
3777373.38        2.26373
         556509.40    3777393.38        8.78260                       556529.40
3777393.38        9.46253
         556549.40    3777393.38       10.18512                       556569.40
3777393.38       10.95284
         556589.40    3777393.38       11.85580                       556609.40
3777393.38       12.78480
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                L0000093    , L0000094    , L0000095    , L0000096    , L0000097
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, L0000098    , L0000099    , L0000100    ,
                L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777393.38       13.77668                      556649.40
3777393.38       14.64403
         556669.40    3777393.38       15.40384                      556689.40
3777393.38       15.99815
         556709.40    3777393.38       16.46339                      556729.40
3777393.38       16.73479
         556749.40    3777393.38       16.94622                      556769.40
3777393.38       16.96413
         556789.40    3777393.38       16.80301                      556809.40
3777393.38       16.57876
         556829.40    3777393.38       16.31187                      556849.40
3777393.38       15.92986
         556869.40    3777393.38       15.44490                      556889.40
3777393.38       14.77802
         556909.40    3777393.38       13.74663                      556929.40
3777393.38       12.55381
         556949.40    3777393.38       11.22414                      556969.40
3777393.38       10.03148
         556989.40    3777393.38        9.00979                      557009.40
3777393.38        8.17940
         557029.40    3777393.38        7.50198                      557049.40
3777393.38        6.96251
         557069.40    3777393.38        6.51352                      557089.40
3777393.38        6.12462
         557109.40    3777393.38        5.78084                      557129.40
3777393.38        5.44544
         557149.40    3777393.38        5.15911                      557169.40
3777393.38        4.87924
         557189.40    3777393.38        4.62252                      557209.40
3777393.38        4.39680
         557229.40    3777393.38        4.18072                      557249.40
3777393.38        3.96406
         557269.40    3777393.38        3.76568                      557289.40
3777393.38        3.57654
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         557309.40    3777393.38        3.39099                      557329.40
3777393.38        3.23408
         557349.40    3777393.38        3.07995                      557369.40
3777393.38        2.93659
         557389.40    3777393.38        2.80108                      557409.40
3777393.38        2.66847
         557429.40    3777393.38        2.54625                      557449.40
3777393.38        2.43446
         557469.40    3777393.38        2.32335                      557489.40
3777393.38        2.21375
         556509.40    3777413.38        8.29262                      556529.40
3777413.38        8.89166
         556549.40    3777413.38        9.54016                      556569.40
3777413.38       10.23804
         556589.40    3777413.38       10.97807                      556609.40
3777413.38       11.73286
         556629.40    3777413.38       12.47918                      556649.40
3777413.38       13.07238
         556669.40    3777413.38       13.56861                      556689.40
3777413.38       13.91924
         556709.40    3777413.38       14.16330                      556729.40
3777413.38       14.30565
         556749.40    3777413.38       14.34790                      556769.40
3777413.38       14.35321
         556789.40    3777413.38       14.19069                      556809.40
3777413.38       14.05700
         556829.40    3777413.38       13.87123                      556849.40
3777413.38       13.61032
         556869.40    3777413.38       13.28000                      556889.40
3777413.38       12.71798
         556909.40    3777413.38       11.96611                      556929.40
3777413.38       11.09708
         556949.40    3777413.38       10.01931                      556969.40
3777413.38        9.01789
         556989.40    3777413.38        8.12088                      557009.40
3777413.38        7.38304
         557029.40    3777413.38        6.76527                      557049.40
3777413.38        6.27828
         557069.40    3777413.38        5.87973                      557089.40
3777413.38        5.54107
         557109.40    3777413.38        5.25107                      557129.40
3777413.38        4.96288
         557149.40    3777413.38        4.72972                      557169.40
3777413.38        4.49111
         557189.40    3777413.38        4.27897                      557209.40
3777413.38        4.08661
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***

INCLUDING SOURCE(S): L0000088 , L0000089 , L0000090 , L0000091 , L0000092 ,
L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 ,
L0000101 , L0000102 , L0000103 , L0000104 , L0000105 , L0000106 , L0000107 , L0000108 ,
L0000109 , L0000110 , L0000111 , L0000112 , L0000113 , L0000114 , L0000115 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557229.40	3777413.38	3.89466	557249.40	3777413.38	3.71461
557269.40	3777413.38	3.54609	557289.40	3777413.38	3.38467
557309.40	3777413.38	3.23029	557329.40	3777413.38	3.07996
557349.40	3777413.38	2.94958	557369.40	3777413.38	2.81313
557389.40	3777413.38	2.69474	557409.40	3777413.38	2.58024
557429.40	3777413.38	2.46090	557449.40	3777413.38	2.35727
557469.40	3777413.38	2.26156	557489.40	3777413.38	2.16260
556509.40	3777433.38	7.83725	556529.40	3777433.38	8.35763
556549.40	3777433.38	8.91053	556569.40	3777433.38	9.49114
556589.40	3777433.38	10.13177	556609.40	3777433.38	10.73758
556629.40	3777433.38	11.27457	556649.40	3777433.38	11.68911
556669.40	3777433.38	11.97309	556689.40	3777433.38	12.18506

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         556709.40    3777433.38       12.28252                    556729.40
3777433.38       12.35466
         556749.40    3777433.38       12.31848                    556769.40
3777433.38       12.29688
         556789.40    3777433.38       12.17953                    556809.40
3777433.38       12.07883
         556829.40    3777433.38       11.96885                    556849.40
3777433.38       11.75255
         556869.40    3777433.38       11.49773                    556889.40
3777433.38       11.07987
         556909.40    3777433.38       10.52290                    556929.40
3777433.38        9.81618
         556949.40    3777433.38        9.02281                    556969.40
3777433.38        8.17338
         556989.40    3777433.38        7.38730                    557009.40
3777433.38        6.74956
         557029.40    3777433.38        6.18649                    557049.40
3777433.38        5.73628
         557069.40    3777433.38        5.35851                    557089.40
3777433.38        5.04601
         557109.40    3777433.38        4.78641                    557129.40
3777433.38        4.54155
         557149.40    3777433.38        4.33650                    557169.40
3777433.38        4.12938
         557189.40    3777433.38        3.95297                    557209.40
3777433.38        3.78820
         557229.40    3777433.38        3.61865                    557249.40
3777433.38        3.47411
         557269.40    3777433.38        3.32823                    557289.40
3777433.38        3.18431
         557309.40    3777433.38        3.05908                    557329.40
3777433.38        2.92696
         557349.40    3777433.38        2.79496                    557369.40
3777433.38        2.68159
         557389.40    3777433.38        2.58553                    557409.40
3777433.38        2.48431
         557429.40    3777433.38        2.37286                    557449.40
3777433.38        2.27846
         557469.40    3777433.38        2.18736                    557489.40
3777433.38        2.10050
         556509.40    3777453.38        7.40121                    556529.40
3777453.38        7.85894
         556549.40    3777453.38        8.35305                    556569.40
3777453.38        8.83892
         556589.40    3777453.38        9.34499                    556609.40
3777453.38        9.78635
         556629.40    3777453.38       10.17913                    556649.40
3777453.38       10.43499
         556669.40    3777453.38       10.57867                    556689.40
3777453.38       10.66713
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         556709.40    3777453.38       10.69072                       556729.40
3777453.38       10.71947
         556749.40    3777453.38       10.69679                       556769.40
3777453.38       10.64701
         556789.40    3777453.38       10.58414                       556809.40
3777453.38       10.53434
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556829.40    3777453.38       10.49300                       556849.40
3777453.38       10.33852
         556869.40    3777453.38       10.14106                       556889.40
3777453.38        9.76486
         556909.40    3777453.38        9.33740                       556929.40
3777453.38        8.74815
         556949.40    3777453.38        8.12560                       556969.40
3777453.38        7.45096
         556989.40    3777453.38        6.78478                       557009.40
3777453.38        6.18298
         557029.40    3777453.38        5.67489                       557049.40
3777453.38        5.25500
         557069.40    3777453.38        4.91642                       557089.40
3777453.38        4.62914
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        557109.40    3777453.38        4.39050                    557129.40
3777453.38        4.17422
        557149.40    3777453.38        3.99101                    557169.40
3777453.38        3.80458
        557189.40    3777453.38        3.65013                    557209.40
3777453.38        3.51109
        557229.40    3777453.38        3.36572                    557249.40
3777453.38        3.24291
        557269.40    3777453.38        3.11572                    557289.40
3777453.38        2.99383
        557309.40    3777453.38        2.88352                    557329.40
3777453.38        2.77233
        557349.40    3777453.38        2.66720                    557369.40
3777453.38        2.55630
        557389.40    3777453.38        2.46099                    557409.40
3777453.38        2.37732
        557429.40    3777453.38        2.28687                    557449.40
3777453.38        2.20020
        557469.40    3777453.38        2.11497                    557489.40
3777453.38        2.03116
        556509.40    3777473.38        6.99222                    556529.40
3777473.38        7.37046
        556549.40    3777473.38        7.78043                    556569.40
3777473.38        8.21549
        556589.40    3777473.38        8.58520                    556609.40
3777473.38        8.89657
        556629.40    3777473.38        9.13675                    556649.40
3777473.38        9.29293
        556669.40    3777473.38        9.34958                    556689.40
3777473.38        9.36123
        556709.40    3777473.38        9.37008                    556729.40
3777473.38        9.37697
        556749.40    3777473.38        9.33498                    556769.40
3777473.38        9.32268
        556789.40    3777473.38        9.29312                    556809.40
3777473.38        9.28558
        556829.40    3777473.38        9.25518                    556849.40
3777473.38        9.16803
        556869.40    3777473.38        9.01043                    556889.40
3777473.38        8.70184
        556909.40    3777473.38        8.36242                    556929.40
3777473.38        7.91536
        556949.40    3777473.38        7.40189                    556969.40
3777473.38        6.84128
        556989.40    3777473.38        6.27729                    557009.40
3777473.38        5.75289
        557029.40    3777473.38        5.27927                    557049.40
3777473.38        4.87609
        557069.40    3777473.38        4.55328                    557089.40
3777473.38        4.27684
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         557109.40    3777473.38        4.05371                      557129.40
3777473.38        3.85129
         557149.40    3777473.38        3.68835                      557169.40
3777473.38        3.52173
         557189.40    3777473.38        3.38244                      557209.40
3777473.38        3.25636
         557229.40    3777473.38        3.13287                      557249.40
3777473.38        3.02582
         557269.40    3777473.38        2.91442                      557289.40
3777473.38        2.80974
         557309.40    3777473.38        2.71311                      557329.40
3777473.38        2.62052
         557349.40    3777473.38        2.52699                      557369.40
3777473.38        2.43809
         557389.40    3777473.38        2.34882                      557409.40
3777473.38        2.26931
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557429.40    3777473.38        2.18623                      557449.40
3777473.38        2.11595
         557469.40    3777473.38        2.03940                      557489.40
3777473.38        1.96412
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        556509.40    3777493.38        6.60502                    556529.40
3777493.38        6.95946
        556549.40    3777493.38        7.29509                    556569.40
3777493.38        7.56988
        556589.40    3777493.38        7.83861                    556609.40
3777493.38        8.06742
        556629.40    3777493.38        8.18990                    556649.40
3777493.38        8.25433
        556669.40    3777493.38        8.29567                    556689.40
3777493.38        8.28042
        556709.40    3777493.38        8.26833                    556729.40
3777493.38        8.28019
        556749.40    3777493.38        8.23999                    556769.40
3777493.38        8.25242
        556789.40    3777493.38        8.24856                    556809.40
3777493.38        8.24179
        556829.40    3777493.38        8.24511                    556849.40
3777493.38        8.16708
        556869.40    3777493.38        8.04855                    556889.40
3777493.38        7.81902
        556909.40    3777493.38        7.54354                    556929.40
3777493.38        7.18016
        556949.40    3777493.38        6.76328                    556969.40
3777493.38        6.29243
        556989.40    3777493.38        5.82504                    557009.40
3777493.38        5.37007
        557029.40    3777493.38        4.93833                    557049.40
3777493.38        4.55977
        557069.40    3777493.38        4.24752                    557089.40
3777493.38        3.97866
        557109.40    3777493.38        3.76961                    557129.40
3777493.38        3.57879
        557149.40    3777493.38        3.42075                    557169.40
3777493.38        3.27616
        557189.40    3777493.38        3.14089                    557209.40
3777493.38        3.03039
        557229.40    3777493.38        2.91926                    557249.40
3777493.38        2.81921
        557269.40    3777493.38        2.72650                    557289.40
3777493.38        2.63612
        557309.40    3777493.38        2.54752                    557329.40
3777493.38        2.46575
        557349.40    3777493.38        2.38760                    557369.40
3777493.38        2.30997
        557389.40    3777493.38        2.23724                    557409.40
3777493.38        2.16561
        557429.40    3777493.38        2.08594                    557449.40
3777493.38        2.02070
        557469.40    3777493.38        1.95898                    557489.40
3777493.38        1.89312
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         556509.40    3777513.38        6.23300                      556529.40
3777513.38        6.51766
         556549.40    3777513.38        6.76773                      556569.40
3777513.38        7.05073
         556589.40    3777513.38        7.22792                      556609.40
3777513.38        7.32188
         556629.40    3777513.38        7.41093                      556649.40
3777513.38        7.41910
         556669.40    3777513.38        7.40192                      556689.40
3777513.38        7.35745
         556709.40    3777513.38        7.34695                      556729.40
3777513.38        7.36342
         556749.40    3777513.38        7.34928                      556769.40
3777513.38        7.38641
         556789.40    3777513.38        7.40330                      556809.40
3777513.38        7.38931
         556829.40    3777513.38        7.38910                      556849.40
3777513.38        7.32758
         556869.40    3777513.38        7.23607                      556889.40
3777513.38        7.06944
         556909.40    3777513.38        6.82583                      556929.40
3777513.38        6.54607
         556949.40    3777513.38        6.20669                      556969.40
3777513.38        5.81495
         556989.40    3777513.38        5.41026                      557009.40
3777513.38        5.01918
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557029.40	3777513.38	4.63307	557049.40	3777513.38	4.28946
557069.40	3777513.38	3.98387	557089.40	3777513.38	3.72772
557109.40	3777513.38	3.51870	557129.40	3777513.38	3.34125
557149.40	3777513.38	3.19256	557169.40	3777513.38	3.05851
557189.40	3777513.38	2.93307	557209.40	3777513.38	2.83206
557229.40	3777513.38	2.72715	557249.40	3777513.38	2.64124
557269.40	3777513.38	2.55453	557289.40	3777513.38	2.47219
557309.40	3777513.38	2.39805	557329.40	3777513.38	2.32589
557349.40	3777513.38	2.25484	557369.40	3777513.38	2.18521
557389.40	3777513.38	2.12129	557409.40	3777513.38	2.05986
557429.40	3777513.38	1.99380	557449.40	3777513.38	1.93205
557469.40	3777513.38	1.87383	557489.40	3777513.38	1.81766
556509.40	3777533.38	5.87252	556529.40	3777533.38	6.11223
556549.40	3777533.38	6.31122	556569.40	3777533.38	6.47236
556589.40	3777533.38	6.57863	556609.40	3777533.38	6.63865
556629.40	3777533.38	6.65652	556649.40	3777533.38	6.63934
556669.40	3777533.38	6.58875	556689.40	3777533.38	6.56475
556709.40	3777533.38	6.57435	556729.40	3777533.38	6.59350
556749.40	3777533.38	6.60870	556769.40	3777533.38	6.64543
556789.40	3777533.38	6.68485	556809.40	3777533.38	6.67645
556829.40	3777533.38	6.68367	556849.40	3777533.38	6.61846
556869.40	3777533.38	6.53989	556889.40	3777533.38	6.41815

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         556909.40    3777533.38        6.22796                      556929.40
3777533.38        5.98973
         556949.40    3777533.38        5.70660                      556969.40
3777533.38        5.37652
         556989.40    3777533.38        5.03505                      557009.40
3777533.38        4.69592
         557029.40    3777533.38        4.35630                      557049.40
3777533.38        4.04281
         557069.40    3777533.38        3.76034                      557089.40
3777533.38        3.51460
         557109.40    3777533.38        3.30900                      557129.40
3777533.38        3.14084
         557149.40    3777533.38        2.99784                      557169.40
3777533.38        2.86550
         557189.40    3777533.38        2.74966                      557209.40
3777533.38        2.65570
         557229.40    3777533.38        2.55497                      557249.40
3777533.38        2.47639
         557269.40    3777533.38        2.39666                      557289.40
3777533.38        2.32461
         557309.40    3777533.38        2.25670                      557329.40
3777533.38        2.19200
         557349.40    3777533.38        2.13044                      557369.40
3777533.38        2.06868
         557389.40    3777533.38        2.00657                      557409.40
3777533.38        1.95417
         557429.40    3777533.38        1.89880                      557449.40
3777533.38        1.84643
         557469.40    3777533.38        1.79092                      557489.40
3777533.38        1.73821
         556509.40    3777553.38        5.53449                      556529.40
3777553.38        5.71571
         556549.40    3777553.38        5.85025                      556569.40
3777553.38        5.95998
         556589.40    3777553.38        6.02214                      556609.40
3777553.38        6.02268
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                L0000093    , L0000094    , L0000095    , L0000096    , L0000097
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, L0000098    , L0000099    , L0000100    ,
                L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777553.38        6.00600                       556649.40
3777553.38        5.97587
         556669.40    3777553.38        5.91218                       556689.40
3777553.38        5.89150
         556709.40    3777553.38        5.91383                       556729.40
3777553.38        5.94320
         556749.40    3777553.38        5.95594                       556769.40
3777553.38        6.00243
         556789.40    3777553.38        6.05565                       556809.40
3777553.38        6.06422
         556829.40    3777553.38        6.06443                       556849.40
3777553.38        6.01809
         556869.40    3777553.38        5.95378                       556889.40
3777553.38        5.85548
         556909.40    3777553.38        5.70958                       556929.40
3777553.38        5.52576
         556949.40    3777553.38        5.25810                       556969.40
3777553.38        4.98801
         556989.40    3777553.38        4.68687                       557009.40
3777553.38        4.39448
         557029.40    3777553.38        4.09368                       557049.40
3777553.38        3.81518
         557069.40    3777553.38        3.55639                       557089.40
3777553.38        3.32368
         557109.40    3777553.38        3.12173                       557129.40
3777553.38        2.95783
         557149.40    3777553.38        2.81916                       557169.40
3777553.38        2.69553
         557189.40    3777553.38        2.58714                       557209.40
3777553.38        2.49212
         557229.40    3777553.38        2.40331                       557249.40
3777553.38        2.32371
         557269.40    3777553.38        2.25245                       557289.40
3777553.38        2.18707
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         557309.40    3777553.38        2.12506                      557329.40
3777553.38        2.06622
         557349.40    3777553.38        2.01198                      557369.40
3777553.38        1.95888
         557389.40    3777553.38        1.90338                      557409.40
3777553.38        1.85408
         557429.40    3777553.38        1.80521                      557449.40
3777553.38        1.75895
         557469.40    3777553.38        1.71177                      557489.40
3777553.38        1.66170
         557438.91    3777336.71        2.65844                      556615.91
3777136.99       22.22884
         556586.37    3777056.16        7.85350                      556672.35
3776929.14        5.82775
         556692.35    3776929.14        6.49650                      556712.35
3776929.14        7.31865
         556732.35    3776929.14        8.23114                      556752.35
3776929.14        9.20851
         556772.35    3776929.14        9.99751                      556792.35
3776929.14       10.62399
         556812.35    3776929.14       11.29618                      556832.35
3776929.14       11.85832
         556852.35    3776929.14       12.64250                      556672.35
3776949.14        6.54657
         556692.35    3776949.14        7.38138                      556712.35
3776949.14        8.38869
         556732.35    3776949.14        9.47809                      556752.35
3776949.14       10.49507
         556772.35    3776949.14       11.35045                      556792.35
3776949.14       12.09233
         556812.35    3776949.14       12.73547                      556832.35
3776949.14       13.38073
         556852.35    3776949.14       14.35220                      556672.35
3776969.14        7.42531
         556692.35    3776969.14        8.48282                      556712.35
3776969.14        9.75068
         556732.35    3776969.14       11.05192                      556752.35
3776969.14       12.16353
         556772.35    3776969.14       13.00770                      556792.35
3776969.14       13.73896
         556812.35    3776969.14       14.42168                      556832.35
3776969.14       15.26995
         556852.35    3776969.14       16.51882                      556672.35
3776989.14        8.52768
         556692.35    3776989.14        9.88801                      556712.35
3776989.14       11.48610
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***

INCLUDING SOURCE(S): L0000088 , L0000089 , L0000090 , L0000091 , L0000092 ,
L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 ,
L0000101 , L0000102 , L0000103 , L0000104 , L0000105 , L0000106 , L0000107 , L0000108 ,
L0000109 , L0000110 , L0000111 , L0000112 , L0000113 , L0000114 , L0000115 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556732.35	3776989.14	13.00631	556752.35	3776989.14	14.17091
556772.35	3776989.14	14.96787	556792.35	3776989.14	15.65986
556812.35	3776989.14	16.44216	556832.35	3776989.14	17.64222
556852.35	3776989.14	19.33563	556672.35	3777009.14	9.93740
556692.35	3777009.14	11.73440	556712.35	3777009.14	13.74154
556732.35	3777009.14	15.44162	556752.35	3777009.14	16.57917
556772.35	3777009.14	17.31659	556792.35	3777009.14	18.05863
556812.35	3777009.14	19.07344	556832.35	3777009.14	20.74329
556852.35	3777009.14	23.08819	556672.35	3777029.14	11.83500
556692.35	3777029.14	14.24599	556712.35	3777029.14	16.73080
556732.35	3777029.14	18.48182	556752.35	3777029.14	19.49126
556772.35	3777029.14	20.20510	556792.35	3777029.14	21.11246

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         556812.35    3777029.14       22.55460                    556832.35
3777029.14       25.03332
         556852.35    3777029.14       28.20675                    556672.35
3777049.14       14.50883
         556692.35    3777049.14       17.81061                    556712.35
3777049.14       20.71813
         556732.35    3777049.14       22.30506                    556752.35
3777049.14       23.13036
         556772.35    3777049.14       23.93084                    556792.35
3777049.14       25.16045
         556812.35    3777049.14       27.39856                    556832.35
3777049.14       31.19073
         556852.35    3777049.14       35.38436                    556927.54
3776959.53       18.63171
         556947.54    3776959.53       17.67523                    556967.54
3776959.53       16.00103
         556987.54    3776959.53       13.99140                    557007.54
3776959.53       11.95834
         557027.54    3776959.53       10.13413                    557047.54
3776959.53        8.63542
         557067.54    3776959.53        7.47780                    557087.54
3776959.53        6.61372
         556927.54    3776979.53       20.84703                    556947.54
3776979.53       19.25480
         556967.54    3776979.53       17.01573                    556987.54
3776979.53       14.57886
         557007.54    3776979.53       12.29068                    557027.54
3776979.53       10.36603
         557047.54    3776979.53        8.86165                    557067.54
3776979.53        7.73714
         557087.54    3776979.53        6.90560                    556927.54
3776999.53       23.29981
         556947.54    3776999.53       20.94710                    556967.54
3776999.53       18.05032
         556987.54    3776999.53       15.17418                    557007.54
3776999.53       12.67132
         557027.54    3776999.53       10.68526                    557047.54
3776999.53        9.19334
         557067.54    3776999.53        8.09639                    557087.54
3776999.53        7.27702
         556927.54    3777019.53       26.04516                    556947.54
3777019.53       22.74668
         556967.54    3777019.53       19.12625                    556987.54
3777019.53       15.82748
         557007.54    3777019.53       13.15413                    557027.54
3777019.53       11.13224
         557047.54    3777019.53        9.65004                    557067.54
3777019.53        8.55688
         557087.54    3777019.53        7.71566                    556927.54
3777039.53       29.19416
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         556947.54    3777039.53       24.71075                       556967.54
3777039.53       20.29947
         556987.54    3777039.53       16.60950                       557007.54
3777039.53       13.79562
         557027.54    3777039.53       11.73576                       557047.54
3777039.53       10.23460
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557067.54    3777039.53        9.10197                       557087.54
3777039.53        8.19860
         557047.54    3777059.53       10.84210                       557067.54
3777059.53        9.61376
         557087.54    3777059.53        8.61105                       556919.02
3777174.93       82.33241
         556939.02    3777174.93       54.40049                       556919.02
3777194.93       83.04048
         556939.02    3777194.93       55.22847                       556919.02
3777214.93       80.18568
         556939.02    3777214.93       54.05905                       556919.02
3777234.93       75.54813
         556939.02    3777234.93       50.85054                       556919.02
3777254.93       62.49577
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         556939.02    3777254.93       44.13833                    557023.57
3777171.57       18.47045
         557043.57    3777171.57       15.51757                    557063.57
3777171.57       13.23801
         557083.57    3777171.57       11.45936                    557023.57
3777191.57       19.20324
         557043.57    3777191.57       16.08043                    557063.57
3777191.57       13.68183
         557083.57    3777191.57       11.83424                    557023.57
3777211.57       19.48689
         557043.57    3777211.57       16.38865                    557063.57
3777211.57       13.99837
         557083.57    3777211.57       12.03713                    557023.57
3777231.57       19.21800
         557043.57    3777231.57       16.29869                    557063.57
3777231.57       14.01553
         557083.57    3777231.57       12.01187                    557023.57
3777251.57       18.32876
         557043.57    3777251.57       15.72332                    557063.57
3777251.57       13.66147
         557083.57    3777251.57       11.70075                    556249.05
3776972.85        1.52244
         556269.05    3776972.85        1.55468                    556229.05
3776992.85        1.56474
         556249.05    3776992.85        1.58328                    556269.05
3776992.85        1.65997
         556289.05    3776992.85        1.71731                    556309.05
3776992.85        1.78197
         556329.05    3776992.85        1.77892                    556209.05
3777012.85        1.59434
         556229.05    3777012.85        1.59914                    556249.05
3777012.85        1.66255
         556269.05    3777012.85        1.74861                    556289.05
3777012.85        1.85143
         556309.05    3777012.85        1.91920                    556329.05
3777012.85        2.04209
         556209.05    3777032.85        1.63843                    556229.05
3777032.85        1.70474
         556249.05    3777032.85        1.75207                    556269.05
3777032.85        1.85065
         556289.05    3777032.85        1.96486                    556309.05
3777032.85        2.08365
         556209.05    3777052.85        1.70490                    556229.05
3777052.85        1.78402
         556249.05    3777052.85        1.88640                    556269.05
3777052.85        1.99532
         556289.05    3777052.85        2.11656                    556309.05
3777052.85        2.25134
         556249.05    3777072.85        1.98036                    556269.05
3777072.85        2.10020
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         556289.05    3777072.85        2.23004                      556269.05
3777092.85        2.20553
         556441.69    3776927.49        1.70218                      556461.69
3776927.49        1.79755
         556481.69    3776927.49        1.86372                      556421.69
3776947.49        1.81306
         556441.69    3776947.49        1.85724                      556461.69
3776947.49        1.96510
         556481.69    3776947.49        2.04756                      556401.69
3776967.49        1.90586
         556421.69    3776967.49        1.99302                      556441.69
3776967.49        2.04177
         556461.69    3776967.49        2.12686                      556481.69
3776967.49        2.26508
         556401.69    3776987.49        2.06049                      556421.69
3776987.49        2.15159
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:21:34

                                PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556441.69    3776987.49        2.26773                      556461.69
3776987.49        2.37592
         556481.69    3776987.49        2.52836                      556421.69
3777007.49        2.32167
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3777007.49        2.59665
         556481.69    3777007.49        2.79611                    556441.69
3777027.49        2.64968
         556461.69    3777027.49        2.81426                    556481.69
3777027.49        3.06535
         556251.24    3777154.95        2.46734                    556261.28
3777141.20        2.46501
         556264.98    3777168.16        2.66337                    556279.25
3777151.77        2.68635
         556202.60    3777113.45        1.93828                    556220.05
3777109.75        2.01771
         556187.53    3777090.19        1.77104                    556164.27
3777121.38        1.79213
         557510.26    3776508.23        1.54963                    557530.26
3776508.23        1.50850
         557550.26    3776508.23        1.46752                    557570.26
3776508.23        1.42705
         557590.26    3776508.23        1.38795                    557610.26
3776508.23        1.35043
         557630.26    3776508.23        1.31301                    557650.26
3776508.23        1.27696
         557670.26    3776508.23        1.24103                    557690.26
3776508.23        1.20578
         557510.26    3776528.23        1.57915                    557530.26
3776528.23        1.53503
         557550.26    3776528.23        1.49202                    557570.26
3776528.23        1.44874
         557590.26    3776528.23        1.40804                    557610.26
3776528.23        1.36846
         557630.26    3776528.23        1.33021                    557650.26
3776528.23        1.29326
         557670.26    3776528.23        1.25581                    557690.26
3776528.23        1.22037
         557510.26    3776548.23        1.60598                    557530.26
3776548.23        1.56088
         557550.26    3776548.23        1.51321                    557570.26
3776548.23        1.46783
         557590.26    3776548.23        1.42607                    557610.26
3776548.23        1.38488
         557630.26    3776548.23        1.34544                    557650.26
3776548.23        1.30785
         557670.26    3776548.23        1.27016                    557690.26
3776548.23        1.23458
         557510.26    3776568.23        1.63155                    557530.26
3776568.23        1.58366
         557550.26    3776568.23        1.53466                    557570.26
3776568.23        1.48655
         557590.26    3776568.23        1.44268                    557610.26
3776568.23        1.40014
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         557630.26    3776568.23        1.35967                       557650.26
3776568.23        1.32190
         557670.26    3776568.23        1.28365                       557690.26
3776568.23        1.24697
         557510.26    3776588.23        1.65503                       557530.26
3776588.23        1.60575
         557550.26    3776588.23        1.55476                       557570.26
3776588.23        1.50392
         557590.26    3776588.23        1.45710                       557610.26
3776588.23        1.41356
         557630.26    3776588.23        1.37383                       557650.26
3776588.23        1.33507
         557670.26    3776588.23        1.29715                       557690.26
3776588.23        1.26079
         557510.26    3776608.23        1.67654                       557530.26
3776608.23        1.62558
         557550.26    3776608.23        1.57231                       557570.26
3776608.23        1.52085
         557590.26    3776608.23        1.47147                       557610.26
3776608.23        1.42701
         557630.26    3776608.23        1.38670                       557650.26
3776608.23        1.34707
         557670.26    3776608.23        1.30828                       557690.26
3776608.23        1.27099
         557510.26    3776628.23        1.69698                       557530.26
3776628.23        1.64319
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557550.26	3776628.23	1.58729	557570.26	3776628.23	1.53973
557590.26	3776628.23	1.48561	557610.26	3776628.23	1.44008
557630.26	3776628.23	1.39783	557650.26	3776628.23	1.35877
557670.26	3776628.23	1.31947	557690.26	3776628.23	1.28217
557510.26	3776648.23	1.71492	557530.26	3776648.23	1.65703
557550.26	3776648.23	1.59967	557570.26	3776648.23	1.49976
557590.26	3776648.23	1.45429	557610.26	3776648.23	1.40187
557630.26	3776648.23	1.36869	557650.26	3776648.23	1.34073
557670.26	3776648.23	1.30153	557690.26	3776648.23	1.27372
557510.26	3776668.23	1.64773	557530.26	3776668.23	1.57095
557550.26	3776668.23	1.50179	557570.26	3776668.23	1.43367
557590.26	3776668.23	1.41060	557610.26	3776668.23	1.33606
557630.26	3776668.23	1.30799	557650.26	3776668.23	1.28830
557670.26	3776668.23	1.25160	557690.26	3776668.23	1.22233
557510.26	3776688.23	1.58258	557530.26	3776688.23	1.52061
557550.26	3776688.23	1.43658	557570.26	3776688.23	1.39126
557590.26	3776688.23	1.34877	557610.26	3776688.23	1.27732
557630.26	3776688.23	1.25967	557650.26	3776688.23	1.23369
557670.26	3776688.23	1.19807	557690.26	3776688.23	1.16331
556172.49	3776517.81	0.37368	556192.49	3776517.81	0.38716
556212.49	3776517.81	0.39065	556232.49	3776517.81	0.39868
556252.49	3776517.81	0.40696	556272.49	3776517.81	0.42077

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         556292.49    3776517.81        0.43335                       556312.49
3776517.81        0.44386
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3776517.81        0.46777
         556372.49    3776517.81        0.46881                       556392.49
3776517.81        0.48460
         556412.49    3776517.81        0.49401                       556432.49
3776517.81        0.50130
         556452.49    3776517.81        0.50704                       556472.49
3776517.81        0.52534
         556492.49    3776517.81        0.54144                       556172.49
3776537.81        0.38387
         556192.49    3776537.81        0.39387                       556212.49
3776537.81        0.40462
         556232.49    3776537.81        0.41276                       556252.49
3776537.81        0.42139
         556272.49    3776537.81        0.42894                       556292.49
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3776537.81        0.47751
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         556392.49    3776537.81        0.49675                       556412.49
3776537.81        0.51249
         556432.49    3776537.81        0.52431                       556452.49
3776537.81        0.52959
         556472.49    3776537.81        0.54963                       556492.49
3776537.81        0.56898
         556332.49    3776557.81        0.50036                       556352.49
3776557.81        0.50621
         556372.49    3776557.81        0.52014                       556392.49
3776557.81        0.52647
         556412.49    3776557.81        0.54247                       556432.49
3776557.81        0.55141
         556452.49    3776557.81        0.55685                       556472.49
3776557.81        0.57415
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                L0000093    , L0000094    , L0000095    , L0000096    , L0000097
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, L0000098    , L0000099    , L0000100    ,
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, L0000106    , L0000107    , L0000108    ,
                L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         556492.49    3776557.81        0.59746                       556332.49
3776577.81        0.51645
         556352.49    3776577.81        0.53325                       556372.49
3776577.81        0.54634
         556392.49    3776577.81        0.56051                       556412.49
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         556432.49    3776577.81        0.58077                       556452.49
3776577.81        0.59110
         556472.49    3776577.81        0.60842                       556492.49
3776577.81        0.62827
         556332.49    3776597.81        0.54272                       556352.49
3776597.81        0.55856
         556372.49    3776597.81        0.57270                       556392.49
3776597.81        0.58093
         556412.49    3776597.81        0.60341                       556432.49
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         556492.49    3776597.81        0.66090                       556252.49
3776617.81        0.50088
         556272.49    3776617.81        0.51245                       556292.49
3776617.81        0.52791
         556312.49    3776617.81        0.54749                       556332.49
3776617.81        0.55764
         556352.49    3776617.81        0.58454                       556372.49
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         556392.49    3776617.81        0.61895                       556412.49
3776617.81        0.63896
         556432.49    3776617.81        0.64627                       556452.49
3776617.81        0.66196
         556472.49    3776617.81        0.66451                       556492.49
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3776637.81        0.54268
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         556292.49    3776677.81        0.60162                    556312.49
3776677.81        0.62261
         556332.49    3776677.81        0.64622                    556352.49
3776677.81        0.67376
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3776677.81        0.71246
         556412.49    3776677.81        0.74045                    556432.49
3776677.81        0.75226
         556452.49    3776677.81        0.77093                    556472.49
3776677.81        0.79530
         556492.49    3776677.81        0.82068                    556252.49
3776697.81        0.60698
         556272.49    3776697.81        0.61438                    556372.49
3776697.81        0.73017
         556392.49    3776697.81        0.74033                    556412.49
3776697.81        0.77098
         556432.49    3776697.81        0.79089                    556452.49
3776697.81        0.80875
         556472.49    3776697.81        0.83771                    556492.49
3776697.81        0.86974
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ONSITE ***

INCLUDING SOURCE(S): L0000088 , L0000089 , L0000090 , L0000091 , L0000092 ,
  L0000093 , L0000094 , L0000095 , L0000096 , L0000097 , L0000098 , L0000099 , L0000100 ,
  L0000101 , L0000102 , L0000103 , L0000104 , L0000105 , L0000106 , L0000107 , L0000108 ,
  L0000109 , L0000110 , L0000111 , L0000112 , L0000113 , L0000114 , L0000115 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556252.49	3776717.81	0.62830	556272.49	3776717.81	0.64730
556372.49	3776717.81	0.76554	556392.49	3776717.81	0.77391
556412.49	3776717.81	0.80858	556432.49	3776717.81	0.83163
556452.49	3776717.81	0.85291	556472.49	3776717.81	0.90009
556492.49	3776717.81	0.92185	556267.40	3776875.81	1.13810
556239.03	3776853.02	1.00678	556178.76	3776751.21	0.69947
556154.45	3776774.51	0.73205	556119.50	3776705.11	0.58021
556146.51	3777267.93	2.21880	556151.00	3777234.88	2.14574
556144.93	3777179.58	1.91636	556205.18	3777236.46	2.53957
556218.00	3777200.04	2.46543	556772.00	3777345.97	26.47298

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***

INCLUDING SOURCE(S): L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000120 , L0000121 , L0000122 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556521.71	3777341.57	13.40335	556539.90	3777344.94	14.38685
556591.78	3777345.39	15.82620	556630.62	3777349.66	17.02090
556684.29	3777349.43	20.69001	556905.58	3777351.19	74.92629
556920.93	3777350.82	70.77123	556942.87	3777350.09	59.56667
556996.26	3777348.26	32.17716	557096.81	3777357.77	13.25172
557115.83	3777363.62	11.40587	557129.36	3777361.43	10.60336
557230.65	3777363.99	6.27018	556466.22	3776816.07	1.06198
556407.87	3776826.19	0.96443	556381.07	3776807.14	0.87152
556404.29	3776771.52	0.82758	556465.21	3776739.51	0.81849
556396.10	3776739.93	0.75468	556323.99	3777265.43	4.25122
556330.60	3777233.99	4.04556	556321.08	3777200.43	3.42672
556275.11	3777267.81	3.46621	556278.28	3777233.46	3.25743
556509.40	3777373.38	11.12557	556529.40	3777373.38	11.87262
556549.40	3777373.38	12.32871	556569.40	3777373.38	12.57043
556589.40	3777373.38	12.94803	556609.40		

```
3777373.38       13.64792
         556629.40    3777373.38       14.69450                  556649.40
3777373.38       15.90562
         556669.40    3777373.38       17.21590                  556689.40
3777373.38       18.55852
         556709.40    3777373.38       19.91844                  556729.40
3777373.38       21.45573
         556749.40    3777373.38       23.51243                  556769.40
3777373.38       26.54280
         556789.40    3777373.38       30.76551                  556809.40
3777373.38       35.69770
         556829.40    3777373.38       40.25385                  556849.40
3777373.38       43.72647
         556869.40    3777373.38       46.13810                  556889.40
3777373.38       47.22113
         556909.40    3777373.38       46.65029                  556929.40
3777373.38       43.50144
         556949.40    3777373.38       37.42171                  556969.40
3777373.38       30.37707
         556989.40    3777373.38       24.64842                  557009.40
3777373.38       20.79461
         557029.40    3777373.38       18.16659                  557049.40
3777373.38       16.05618
         557069.40    3777373.38       14.20750                  557089.40
3777373.38       12.62465
         557109.40    3777373.38       11.25044                  557129.40
3777373.38       10.06621
         557149.40    3777373.38        9.04551                  557169.40
3777373.38        8.17306
         557189.40    3777373.38        7.43353                  557209.40
3777373.38        6.78465
         557229.40    3777373.38        6.20526                  557249.40
3777373.38        5.69247
         557269.40    3777373.38        5.23754                  557289.40
3777373.38        4.84697
         557309.40    3777373.38        4.50322                  557329.40
3777373.38        4.18235
         557349.40    3777373.38        3.90853                  557369.40
3777373.38        3.65526
         557389.40    3777373.38        3.42705                  557409.40
3777373.38        3.22049
         557429.40    3777373.38        3.02721                  557449.40
3777373.38        2.85798
         557469.40    3777373.38        2.69903                  557489.40
3777373.38        2.54410
         556509.40    3777393.38       10.20136                  556529.40
3777393.38       10.62953
         556549.40    3777393.38       10.87702                  556569.40
3777393.38       11.10561
         556589.40    3777393.38       11.57512                  556609.40
```

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE ***
                                  INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                 L0000120   , L0000121   , L0000122   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         556629.40   3777393.38   13.29196   556649.40
3777393.38   14.37983
         556669.40   3777393.38   15.57845   556689.40
3777393.38   16.87470
         556709.40   3777393.38   18.29489   556729.40
3777393.38   19.89587
         556749.40   3777393.38   21.87351   556769.40
3777393.38   24.39038
         556789.40   3777393.38   27.31381   556809.40
3777393.38   30.01976
         556829.40   3777393.38   31.88860   556849.40
3777393.38   32.73193
         556869.40   3777393.38   33.11271   556889.40
3777393.38   33.54297
         556909.40   3777393.38   33.46772   556929.40
3777393.38   32.11537
         556949.40   3777393.38   28.56676   556969.40
3777393.38   24.19510
         556989.40   3777393.38   20.10951   557009.40
3777393.38   17.05575
         557029.40   3777393.38   14.91491   557049.40
3777393.38   13.36374
         557069.40   3777393.38   12.09819   557089.40
3777393.38   10.99081

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        557109.40    3777393.38       10.00689                    557129.40
3777393.38        9.08076
        557149.40    3777393.38        8.29864                    557169.40
3777393.38        7.57690
        557189.40    3777393.38        6.94335                    557209.40
3777393.38        6.40354
        557229.40    3777393.38        5.91554                    557249.40
3777393.38        5.46014
        557269.40    3777393.38        5.06072                    557289.40
3777393.38        4.69931
        557309.40    3777393.38        4.36451                    557329.40
3777393.38        4.08548
        557349.40    3777393.38        3.82494                    557369.40
3777393.38        3.59063
        557389.40    3777393.38        3.37677                    557409.40
3777393.38        3.17575
        557429.40    3777393.38        2.99489                    557449.40
3777393.38        2.83272
        557469.40    3777393.38        2.67710                    557489.40
3777393.38        2.52817
        556509.40    3777413.38        9.28088                    556529.40
3777413.38        9.53922
        556549.40    3777413.38        9.73802                    556569.40
3777413.38       10.03087
        556589.40    3777413.38       10.53820                    556609.40
3777413.38       11.26268
        556629.40    3777413.38       12.15228                    556649.40
3777413.38       13.14105
        556669.40    3777413.38       14.26062                    556689.40
3777413.38       15.49976
        556709.40    3777413.38       16.87715                    556729.40
3777413.38       18.42407
        556749.40    3777413.38       20.18137                    556769.40
3777413.38       22.08015
        556789.40    3777413.38       23.80010                    556809.40
3777413.38       24.93064
        556829.40    3777413.38       25.27186                    556849.40
3777413.38       25.09909
        556869.40    3777413.38       25.08191                    556889.40
3777413.38       25.29703
        556909.40    3777413.38       25.49181                    556929.40
3777413.38       24.93945
        556949.40    3777413.38       22.76469                    556969.40
3777413.38       19.88149
        556989.40    3777413.38       16.88609                    557009.40
3777413.38       14.43388
        557029.40    3777413.38       12.59856                    557049.40
3777413.38       11.31540
        557069.40    3777413.38       10.33768                    557089.40
3777413.38        9.51683
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         557109.40    3777413.38        8.80039                       557129.40
3777413.38        8.09537
         557149.40    3777413.38        7.50979                       557169.40
3777413.38        6.93375
         557189.40    3777413.38        6.42811                       557209.40
3777413.38        5.97926
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                 L0000120    , L0000121    , L0000122    ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557229.40    3777413.38        5.55438                       557249.40
3777413.38        5.17069
         557269.40    3777413.38        4.82495                       557289.40
3777413.38        4.50822
         557309.40    3777413.38        4.21817                       557329.40
3777413.38        3.94869
         557349.40    3777413.38        3.71843                       557369.40
3777413.38        3.49163
         557389.40    3777413.38        3.29732                       557409.40
3777413.38        3.11607
         557429.40    3777413.38        2.93647                       557449.40
3777413.38        2.78193
         557469.40    3777413.38        2.64197                       557489.40
3777413.38        2.50300
         556509.40    3777433.38        8.43699                       556529.40
3777433.38        8.60968
         556549.40    3777433.38        8.80938                       556569.40
3777433.38        9.14888
         556589.40    3777433.38        9.69446                       556609.40
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3777433.38       10.39034
         556629.40    3777433.38       11.20565                  556649.40
3777433.38       12.12735
         556669.40    3777433.38       13.16328                  556689.40
3777433.38       14.33515
         556709.40    3777433.38       15.61463                  556729.40
3777433.38       17.01295
         556749.40    3777433.38       18.42579                  556769.40
3777433.38       19.68608
         556789.40    3777433.38       20.45174                  556809.40
3777433.38       20.57108
         556829.40    3777433.38       20.21785                  556849.40
3777433.38       19.72589
         556869.40    3777433.38       19.66702                  556889.40
3777433.38       19.92073
         556909.40    3777433.38       20.15700                  556929.40
3777433.38       19.79840
         556949.40    3777433.38       18.63125                  556969.40
3777433.38       16.66990
         556989.40    3777433.38       14.46806                  557009.40
3777433.38       12.56672
         557029.40    3777433.38       10.98032                  557049.40
3777433.38        9.83486
         557069.40    3777433.38        8.97030                  557089.40
3777433.38        8.29237
         557109.40    3777433.38        7.73079                  557129.40
3777433.38        7.19839
         557149.40    3777433.38        6.73992                  557169.40
3777433.38        6.28267
         557189.40    3777433.38        5.88755                  557209.40
3777433.38        5.52232
         557229.40    3777433.38        5.16182                  557249.40
3777433.38        4.85391
         557269.40    3777433.38        4.55667                  557289.40
3777433.38        4.27536
         557309.40    3777433.38        4.03286                  557329.40
3777433.38        3.79196
         557349.40    3777433.38        3.56197                  557369.40
3777433.38        3.36626
         557389.40    3777433.38        3.20072                  557409.40
3777433.38        3.03550
         557429.40    3777433.38        2.86437                  557449.40
3777433.38        2.71989
         557469.40    3777433.38        2.58433                  557489.40
3777433.38        2.45819
         556509.40    3777453.38        7.68197                  556529.40
3777453.38        7.83813
         556549.40    3777453.38        8.08201                  556569.40
3777453.38        8.45849
         556589.40    3777453.38        8.99829                  556609.40
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3777453.38        9.64699
         556629.40    3777453.38       10.41085                       556649.40
3777453.38       11.26263
         556669.40    3777453.38       12.21659                       556689.40
3777453.38       13.28691
         556709.40    3777453.38       14.42633                       556729.40
3777453.38       15.61001
         556749.40    3777453.38       16.64065                       556769.40
3777453.38       17.30654
         556789.40    3777453.38       17.41674                       556809.40
3777453.38       17.04202
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556829.40    3777453.38       16.52723                       556849.40
3777453.38       16.09090
         556869.40    3777453.38       16.08322                       556889.40
3777453.38       16.22293
         556909.40    3777453.38       16.41141                       556929.40
3777453.38       16.12966
         556949.40    3777453.38       15.42557                       556969.40
3777453.38       14.17505
         556989.40    3777453.38       12.60135                       557009.40
3777453.38       11.02917
         557029.40    3777453.38        9.69581                       557049.40
3777453.38        8.66308
         557069.40    3777453.38        7.90401                       557089.40
3777453.38        7.31237
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         557109.40    3777453.38        6.83963                    557129.40
3777453.38        6.41476
         557149.40    3777453.38        6.04751                    557169.40
3777453.38        5.67433
         557189.40    3777453.38        5.35694                    557209.40
3777453.38        5.06797
         557229.40    3777453.38        4.77371                    557249.40
3777453.38        4.52133
         557269.40    3777453.38        4.26908                    557289.40
3777453.38        4.03259
         557309.40    3777453.38        3.82070                    557329.40
3777453.38        3.61522
         557349.40    3777453.38        3.42564                    557369.40
3777453.38        3.23565
         557389.40    3777453.38        3.07308                    557409.40
3777453.38        2.93131
         557429.40    3777453.38        2.78626                    557449.40
3777453.38        2.65095
         557469.40    3777453.38        2.52195                    557489.40
3777453.38        2.39877
         556509.40    3777473.38        7.03548                    556529.40
3777473.38        7.19341
         556549.40    3777473.38        7.46768                    556569.40
3777473.38        7.88591
         556589.40    3777473.38        8.39802                    556609.40
3777473.38        9.00238
         556629.40    3777473.38        9.70000                    556649.40
3777473.38       10.49388
         556669.40    3777473.38       11.36167                    556689.40
3777473.38       12.30158
         556709.40    3777473.38       13.28590                    556729.40
3777473.38       14.20288
         556749.40    3777473.38       14.81719                    556769.40
3777473.38       15.04841
         556789.40    3777473.38       14.77454                    556809.40
3777473.38       14.25041
         556829.40    3777473.38       13.73730                    556849.40
3777473.38       13.46119
         556869.40    3777473.38       13.48577                    556889.40
3777473.38       13.57518
         556909.40    3777473.38       13.69946                    556929.40
3777473.38       13.56064
         556949.40    3777473.38       13.08696                    556969.40
3777473.38       12.23200
         556989.40    3777473.38       11.10333                    557009.40
3777473.38        9.89474
         557029.40    3777473.38        8.75228                    557049.40
3777473.38        7.80438
         557069.40    3777473.38        7.09315                    557089.40
3777473.38        6.53606
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         557109.40    3777473.38        6.11315                      557129.40
3777473.38        5.74310
         557149.40    3777473.38        5.44331                      557169.40
3777473.38        5.13719
         557189.40    3777473.38        4.87504                      557209.40
3777473.38        4.63406
         557229.40    3777473.38        4.39824                      557249.40
3777473.38        4.19016
         557269.40    3777473.38        3.97838                      557289.40
3777473.38        3.78060
         557309.40    3777473.38        3.59893                      557329.40
3777473.38        3.42759
         557349.40    3777473.38        3.25985                      557369.40
3777473.38        3.10346
         557389.40    3777473.38        2.95157                      557409.40
3777473.38        2.81723
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557429.40    3777473.38        2.68273                      557449.40
3777473.38        2.56852
         557469.40    3777473.38        2.45025                      557489.40
3777473.38        2.33716
         556509.40    3777493.38        6.49226                      556529.40
3777493.38        6.69667
         556549.40    3777493.38        6.99257                      556569.40
3777493.38        7.36902
         556589.40    3777493.38        7.85427                      556609.40
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3777493.38        8.43054
         556629.40    3777493.38        9.05843                    556649.40
3777493.38        9.77217
         556669.40    3777493.38       10.58293                    556689.40
3777493.38       11.39343
         556709.40    3777493.38       12.17439                    556729.40
3777493.38       12.82633
         556749.40    3777493.38       13.08382                    556769.40
3777493.38       13.01917
         556789.40    3777493.38       12.58891                    556809.40
3777493.38       12.04935
         556829.40    3777493.38       11.67471                    556849.40
3777493.38       11.48075
         556869.40    3777493.38       11.52093                    556889.40
3777493.38       11.59343
         556909.40    3777493.38       11.66154                    556929.40
3777493.38       11.55637
         556949.40    3777493.38       11.23755                    556969.40
3777493.38       10.63121
         556989.40    3777493.38        9.83714                    557009.40
3777493.38        8.91622
         557029.40    3777493.38        7.96741                    557049.40
3777493.38        7.12586
         557069.40    3777493.38        6.45608                    557089.40
3777493.38        5.92080
         557109.40    3777493.38        5.53023                    557129.40
3777493.38        5.19440
         557149.40    3777493.38        4.92163                    557169.40
3777493.38        4.67284
         557189.40    3777493.38        4.43843                    557209.40
3777493.38        4.24206
         557229.40    3777493.38        4.04415                    557249.40
3777493.38        3.86346
         557269.40    3777493.38        3.69460                    557289.40
3777493.38        3.53051
         557309.40    3777493.38        3.37100                    557329.40
3777493.38        3.22373
         557349.40    3777493.38        3.08425                    557369.40
3777493.38        2.94850
         557389.40    3777493.38        2.82258                    557409.40
3777493.38        2.70137
         557429.40    3777493.38        2.57315                    557449.40
3777493.38        2.46687
         557469.40    3777493.38        2.36795                    557489.40
3777493.38        2.26676
         556509.40    3777513.38        6.03800                    556529.40
3777513.38        6.25768
         556549.40    3777513.38        6.55509                    556569.40
3777513.38        6.97714
         556589.40    3777513.38        7.43257                    556609.40
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3777513.38        7.93177
         556629.40    3777513.38        8.54119                      556649.40
3777513.38        9.18510
         556669.40    3777513.38        9.86928                      556689.40
3777513.38       10.50967
         556709.40    3777513.38       11.08778                      556729.40
3777513.38       11.48200
         556749.40    3777513.38       11.50128                      556769.40
3777513.38       11.28412
         556789.40    3777513.38       10.84118                      556809.40
3777513.38       10.36785
         556829.40    3777513.38       10.09386                      556849.40
3777513.38        9.97084
         556869.40    3777513.38       10.00288                      556889.40
3777513.38       10.05767
         556909.40    3777513.38       10.05641                      556929.40
3777513.38        9.99499
         556949.40    3777513.38        9.77209                      556969.40
3777513.38        9.33935
         556989.40    3777513.38        8.74326                      557009.40
3777513.38        8.04869
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557029.40    3777513.38        7.28036                      557049.40
3777513.38        6.56453
         557069.40    3777513.38        5.93539                      557089.40
3777513.38        5.43179
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         557109.40    3777513.38        5.04538                    557129.40
3777513.38        4.73715
         557149.40    3777513.38        4.48890                    557169.40
3777513.38        4.26941
         557189.40    3777513.38        4.06460                    557209.40
3777513.38        3.89662
         557229.40    3777513.38        3.72200                    557249.40
3777513.38        3.57543
         557269.40    3777513.38        3.42737                    557289.40
3777513.38        3.28592
         557309.40    3777513.38        3.15690                    557329.40
3777513.38        3.03149
         557349.40    3777513.38        2.90886                    557369.40
3777513.38        2.78983
         557389.40    3777513.38        2.68045                    557409.40
3777513.38        2.57637
         557429.40    3777513.38        2.46846                    557449.40
3777513.38        2.36855
         557469.40    3777513.38        2.27550                    557489.40
3777513.38        2.18731
         556509.40    3777533.38        5.65592                    556529.40
3777533.38        5.89792
         556549.40    3777533.38        6.20452                    556569.40
3777533.38        6.57614
         556589.40    3777533.38        6.99805                    556609.40
3777533.38        7.47716
         556629.40    3777533.38        8.01173                    556649.40
3777533.38        8.58071
         556669.40    3777533.38        9.12096                    556689.40
3777533.38        9.63068
         556709.40    3777533.38       10.03411                    556729.40
3777533.38       10.20426
         556749.40    3777533.38       10.08656                    556769.40
3777533.38        9.78868
         556789.40    3777533.38        9.42006                    556809.40
3777533.38        9.06119
         556829.40    3777533.38        8.88577                    556849.40
3777533.38        8.78591
         556869.40    3777533.38        8.79394                    556889.40
3777533.38        8.82885
         556909.40    3777533.38        8.81826                    556929.40
3777533.38        8.74723
         556949.40    3777533.38        8.57362                    556969.40
3777533.38        8.24904
         556989.40    3777533.38        7.80938                    557009.40
3777533.38        7.27798
         557029.40    3777533.38        6.66809                    557049.40
3777533.38        6.06318
         557069.40    3777533.38        5.50759                    557089.40
3777533.38        5.03520
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         557109.40    3777533.38        4.65840                      557129.40
3777533.38        4.36679
         557149.40    3777533.38        4.13133                      557169.40
3777533.38        3.92158
         557189.40    3777533.38        3.74020                      557209.40
3777533.38        3.59198
         557229.40    3777533.38        3.43352                      557249.40
3777533.38        3.30709
         557269.40    3777533.38        3.17845                      557289.40
3777533.38        3.06062
         557309.40    3777533.38        2.94855                      557329.40
3777533.38        2.84106
         557349.40    3777533.38        2.73823                      557369.40
3777533.38        2.63568
         557389.40    3777533.38        2.53356                      557409.40
3777533.38        2.44562
         557429.40    3777533.38        2.35493                      557449.40
3777533.38        2.26964
         557469.40    3777533.38        2.18190                      557489.40
3777533.38        2.09946
         556509.40    3777553.38        5.33846                      556529.40
3777553.38        5.58369
         556549.40    3777553.38        5.87820                      556569.40
3777553.38        6.23531
         556589.40    3777553.38        6.63622                      556609.40
3777553.38        7.06024
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777553.38        7.53209                    556649.40
3777553.38        8.01929
         556669.40    3777553.38        8.42056                    556689.40
3777553.38        8.77214
         556709.40    3777553.38        9.01121                    556729.40
3777553.38        9.02831
         556749.40    3777553.38        8.80510                    556769.40
3777553.38        8.52359
         556789.40    3777553.38        8.25355                    556809.40
3777553.38        8.01779
         556829.40    3777553.38        7.89988                    556849.40
3777553.38        7.83582
         556869.40    3777553.38        7.82858                    556889.40
3777553.38        7.83628
         556909.40    3777553.38        7.82256                    556929.40
3777553.38        7.77437
         556949.40    3777553.38        7.58620                    556969.40
3777553.38        7.34902
         556989.40    3777553.38        6.99648                    557009.40
3777553.38        6.58893
         557029.40    3777553.38        6.10118                    557049.40
3777553.38        5.60650
         557069.40    3777553.38        5.12563                    557089.40
3777553.38        4.69280
         557109.40    3777553.38        4.32862                    557129.40
3777553.38        4.04556
         557149.40    3777553.38        3.81820                    557169.40
3777553.38        3.62465
         557189.40    3777553.38        3.45929                    557209.40
3777553.38        3.31559
         557229.40    3777553.38        3.18131                    557249.40
3777553.38        3.06002
         557269.40    3777553.38        2.95031                    557289.40
3777553.38        2.84857
         557309.40    3777553.38        2.75123                    557329.40
3777553.38        2.65807
         557349.40    3777553.38        2.57110                    557369.40
3777553.38        2.48564
         557389.40    3777553.38        2.39710                    557409.40
3777553.38        2.31731
         557429.40    3777553.38        2.23863                    557449.40
3777553.38        2.16414
         557469.40    3777553.38        2.08936                    557489.40
3777553.38        2.01201
         557438.91    3777336.71        2.93822                    556615.91
3777136.99       27.34813
         556586.37    3777056.16        7.53924                    556672.35
3776929.14        5.39756
         556692.35    3776929.14        6.28673                    556712.35
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3776929.14        7.33757
         556732.35    3776929.14        8.33580                      556752.35
3776929.14        9.06769
         556772.35    3776929.14        9.19075                      556792.35
3776929.14        8.76043
         556812.35    3776929.14        7.99180                      556832.35
3776929.14        7.00961
         556852.35    3776929.14        6.17358                      556672.35
3776949.14        6.17616
         556692.35    3776949.14        7.29011                      556712.35
3776949.14        8.54845
         556732.35    3776949.14        9.65126                      556752.35
3776949.14       10.22805
         556772.35    3776949.14       10.09759                      556792.35
3776949.14        9.34789
         556812.35    3776949.14        8.25191                      556832.35
3776949.14        7.10725
         556852.35    3776949.14        6.25560                      556672.35
3776969.14        7.16133
         556692.35    3776969.14        8.57838                      556712.35
3776969.14       10.10859
         556732.35    3776969.14       11.27303                      556752.35
3776969.14       11.60396
         556772.35    3776969.14       11.00530                      556792.35
3776969.14        9.79653
         556812.35    3776969.14        8.40092                      556832.35
3776969.14        7.20569
         556852.35    3776969.14        6.40215                      556672.35
3776989.14        8.44001
         556692.35    3776989.14       10.26606                      556712.35
3776989.14       12.09544
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556732.35	3776989.14	13.19277	556752.35	3776989.14	13.05645
556772.35	3776989.14	11.81756	556792.35	3776989.14	10.12144
556812.35	3776989.14	8.50312	556832.35	3776989.14	7.33347
556852.35	3776989.14	6.66154	556672.35	3777009.14	10.12924
556692.35	3777009.14	12.52391	556712.35	3777009.14	14.63461
556732.35	3777009.14	15.40430	556752.35	3777009.14	14.48551
556772.35	3777009.14	12.46691	556792.35	3777009.14	10.32742
556812.35	3777009.14	8.62979	556832.35	3777009.14	7.56980
556852.35	3777009.14	7.07442	556672.35	3777029.14	12.48500
556692.35	3777029.14	15.61421	556712.35	3777029.14	17.86550
556732.35	3777029.14	17.83513	556752.35	3777029.14	15.76048
556772.35	3777029.14	12.92367	556792.35	3777029.14	10.50512
556812.35	3777029.14	8.88805	556832.35	3777029.14	8.01834
556852.35	3777029.14	7.66188	556672.35	3777049.14	15.92080
556692.35	3777049.14	19.95497	556712.35	3777049.14	21.86905
556732.35	3777049.14	20.32803	556752.35	3777049.14	16.77614
556772.35	3777049.14	13.26454	556792.35	3777049.14	10.81008
556812.35	3777049.14	9.41171	556832.35	3777049.14	8.70848
556852.35	3777049.14	8.43442	556927.54	3776959.53	7.01898
556947.54	3776959.53	7.75170	556967.54	3776959.53	8.24769
556987.54	3776959.53	8.94010	557007.54	3776959.53	9.65932
557027.54	3776959.53	10.10644	557047.54	3776959.53	10.13425

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         557067.54    3776959.53        9.71258                       557087.54
3776959.53        8.92197
         556927.54    3776979.53        7.80994                       556947.54
3776979.53        8.59572
         556967.54    3776979.53        9.35232                       556987.54
3776979.53       10.14867
         557007.54    3776979.53       10.85839                       557027.54
3776979.53       11.17471
         557047.54    3776979.53       10.96412                       557067.54
3776979.53       10.25041
         557087.54    3776979.53        9.19166                       556927.54
3776999.53        8.78981
         556947.54    3776999.53        9.56791                       556967.54
3776999.53       10.51582
         556987.54    3776999.53       11.54497                       557007.54
3776999.53       12.21016
         557027.54    3776999.53       12.30604                       557047.54
3776999.53       11.76957
         557067.54    3776999.53       10.71351                       557087.54
3776999.53        9.37812
         556927.54    3777019.53        9.98705                       556947.54
3777019.53       10.98311
         556967.54    3777019.53       12.09385                       556987.54
3777019.53       13.17849
         557007.54    3777019.53       13.69974                       557027.54
3777019.53       13.46445
         557047.54    3777019.53       12.51302                       557067.54
3777019.53       11.07719
         557087.54    3777019.53        9.48743                       556927.54
3777039.53       11.46438
         556947.54    3777039.53       12.71920                       556967.54
3777039.53       14.00851
         556987.54    3777039.53       15.06656                       557007.54
3777039.53       15.30925
         557027.54    3777039.53       14.61019                       557047.54
3777039.53       13.37349
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557067.54	3777039.53	11.33835	557087.54	3777039.53	9.54528
557047.54	3777059.53	13.45857	557067.54	3777059.53	11.29367
557087.54	3777059.53	9.39913	556919.02	3777174.93	44.60347
556939.02	3777174.93	47.12569	556919.02	3777194.93	60.47526
556939.02	3777194.93	59.86958	556919.02	3777214.93	85.02547
556939.02	3777214.93	78.32918	556919.02	3777234.93	123.08605
556939.02	3777234.93	108.57874	556919.02	3777254.93	200.67294
556939.02	3777254.93	164.88589	557023.57	3777171.57	19.96073
557043.57	3777171.57	15.93331	557063.57	3777171.57	13.44425
557083.57	3777171.57	11.69868	557023.57	3777191.57	21.34129
557043.57	3777191.57	17.39112	557063.57	3777191.57	14.76270
557083.57	3777191.57	12.74992	557023.57	3777211.57	23.57493
557043.57	3777211.57	19.29617	557063.57	3777211.57	16.18528
557083.57	3777211.57	13.79496	557023.57	3777231.57	26.59869
557043.57	3777231.57	21.35178	557063.57	3777231.57	17.53825
557083.57	3777231.57	14.75240	557023.57	3777251.57	29.92861
557043.57	3777251.57	23.37152	557063.57	3777251.57	18.82908
557083.57	3777251.57	15.58409	556249.05	3776972.85	1.41589
556269.05	3776972.85	1.36519	556229.05	3776992.85	1.44654
556249.05	3776992.85	1.51636	556269.05		

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3776992.85        1.54870
         556289.05    3776992.85        1.63183                        556309.05
3776992.85        1.57558
         556329.05    3776992.85        1.62813                        556209.05
3777012.85        1.42922
         556229.05    3777012.85        1.48819                        556249.05
3777012.85        1.57105
         556269.05    3777012.85        1.66660                        556289.05
3777012.85        1.77122
         556309.05    3777012.85        1.80788                        556329.05
3777012.85        1.92491
         556209.05    3777032.85        1.46629                        556229.05
3777032.85        1.54307
         556249.05    3777032.85        1.63197                        556269.05
3777032.85        1.73153
         556289.05    3777032.85        1.84779                        556309.05
3777032.85        1.96896
         556209.05    3777052.85        1.52393                        556229.05
3777052.85        1.60334
         556249.05    3777052.85        1.70294                        556269.05
3777052.85        1.80820
         556289.05    3777052.85        1.92747                        556309.05
3777052.85        2.06192
         556249.05    3777072.85        1.77615                        556269.05
3777072.85        1.89279
         556289.05    3777072.85        2.01915                        556269.05
3777092.85        1.98684
         556441.69    3776927.49        1.48354                        556461.69
3776927.49        1.58029
         556481.69    3776927.49        1.64828                        556421.69
3776947.49        1.55538
         556441.69    3776947.49        1.61127                        556461.69
3776947.49        1.72506
         556481.69    3776947.49        1.81043                        556401.69
3776967.49        1.62684
         556421.69    3776967.49        1.70604                        556441.69
3776967.49        1.76272
         556461.69    3776967.49        1.86092                        556481.69
3776967.49        2.00688
         556401.69    3776987.49        1.79194                        556421.69
3776987.49        1.85227
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000120 , L0000121 , L0000122 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556441.69	3776987.49	1.95728	556461.69	3776987.49	2.07379
556481.69	3776987.49	2.24246	556421.69	3777007.49	2.04356
556441.69	3777007.49	2.12795	556461.69	3777007.49	2.26348
556481.69	3777007.49	2.47407	556441.69	3777027.49	2.36935
556461.69	3777027.49	2.48211	556481.69	3777027.49	2.71421
556251.24	3777154.95	2.25365	556261.28	3777141.20	2.23981
556264.98	3777168.16	2.45749	556279.25	3777151.77	2.46366
556202.60	3777113.45	1.72929	556220.05	3777109.75	1.80204
556187.53	3777090.19	1.57628	556164.27	3777121.38	1.60308
557510.26	3776508.23	1.47228	557530.26	3776508.23	1.42457
557550.26	3776508.23	1.38467	557570.26	3776508.23	1.34990
557590.26	3776508.23	1.31866	557610.26	3776508.23	1.28977
557630.26	3776508.23	1.26136	557650.26	3776508.23	1.23358
557670.26	3776508.23	1.20528	557690.26	3776508.23	1.17667
557510.26	3776528.23	1.49411	557530.26	3776528.23	1.44917
557550.26	3776528.23	1.41080	557570.26	3776528.23	1.37591
557590.26	3776528.23	1.34424	557610.26	3776528.23	1.31394

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         557630.26    3776528.23        1.28440                      557650.26
3776528.23        1.25518
         557670.26    3776528.23        1.22482                      557690.26
3776528.23        1.19504
         557510.26    3776548.23        1.51861                      557530.26
3776548.23        1.47614
         557550.26    3776548.23        1.43709                      557570.26
3776548.23        1.40152
         557590.26    3776548.23        1.36911                      557610.26
3776548.23        1.33718
         557630.26    3776548.23        1.30592                      557650.26
3776548.23        1.27520
         557670.26    3776548.23        1.24355                      557690.26
3776548.23        1.21258
         557510.26    3776568.23        1.54538                      557530.26
3776568.23        1.50372
         557550.26    3776568.23        1.46474                      557570.26
3776568.23        1.42757
         557590.26    3776568.23        1.39329                      557610.26
3776568.23        1.35951
         557630.26    3776568.23        1.32641                      557650.26
3776568.23        1.29436
         557670.26    3776568.23        1.26112                      557690.26
3776568.23        1.22827
         557510.26    3776588.23        1.57354                      557530.26
3776588.23        1.53248
         557550.26    3776588.23        1.49251                      557570.26
3776588.23        1.45306
         557590.26    3776588.23        1.41588                      557610.26
3776588.23        1.38021
         557630.26    3776588.23        1.34633                      557650.26
3776588.23        1.31229
         557670.26    3776588.23        1.27810                      557690.26
3776588.23        1.24440
         557510.26    3776608.23        1.60241                      557530.26
3776608.23        1.56091
         557550.26    3776608.23        1.51909                      557570.26
3776608.23        1.47828
         557590.26    3776608.23        1.43817                      557610.26
3776608.23        1.40051
         557630.26    3776608.23        1.36482                      557650.26
3776608.23        1.32888
         557670.26    3776608.23        1.29292                      557690.26
3776608.23        1.25759
         557510.26    3776628.23        1.63203                      557530.26
3776628.23        1.58862
 *** AERMOD - VERSION 24142  ***   ***
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08/25/25
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***

INCLUDING SOURCE(S): L0000083 , L0000084 , L0000085 , L0000086 , L0000087 , L0000120 , L0000121 , L0000122 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557550.26	3776628.23	1.54414	557570.26	3776628.23	1.50455
557590.26	3776628.23	1.45984	557610.26	3776628.23	1.42000
557630.26	3776628.23	1.38162	557650.26	3776628.23	1.34479
557670.26	3776628.23	1.30743	557690.26	3776628.23	1.27121
557510.26	3776648.23	1.66093	557530.26	3776648.23	1.61408
557550.26	3776648.23	1.56726	557570.26	3776648.23	1.52099
557590.26	3776648.23	1.47910	557610.26	3776648.23	1.43663
557630.26	3776648.23	1.39715	557650.26	3776648.23	1.35911
557670.26	3776648.23	1.32013	557690.26	3776648.23	1.28294
557510.26	3776668.23	1.68660	557530.26	3776668.23	1.63760
557550.26	3776668.23	1.58826	557570.26	3776668.23	1.47701
557590.26	3776668.23	1.43660	557610.26	3776668.23	1.39301
557630.26	3776668.23	1.35339	557650.26	3776668.23	1.31589
557670.26	3776668.23	1.33179	557690.26	3776668.23	1.29353
557510.26	3776688.23	1.60626	557530.26		

```
3776688.23        1.55975
         557550.26    3776688.23        1.51298                    557570.26
3776688.23        1.46788
         557590.26    3776688.23        1.42473                    557610.26
3776688.23        1.38201
         557630.26    3776688.23        1.34190                    557650.26
3776688.23        1.30390
         557670.26    3776688.23        1.26577                    557690.26
3776688.23        1.22852
         556172.49    3776517.81        0.34132                    556192.49
3776517.81        0.35332
         556212.49    3776517.81        0.35610                    556232.49
3776517.81        0.36312
         556252.49    3776517.81        0.37019                    556272.49
3776517.81        0.38187
         556292.49    3776517.81        0.39172                    556312.49
3776517.81        0.39873
         556332.49    3776517.81        0.40846                    556352.49
3776517.81        0.41181
         556372.49    3776517.81        0.40814                    556392.49
3776517.81        0.41806
         556412.49    3776517.81        0.42435                    556432.49
3776517.81        0.43117
         556452.49    3776517.81        0.43895                    556472.49
3776517.81        0.45957
         556492.49    3776517.81        0.47943                    556172.49
3776537.81        0.35082
         556192.49    3776537.81        0.35946                    556212.49
3776537.81        0.36901
         556232.49    3776537.81        0.37621                    556252.49
3776537.81        0.38378
         556272.49    3776537.81        0.39002                    556292.49
3776537.81        0.40552
         556312.49    3776537.81        0.41566                    556332.49
3776537.81        0.42697
         556352.49    3776537.81        0.43238                    556372.49
3776537.81        0.43146
         556392.49    3776537.81        0.42969                    556412.49
3776537.81        0.44032
         556432.49    3776537.81        0.45002                    556452.49
3776537.81        0.45674
         556472.49    3776537.81        0.47847                    556492.49
3776537.81        0.50123
         556332.49    3776557.81        0.44937                    556352.49
3776557.81        0.45017
         556372.49    3776557.81        0.45694                    556392.49
3776557.81        0.45699
         556412.49    3776557.81        0.46664                    556432.49
3776557.81        0.47269
         556452.49    3776557.81        0.47866                    556472.49
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: OFFSITE ***
INCLUDING SOURCE(S): L0000083 , L0000084 , L0000085 , L0000086 , L0000087 ,
L0000120 , L0000121 , L0000122 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556492.49	3776557.81	0.52364	556332.49	3776577.81	0.46588
556352.49	3776577.81	0.47669	556372.49	3776577.81	0.48263
556392.49	3776577.81	0.48876	556412.49	3776577.81	0.49568
556432.49	3776577.81	0.49778	556452.49	3776577.81	0.50677
556472.49	3776577.81	0.52496	556492.49	3776577.81	0.54788
556332.49	3776597.81	0.49151	556352.49	3776597.81	0.50196
556372.49	3776597.81	0.50899	556392.49	3776597.81	0.50951
556412.49	3776597.81	0.52241	556432.49	3776597.81	0.52500
556452.49	3776597.81	0.52767	556472.49	3776597.81	0.54352
556492.49	3776597.81	0.57355	556252.49	3776617.81	0.45618
556272.49	3776617.81	0.46695	556292.49	3776617.81	0.48132
556312.49	3776617.81	0.49891	556332.49	3776617.81	0.50677

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         556352.49    3776617.81        0.52794                    556372.49
3776617.81        0.54235
         556392.49    3776617.81        0.54634                    556412.49
3776617.81        0.55610
         556432.49    3776617.81        0.55605                    556452.49
3776617.81        0.56636
         556472.49    3776617.81        0.56954                    556492.49
3776617.81        0.60067
         556252.49    3776637.81        0.47358                    556272.49
3776637.81        0.49379
         556292.49    3776637.81        0.50266                    556312.49
3776637.81        0.51578
         556332.49    3776637.81        0.53815                    556352.49
3776637.81        0.55253
         556372.49    3776637.81        0.57232                    556392.49
3776637.81        0.57704
         556412.49    3776637.81        0.58565                    556432.49
3776637.81        0.59088
         556452.49    3776637.81        0.59523                    556472.49
3776637.81        0.60765
         556492.49    3776637.81        0.63008                    556252.49
3776657.81        0.49611
         556272.49    3776657.81        0.51466                    556292.49
3776657.81        0.53293
         556312.49    3776657.81        0.53506                    556332.49
3776657.81        0.56280
         556352.49    3776657.81        0.58437                    556372.49
3776657.81        0.60425
         556392.49    3776657.81        0.60723                    556412.49
3776657.81        0.61598
         556432.49    3776657.81        0.62245                    556452.49
3776657.81        0.63028
         556472.49    3776657.81        0.64105                    556492.49
3776657.81        0.66376
         556252.49    3776677.81        0.52005                    556272.49
3776677.81        0.52766
         556292.49    3776677.81        0.54573                    556312.49
3776677.81        0.56597
         556332.49    3776677.81        0.58860                    556352.49
3776677.81        0.61385
         556372.49    3776677.81        0.63278                    556392.49
3776677.81        0.64215
         556412.49    3776677.81        0.65887                    556432.49
3776677.81        0.65899
         556452.49    3776677.81        0.66557                    556472.49
3776677.81        0.68066
         556492.49    3776677.81        0.70225                    556252.49
3776697.81        0.54631
         556272.49    3776697.81        0.55437                    556372.49
3776697.81        0.66462
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         556392.49    3776697.81        0.67090                       556412.49
3776697.81        0.69149
         556432.49    3776697.81        0.69884                       556452.49
3776697.81        0.70311
         556472.49    3776697.81        0.71936                       556492.49
3776697.81        0.74379
 *** AERMOD - VERSION 24142  ***   ***
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08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                 L0000120    , L0000121    , L0000122    ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556252.49    3776717.81        0.56036                       556272.49
3776717.81        0.58060
         556372.49    3776717.81        0.69675                       556392.49
3776717.81        0.70360
         556412.49    3776717.81        0.73005                       556432.49
3776717.81        0.74138
         556452.49    3776717.81        0.74789                       556472.49
3776717.81        0.77729
         556492.49    3776717.81        0.78951                       556267.40
3776875.81        0.96303
         556239.03    3776853.02        0.84685                       556178.76
3776751.21        0.58378
         556154.45    3776774.51        0.60822                       556119.50
3776705.11        0.48358
         556146.51    3777267.93        2.19224                       556151.00
3777234.88        2.10406
         556144.93    3777179.58        1.83447                       556205.18
3777236.46        2.51480
         556218.00    3777200.04        2.35128                       556772.00
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         556521.71   3777341.57   7.81152   556539.90
3777344.94   8.53643
         556591.78   3777345.39   11.44109   556630.62
3777349.66   14.56620
         556684.29   3777349.43   21.25653   556905.58
3777351.19   25.22015
         556920.93   3777350.82   22.40978   556942.87
3777350.09   18.69505
         556996.26   3777348.26   13.26246   557096.81
3777357.77   8.37125
         557115.83   3777363.62   7.59100   557129.36
3777361.43   7.33388
         557230.65   3777363.99   5.25023   556466.22
3776816.07   0.95672
         556407.87   3776826.19   0.88132   556381.07
3776807.14   0.80859
         556404.29   3776771.52   0.75566   556465.21
3776739.51   0.79816
         556396.10   3776739.93   0.70138   556323.99
3777265.43   3.18803
         556330.60   3777233.99   3.07075   556321.08
3777200.43   2.76558
         556275.11   3777267.81   2.71305   556278.28
3777233.46   2.57719
         556509.40   3777373.38   7.11597   556529.40

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3777373.38        7.81492
         556549.40    3777373.38        8.63729                    556569.40
3777373.38        9.58867
         556589.40    3777373.38       10.73925                    556609.40
3777373.38       12.05876
         556629.40    3777373.38       13.64576                    556649.40
3777373.38       15.46990
         556669.40    3777373.38       17.61209                    556689.40
3777373.38       19.90451
         556709.40    3777373.38       21.83369                    556729.40
3777373.38       22.74934
         556749.40    3777373.38       22.47980                    556769.40
3777373.38       21.50475
         556789.40    3777373.38       21.14513                    556809.40
3777373.38       21.72381
         556829.40    3777373.38       22.57739                    556849.40
3777373.38       23.14421
         556869.40    3777373.38       23.17952                    556889.40
3777373.38       22.19784
         556909.40    3777373.38       20.28861                    556929.40
3777373.38       17.80133
         556949.40    3777373.38       15.31766                    556969.40
3777373.38       13.22389
         556989.40    3777373.38       11.62417                    557009.40
3777373.38       10.45654
         557029.40    3777373.38        9.61434                    557049.40
3777373.38        8.93583
         557069.40    3777373.38        8.33583                    557089.40
3777373.38        7.81267
         557109.40    3777373.38        7.33297                    557129.40
3777373.38        6.89005
         557149.40    3777373.38        6.47737                    557169.40
3777373.38        6.09760
         557189.40    3777373.38        5.75432                    557209.40
3777373.38        5.42829
         557229.40    3777373.38        5.11209                    557249.40
3777373.38        4.81216
         557269.40    3777373.38        4.52910                    557289.40
3777373.38        4.27650
         557309.40    3777373.38        4.04457                    557329.40
3777373.38        3.81469
         557349.40    3777373.38        3.61484                    557369.40
3777373.38        3.42184
         557389.40    3777373.38        3.24287                    557409.40
3777373.38        3.07662
         557429.40    3777373.38        2.91603                    557449.40
3777373.38        2.77409
         557469.40    3777373.38        2.63730                    557489.40
3777373.38        2.49987
         556509.40    3777393.38        6.94278                    556529.40
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3777393.38   7.60404
         556549.40   3777393.38   8.37665   556569.40
3777393.38   9.26224
         556589.40   3777393.38   10.34424   556609.40
3777393.38   11.57056

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE   ***
                                  INCLUDING SOURCE(S):   L0000025   , L0000026
,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
3777393.38        7.90547
         557069.40    3777393.38        7.39976                    557089.40
3777393.38        6.96575
         557109.40    3777393.38        6.58200                    557129.40
3777393.38        6.20297
         557149.40    3777393.38        5.87995                    557169.40
3777393.38        5.56057
         557189.40    3777393.38        5.26596                    557209.40
3777393.38        5.00621
         557229.40    3777393.38        4.75542                    557249.40
3777393.38        4.50155
         557269.40    3777393.38        4.26836                    557289.40
3777393.38        4.04522
         557309.40    3777393.38        3.82570                    557329.40
3777393.38        3.64042
         557349.40    3777393.38        3.45826                    557369.40
3777393.38        3.28901
         557389.40    3777393.38        3.12928                    557409.40
3777393.38        2.97323
         557429.40    3777393.38        2.82982                    557449.40
3777393.38        2.69902
         557469.40    3777393.38        2.56937                    557489.40
3777393.38        2.44188
         556509.40    3777413.38        6.76070                    556529.40
3777413.38        7.39958
         556549.40    3777413.38        8.14562                    556569.40
3777413.38        9.00416
         556589.40    3777413.38        9.98854                    556609.40
3777413.38       11.11123
         556629.40    3777413.38       12.39083                    556649.40
3777413.38       13.65678
         556669.40    3777413.38       14.86155                    556689.40
3777413.38       15.69050
         556709.40    3777413.38       15.90751                    556729.40
3777413.38       15.47727
         556749.40    3777413.38       14.82058                    556769.40
3777413.38       14.57672
         556789.40    3777413.38       14.71819                    556809.40
3777413.38       15.19837
         556829.40    3777413.38       15.62704                    556849.40
3777413.38       15.90220
         556869.40    3777413.38       16.02350                    556889.40
3777413.38       15.68969
         556909.40    3777413.38       14.90581                    556929.40
3777413.38       13.78741
         556949.40    3777413.38       12.24869                    556969.40
3777413.38       10.78562
         556989.40    3777413.38        9.49743                    557009.40
3777413.38        8.48414
         557029.40    3777413.38        7.68720                    557049.40
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3777413.38        7.09571
         557069.40    3777413.38        6.63305                       557089.40
3777413.38        6.24943
         557109.40    3777413.38        5.92466                       557129.40
3777413.38        5.59958
         557149.40    3777413.38        5.33923                       557169.40
3777413.38        5.06990
         557189.40    3777413.38        4.83066                       557209.40
3777413.38        4.61333
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                 INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557229.40    3777413.38        4.39439                       557249.40
3777413.38        4.18797
         557269.40    3777413.38        3.99381                       557289.40
3777413.38        3.80684
         557309.40    3777413.38        3.62728                       557329.40
3777413.38        3.45184
         557349.40    3777413.38        3.29976                       557369.40
3777413.38        3.14014
         557389.40    3777413.38        3.00186                       557409.40
3777413.38        2.86816
         557429.40    3777413.38        2.72888                       557449.40
3777413.38        2.60826
         557469.40    3777413.38        2.49707                       557489.40
3777413.38        2.38235
         556509.40    3777433.38        6.58673                       556529.40
3777433.38        7.19084
         556549.40    3777433.38        7.88115                       556569.40
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         556589.40    3777433.38        9.59490                    556609.40
3777433.38       10.61333
         556629.40    3777433.38       11.68140                    556649.40
3777433.38       12.66530
         556669.40    3777433.38       13.38559                    556689.40
3777433.38       13.71123
         556709.40    3777433.38       13.46540                    556729.40
3777433.38       12.95912
         556749.40    3777433.38       12.47256                    556769.40
3777433.38       12.44052
         556789.40    3777433.38       12.65209                    556809.40
3777433.38       13.00026
         556829.40    3777433.38       13.32732                    556849.40
3777433.38       13.51299
         556869.40    3777433.38       13.62664                    556889.40
3777433.38       13.44363
         556909.40    3777433.38       12.95125                    556929.40
3777433.38       12.11988
         556949.40    3777433.38       11.05303                    556969.40
3777433.38        9.84019
         556989.40    3777433.38        8.70764                    557009.40
3777433.38        7.80577
         557029.40    3777433.38        7.04889                    557049.40
3777433.38        6.47682
         557069.40    3777433.38        6.02131                    557089.40
3777433.38        5.65825
         557109.40    3777433.38        5.36329                    557129.40
3777433.38        5.08630
         557149.40    3777433.38        4.85641                    557169.40
3777433.38        4.62314
         557189.40    3777433.38        4.42588                    557209.40
3777433.38        4.24166
         557229.40    3777433.38        4.05062                    557249.40
3777433.38        3.88833
         557269.40    3777433.38        3.72317                    557289.40
3777433.38        3.55918
         557309.40    3777433.38        3.41643                    557329.40
3777433.38        3.26458
         557349.40    3777433.38        3.11223                    557369.40
3777433.38        2.98146
         557389.40    3777433.38        2.87073                    557409.40
3777433.38        2.75368
         557429.40    3777433.38        2.62454                    557449.40
3777433.38        2.51539
         557469.40    3777433.38        2.41015                    557489.40
3777433.38        2.30996
         556509.40    3777453.38        6.40675                    556529.40
3777453.38        6.97885
         556549.40    3777453.38        7.64008                    556569.40
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3777453.38        8.36348
         556589.40    3777453.38        9.19593                        556609.40
3777453.38       10.05335
         556629.40    3777453.38       10.91727                        556649.40
3777453.38       11.56935
         556669.40    3777453.38       11.87853                        556689.40
3777453.38       11.80904
         556709.40    3777453.38       11.39208                        556729.40
3777453.38       10.97001
         556749.40    3777453.38       10.73024                        556769.40
3777453.38       10.78085
         556789.40    3777453.38       11.00421                        556809.40
3777453.38       11.27762
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556829.40    3777453.38       11.56154                        556849.40
3777453.38       11.72674
         556869.40    3777453.38       11.83534                        556889.40
3777453.38       11.65899
         556909.40    3777453.38       11.33699                        556929.40
3777453.38       10.69995
         556949.40    3777453.38        9.92297                        556969.40
3777453.38        8.99792
         556989.40    3777453.38        8.04991                        557009.40
3777453.38        7.19514
         557029.40    3777453.38        6.49364                        557049.40
3777453.38        5.94023
         557069.40    3777453.38        5.51637                        557089.40
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3777453.38        5.17274
         557109.40    3777453.38        4.89608                    557129.40
3777453.38        4.64908
         557149.40    3777453.38        4.44204                    557169.40
3777453.38        4.23112
         557189.40    3777453.38        4.05807                    557209.40
3777453.38        3.90315
         557229.40    3777453.38        3.74050                    557249.40
3777453.38        3.60412
         557269.40    3777453.38        3.46192                    557289.40
3777453.38        3.32526
         557309.40    3777453.38        3.20146                    557329.40
3777453.38        3.07583
         557349.40    3777453.38        2.95665                    557369.40
3777453.38        2.83012
         557389.40    3777453.38        2.72141                    557409.40
3777453.38        2.62595
         557429.40    3777453.38        2.52229                    557449.40
3777453.38        2.42290
         557469.40    3777453.38        2.32511                    557489.40
3777453.38        2.22900
         556509.40    3777473.38        6.22734                    556529.40
3777473.38        6.74726
         556549.40    3777473.38        7.35130                    556569.40
3777473.38        8.04959
         556589.40    3777473.38        8.75195                    556609.40
3777473.38        9.43883
         556629.40    3777473.38       10.02810                    556649.40
3777473.38       10.39402
         556669.40    3777473.38       10.40550                    556689.40
3777473.38       10.12414
         556709.40    3777473.38        9.73665                    556729.40
3777473.38        9.44703
         556749.40    3777473.38        9.33647                    556769.40
3777473.38        9.46464
         556789.40    3777473.38        9.65894                    556809.40
3777473.38        9.88445
         556829.40    3777473.38       10.09709                    556849.40
3777473.38       10.27128
         556869.40    3777473.38       10.36590                    556889.40
3777473.38       10.23535
         556909.40    3777473.38       10.01365                    556929.40
3777473.38        9.58422
         556949.40    3777473.38        8.99067                    556969.40
3777473.38        8.26158
         556989.40    3777473.38        7.48061                    557009.40
3777473.38        6.73860
         557029.40    3777473.38        6.07650                    557049.40
3777473.38        5.53131
         557069.40    3777473.38        5.11318                    557089.40
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3777473.38        4.77193
         557109.40    3777473.38        4.50685                       557129.40
3777473.38        4.27217
         557149.40    3777473.38        4.08633                       557169.40
3777473.38        3.89679
         557189.40    3777473.38        3.73969                       557209.40
3777473.38        3.59834
         557229.40    3777473.38        3.46029                       557249.40
3777473.38        3.34162
         557269.40    3777473.38        3.21784                       557289.40
3777473.38        3.10168
         557309.40    3777473.38        2.99452                       557329.40
3777473.38        2.89158
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3777473.38        2.68728
         557389.40    3777473.38        2.58666                       557409.40
3777473.38        2.49697
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557429.40    3777473.38        2.40280                       557449.40
3777473.38        2.32321
         557469.40    3777473.38        2.23615                       557489.40
3777473.38        2.15048
         556509.40    3777493.38        6.04853                       556529.40
3777493.38        6.56571
         556549.40    3777493.38        7.11822                       556569.40
3777493.38        7.65927
         556589.40    3777493.38        8.23410                       556609.40
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3777493.38        9.19766
         556669.40    3777493.38        9.07994                   556689.40
3777493.38        8.74948
         556709.40    3777493.38        8.42852                   556729.40
3777493.38        8.27717
         556749.40    3777493.38        8.25157                   556769.40
3777493.38        8.39957
         556789.40    3777493.38        8.56259                   556809.40
3777493.38        8.72401
         556829.40    3777493.38        8.91719                   556849.40
3777493.38        9.04673
         556869.40    3777493.38        9.13693                   556889.40
3777493.38        9.06996
         556909.40    3777493.38        8.91081                   556929.40
3777493.38        8.59339
         556949.40    3777493.38        8.15038                   556969.40
3777493.38        7.57432
         556989.40    3777493.38        6.95298                   557009.40
3777493.38        6.32081
         557029.40    3777493.38        5.71699                   557049.40
3777493.38        5.19707
         557069.40    3777493.38        4.78206                   557089.40
3777493.38        4.44043
         557109.40    3777493.38        4.18507                   557129.40
3777493.38        3.95972
         557149.40    3777493.38        3.77700                   557169.40
3777493.38        3.61162
         557189.40    3777493.38        3.45777                   557209.40
3777493.38        3.33311
         557229.40    3777493.38        3.20815                   557249.40
3777493.38        3.09648
         557269.40    3777493.38        2.99367                   557289.40
3777493.38        2.89374
         557309.40    3777493.38        2.79589                   557329.40
3777493.38        2.70579
         557349.40    3777493.38        2.61959                   557369.40
3777493.38        2.53364
         557389.40    3777493.38        2.45295                   557409.40
3777493.38        2.37316
         557429.40    3777493.38        2.28376                   557449.40
3777493.38        2.21070
         557469.40    3777493.38        2.14141                   557489.40
3777493.38        2.06719
         556509.40    3777513.38        5.86792                   556529.40
3777513.38        6.33262
         556549.40    3777513.38        6.80460                   556569.40
3777513.38        7.35223
         556589.40    3777513.38        7.78794                   556609.40
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3777513.38        8.07766
         556629.40    3777513.38        8.26038                      556649.40
3777513.38        8.18660
         556669.40    3777513.38        7.94330                      556689.40
3777513.38        7.61556
         556709.40    3777513.38        7.39580                      556729.40
3777513.38        7.34142
         556749.40    3777513.38        7.38045                      556769.40
3777513.38        7.53159
         556789.40    3777513.38        7.67097                      556809.40
3777513.38        7.78157
         556829.40    3777513.38        7.92991                      556849.40
3777513.38        8.03616
         556869.40    3777513.38        8.11694                      556889.40
3777513.38        8.09573
         556909.40    3777513.38        7.95554                      556929.40
3777513.38        7.74094
         556949.40    3777513.38        7.41024                      556969.40
3777513.38        6.96219
         556989.40    3777513.38        6.45028                      557009.40
3777513.38        5.92325
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557029.40    3777513.38        5.38914                      557049.40
3777513.38        4.91408
         557069.40    3777513.38        4.50171                      557089.40
3777513.38        4.16788
         557109.40    3777513.38        3.90586                      557129.40
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3777513.38        3.69163
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3777513.38        3.10418
         557229.40    3777513.38        2.98537                    557249.40
3777513.38        2.88892
         557269.40    3777513.38        2.79204                    557289.40
3777513.38        2.70061
         557309.40    3777513.38        2.61892                    557329.40
3777513.38        2.53966
         557349.40    3777513.38        2.46167                    557369.40
3777513.38        2.38520
         557389.40    3777513.38        2.31507                    557409.40
3777513.38        2.24752
         557429.40    3777513.38        2.17440                    557449.40
3777513.38        2.10594
         557469.40    3777513.38        2.04124                    557489.40
3777513.38        1.97868
         556509.40    3777533.38        5.68243                    556529.40
3777533.38        6.11061
         556549.40    3777533.38        6.52513                    556569.40
3777533.38        6.90794
         556589.40    3777533.38        7.20166                    556609.40
3777533.38        7.36821
         556629.40    3777533.38        7.36970                    556649.40
3777533.38        7.20549
         556669.40    3777533.38        6.92391                    556689.40
3777533.38        6.68655
         556709.40    3777533.38        6.57262                    556729.40
3777533.38        6.57784
         556749.40    3777533.38        6.65628                    556769.40
3777533.38        6.78218
         556789.40    3777533.38        6.91152                    556809.40
3777533.38        6.99858
         556829.40    3777533.38        7.12567                    556849.40
3777533.38        7.19533
         556869.40    3777533.38        7.25785                    556889.40
3777533.38        7.26310
         556909.40    3777533.38        7.17025                    556929.40
3777533.38        6.99848
         556949.40    3777533.38        6.74298                    556969.40
3777533.38        6.39015
         556989.40    3777533.38        5.98234                    557009.40
3777533.38        5.54352
         557029.40    3777533.38        5.08359                    557049.40
3777533.38        4.65248
         557069.40    3777533.38        4.26762                    557089.40
3777533.38        3.94136
         557109.40    3777533.38        3.67760                    557129.40
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3777533.38        3.46951
         557149.40    3777533.38        3.29839                        557169.40
3777533.38        3.14388
         557189.40    3777533.38        3.01054                        557209.40
3777533.38        2.90326
         557229.40    3777533.38        2.78861                        557249.40
3777533.38        2.69976
         557269.40    3777533.38        2.61002                        557289.40
3777533.38        2.52953
         557309.40    3777533.38        2.45422                        557329.40
3777533.38        2.38293
         557349.40    3777533.38        2.31547                        557369.40
3777533.38        2.24790
         557389.40    3777533.38        2.17992                        557409.40
3777533.38        2.12290
         557429.40    3777533.38        2.06234                        557449.40
3777533.38        2.00499
         557469.40    3777533.38        1.94387                        557489.40
3777533.38        1.88572
         556509.40    3777553.38        5.50096                        556529.40
3777553.38        5.86631
         556549.40    3777553.38        6.19098                        556569.40
3777553.38        6.47480
         556589.40    3777553.38        6.65437                        556609.40
3777553.38        6.67299
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777553.38        6.57077                        556649.40
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3777553.38        6.37037
         556669.40    3777553.38        6.10501                   556689.40
3777553.38        5.93573
         556709.40    3777553.38        5.89610                   556729.40
3777553.38        5.94198
         556749.40    3777553.38        6.01394                   556769.40
3777553.38        6.12722
         556789.40    3777553.38        6.24679                   556809.40
3777553.38        6.33081
         556829.40    3777553.38        6.42769                   556849.40
3777553.38        6.49312
         556869.40    3777553.38        6.54581                   556889.40
3777553.38        6.55548
         556909.40    3777553.38        6.49905                   556929.40
3777553.38        6.38469
         556949.40    3777553.38        6.14643                   556969.40
3777553.38        5.87890
         556989.40    3777553.38        5.53859                   557009.40
3777553.38        5.17802
         557029.40    3777553.38        4.78311                   557049.40
3777553.38        4.40552
         557069.40    3777553.38        4.05286                   557089.40
3777553.38        3.74052
         557109.40    3777553.38        3.47689                   557129.40
3777553.38        3.26951
         557149.40    3777553.38        3.10005                   557169.40
3777553.38        2.95352
         557189.40    3777553.38        2.82765                   557209.40
3777553.38        2.71859
         557229.40    3777553.38        2.61727                   557249.40
3777553.38        2.52679
         557269.40    3777553.38        2.44614                   557289.40
3777553.38        2.37256
         557309.40    3777553.38        2.30324                   557329.40
3777553.38        2.23795
         557349.40    3777553.38        2.17824                   557369.40
3777553.38        2.12012
         557389.40    3777553.38        2.05948                   557409.40
3777553.38        2.00591
         557429.40    3777553.38        1.95281                   557449.40
3777553.38        1.90259
         557469.40    3777553.38        1.85119                   557489.40
3777553.38        1.79640
         557438.91    3777336.71        2.96102                   556615.91
3777136.99        8.43464
         556586.37    3777056.16        5.19294                   556672.35
3776929.14        4.31512
         556692.35    3776929.14        4.61365                   556712.35
3776929.14        4.91765
         556732.35    3776929.14        5.22507                   556752.35
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3776929.14        5.58651
         556772.35    3776929.14        5.98936                        556792.35
3776929.14        6.50251
         556812.35    3776929.14        7.19373                        556832.35
3776929.14        8.04957
         556852.35    3776929.14        9.28243                        556672.35
3776949.14        4.68370
         556692.35    3776949.14        5.05096                        556712.35
3776949.14        5.42044
         556732.35    3776949.14        5.79260                        556752.35
3776949.14        6.19107
         556772.35    3776949.14        6.68039                        556792.35
3776949.14        7.31869
         556812.35    3776949.14        8.13351                        556832.35
3776949.14        9.17249
         556852.35    3776949.14       10.69794                        556672.35
3776969.14        5.08637
         556692.35    3776969.14        5.53807                        556712.35
3776969.14        6.00489
         556732.35    3776969.14        6.47295                        556752.35
3776969.14        6.95763
         556772.35    3776969.14        7.52965                        556792.35
3776969.14        8.28309
         556812.35    3776969.14        9.25546                        556832.35
3776969.14       10.57024
         556852.35    3776969.14       12.48784                        556672.35
3776989.14        5.52955
         556692.35    3776989.14        6.07838                        556712.35
3776989.14        6.66897
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
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Y-COORD (M)        CONC
 - - -
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3776979.53       26.21968
         556967.54    3776979.53       23.51461                       556987.54
3776979.53       19.36618
         557007.54    3776979.53       15.20578                       557027.54
3776979.53       11.91675
         557047.54    3776979.53        9.67195                       557067.54
3776979.53        8.24549
         557087.54    3776979.53        7.32860                       556927.54
3776999.53       31.01452
         556947.54    3776999.53       29.26907                       556967.54
3776999.53       24.71130
         556987.54    3776999.53       19.36811                       557007.54
3776999.53       14.87600
         557027.54    3776999.53       11.77208                       557047.54
3776999.53        9.83106
         557067.54    3776999.53        8.62090                       557087.54
3776999.53        7.79898
         556927.54    3777019.53       36.27878                       556947.54
3777019.53       31.98317
         556967.54    3777019.53       25.29666                       556987.54
3777019.53       19.08149
         557007.54    3777019.53       14.66916                       557027.54
3777019.53       11.94990
         557047.54    3777019.53       10.30877                       557067.54
3777019.53        9.22594
         557087.54    3777019.53        8.40628                       556927.54
3777039.53       41.74486
         556947.54    3777039.53       33.93820                       556967.54
3777039.53       25.29181
         556987.54    3777039.53       18.82473                       557007.54
3777039.53       14.87322
         557027.54    3777039.53       12.57468                       557047.54
3777039.53       11.10759
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:21:34

                                PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE    ***
                                 INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557067.54	3777039.53	10.01442	557087.54	3777039.53	9.10234
557047.54	3777059.53	12.15684	557067.54	3777059.53	10.91321
557087.54	3777059.53	9.83237	556919.02	3777174.93	100.37006
556939.02	3777174.93	68.42927	556919.02	3777194.93	118.62959
556939.02	3777194.93	76.90049	556919.02	3777214.93	116.37450
556939.02	3777214.93	78.63230	556919.02	3777234.93	94.45142
556939.02	3777234.93	69.46713	556919.02	3777254.93	66.84968
556939.02	3777254.93	53.88970	557023.57	3777171.57	22.52240
557043.57	3777171.57	18.72130	557063.57	3777171.57	15.81542
557083.57	3777171.57	13.57058	557023.57	3777191.57	23.97396
557043.57	3777191.57	19.78316	557063.57	3777191.57	16.61529
557083.57	3777191.57	14.21581	557023.57	3777211.57	25.12643
557043.57	3777211.57	20.72869	557063.57	3777211.57	17.41315
557083.57	3777211.57	14.73198	557023.57	3777231.57	25.31563
557043.57	3777231.57	21.04657	557063.57	3777231.57	17.77455
557083.57	3777231.57	14.92159	557023.57	3777251.57	24.06991
557043.57	3777251.57	20.35048	557063.57	3777251.57	17.42642
557083.57	3777251.57	14.60930	556249.05	3776972.85	1.15996
556269.05	3776972.85	1.20426	556229.05	3776992.85	1.16750
556249.05	3776992.85	1.19682	556269.05	3776992.85	1.25273
556289.05	3776992.85	1.30402	556309.05	3776992.85	1.36407
556329.05	3776992.85	1.41147	556209.05		

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3777012.85        1.39276
         556229.05    3777012.85        1.19842                      556249.05
3777012.85        1.24500
         556269.05    3777012.85        1.30353                      556289.05
3777012.85        1.36695
         556309.05    3777012.85        1.42236                      556329.05
3777012.85        1.49782
         556209.05    3777032.85        1.43384                      556229.05
3777032.85        1.37449
         556249.05    3777032.85        1.30127                      556269.05
3777032.85        1.35985
         556289.05    3777032.85        1.43373                      556309.05
3777032.85        1.50027
         556209.05    3777052.85        1.48405                      556229.05
3777052.85        1.42807
         556249.05    3777052.85        1.62965                      556269.05
3777052.85        1.57233
         556289.05    3777052.85        1.65269                      556309.05
3777052.85        1.74112
         556249.05    3777072.85        1.69273                      556269.05
3777072.85        1.78072
         556289.05    3777072.85        1.87518                      556269.05
3777092.85        1.85689
         556441.69    3776927.49        1.44530                      556461.69
3776927.49        1.48121
         556481.69    3776927.49        1.48542                      556421.69
3776947.49        1.55898
         556441.69    3776947.49        1.58794                      556461.69
3776947.49        1.64611
         556481.69    3776947.49        1.66764                      556401.69
3776967.49        1.58850
         556421.69    3776967.49        1.67192                      556441.69
3776967.49        1.72223
         556461.69    3776967.49        1.78546                      556481.69
3776967.49        1.86610
         556401.69    3776987.49        1.66094                      556421.69
3776987.49        1.74514
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556441.69	3776987.49	1.85078	556461.69	3776987.49	1.94743
556481.69	3776987.49	2.06222	556421.69	3777007.49	1.82030
556441.69	3777007.49	1.92329	556461.69	3777007.49	2.05108
556481.69	3777007.49	2.21218	556441.69	3777027.49	2.01511
556461.69	3777027.49	2.13588	556481.69	3777027.49	2.32414
556251.24	3777154.95	2.03184	556261.28	3777141.20	2.02873
556264.98	3777168.16	2.16981	556279.25	3777151.77	2.18322
556202.60	3777113.45	1.64691	556220.05	3777109.75	1.70548
556187.53	3777090.19	1.51999	556164.27	3777121.38	1.53125
557510.26	3776508.23	1.62281	557530.26	3776508.23	1.58324
557550.26	3776508.23	1.54289	557570.26	3776508.23	1.50223
557590.26	3776508.23	1.46230	557610.26	3776508.23	1.42344
557630.26	3776508.23	1.38411	557650.26	3776508.23	1.34582
557670.26	3776508.23	1.30732	557690.26	3776508.23	1.26933
557510.26	3776528.23	1.65892	557530.26	3776528.23	1.61545
557550.26	3776528.23	1.57223	557570.26	3776528.23	1.52786
557590.26	3776528.23	1.48558	557610.26	3776528.23	1.44394
557630.26	3776528.23	1.40326	557650.26	3776528.23	1.36364
557670.26	3776528.23	1.32324	557690.26	3776528.23	1.28486
557510.26	3776548.23	1.69181	557530.26		

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3776548.23        1.64654
         557550.26    3776548.23        1.59754                        557570.26
3776548.23        1.55029
         557590.26    3776548.23        1.50630                        557610.26
3776548.23        1.46245
         557630.26    3776548.23        1.42011                        557650.26
3776548.23        1.37949
         557670.26    3776548.23        1.33867                        557690.26
3776548.23        1.30001
         557510.26    3776568.23        1.72302                        557530.26
3776568.23        1.67392
         557550.26    3776568.23        1.62285                        557570.26
3776568.23        1.57214
         557590.26    3776568.23        1.52538                        557610.26
3776568.23        1.47970
         557630.26    3776568.23        1.43597                        557650.26
3776568.23        1.39491
         557670.26    3776568.23        1.35340                        557690.26
3776568.23        1.31360
         557510.26    3776588.23        1.75172                        557530.26
3776588.23        1.70031
         557550.26    3776588.23        1.64646                        557570.26
3776588.23        1.59231
         557590.26    3776588.23        1.54204                        557610.26
3776588.23        1.49501
         557630.26    3776588.23        1.45183                        557650.26
3776588.23        1.40963
         557670.26    3776588.23        1.36841                        557690.26
3776588.23        1.32892
         557510.26    3776608.23        1.77779                        557530.26
3776608.23        1.72383
         557550.26    3776608.23        1.66690                        557570.26
3776608.23        1.61156
         557590.26    3776608.23        1.55822                        557610.26
3776608.23        1.51007
         557630.26    3776608.23        1.46630                        557650.26
3776608.23        1.42327
         557670.26    3776608.23        1.38124                        557690.26
3776608.23        1.34094
         557510.26    3776628.23        1.80167                        557530.26
3776628.23        1.74410
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0000025 , L0000026 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557550.26	3776628.23	1.68387	557570.26	3776628.23	1.63249
557590.26	3776628.23	1.57409	557610.26	3776628.23	1.52485
557630.26	3776628.23	1.47911	557650.26	3776628.23	1.43676
557670.26	3776628.23	1.39437	557690.26	3776628.23	1.35421
557510.26	3776648.23	1.82242	557530.26	3776648.23	1.76029
557550.26	3776648.23	1.69869	557570.26	3776648.23	1.63930
557590.26	3776648.23	1.58803	557610.26	3776648.23	1.53714
557630.26	3776648.23	1.49178	557650.26	3776648.23	1.44934
557670.26	3776648.23	1.40602	557690.26	3776648.23	1.36560
557510.26	3776668.23	1.83848	557530.26	3776668.23	1.77519
557550.26	3776668.23	1.71244	557570.26	3776668.23	1.65303
557590.26	3776668.23	1.60383	557610.26	3776668.23	1.54803
557630.26	3776668.23	1.50153	557650.26	3776668.23	1.45978
557670.26	3776668.23	1.41724	557690.26	3776668.23	1.37605
557510.26	3776688.23	1.85591	557530.26	3776688.23	1.79005
557550.26	3776688.23	1.72384	557570.26	3776688.23	1.66323
557590.26	3776688.23	1.60878	557610.26	3776688.23	1.55493
557630.26	3776688.23	1.50849	557650.26		

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3776688.23        1.46744
         557670.26    3776688.23        1.42335                        557690.26
3776688.23        1.37915
         556172.49    3776517.81        0.33387                        556192.49
3776517.81        0.34859
         556212.49    3776517.81        0.35436                        556232.49
3776517.81        0.36329
         556252.49    3776517.81        0.37117                        556272.49
3776517.81        0.38270
         556292.49    3776517.81        0.39207                        556312.49
3776517.81        0.39904
         556332.49    3776517.81        0.41022                        556352.49
3776517.81        0.41671
         556372.49    3776517.81        0.41742                        556392.49
3776517.81        0.43320
         556412.49    3776517.81        0.44462                        556432.49
3776517.81        0.45495
         556452.49    3776517.81        0.46391                        556472.49
3776517.81        0.48353
         556492.49    3776517.81        0.49923                        556172.49
3776537.81        0.33960
         556192.49    3776537.81        0.35086                        556212.49
3776537.81        0.36331
         556232.49    3776537.81        0.37323                        556252.49
3776537.81        0.38263
         556272.49    3776537.81        0.38963                        556292.49
3776537.81        0.40504
         556312.49    3776537.81        0.41508                        556332.49
3776537.81        0.42725
         556352.49    3776537.81        0.43510                        556372.49
3776537.81        0.43819
         556392.49    3776537.81        0.44151                        556412.49
3776537.81        0.45794
         556432.49    3776537.81        0.47211                        556452.49
3776537.81        0.48087
         556472.49    3776537.81        0.50264                        556492.49
3776537.81        0.52228
         556332.49    3776557.81        0.44815                        556352.49
3776557.81        0.45066
         556372.49    3776557.81        0.46111                        556392.49
3776557.81        0.46613
         556412.49    3776557.81        0.48175                        556432.49
3776557.81        0.49270
         556452.49    3776557.81        0.50154                        556472.49
3776557.81        0.52122
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       11:21:34
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***

INCLUDING SOURCE(S): L0000025 , L0000026 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556492.49	3776557.81	0.54530	556332.49	3776577.81	0.46271
556352.49	3776577.81	0.47505	556372.49	3776577.81	0.48407
556392.49	3776577.81	0.49506	556412.49	3776577.81	0.50789
556432.49	3776577.81	0.51523	556452.49	3776577.81	0.52807
556472.49	3776577.81	0.54789	556492.49	3776577.81	0.56950
556332.49	3776597.81	0.48551	556352.49	3776597.81	0.49763
556372.49	3776597.81	0.50741	556392.49	3776597.81	0.51219
556412.49	3776597.81	0.53110	556432.49	3776597.81	0.53939
556452.49	3776597.81	0.54629	556472.49	3776597.81	0.56451
556492.49	3776597.81	0.59441	556252.49	3776617.81	0.43631
556272.49	3776617.81	0.44950	556292.49	3776617.81	0.46655
556312.49	3776617.81	0.48657	556332.49	3776617.81	0.49692
556352.49	3776617.81	0.51995	556372.49	3776617.81	0.53718
556392.49	3776617.81	0.54541	556412.49	3776617.81	0.56097
556432.49	3776617.81	0.56690	556452.49	3776617.81	0.58250
556472.49	3776617.81	0.58823	556492.49		

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3776617.81        0.62002
         556252.49    3776637.81        0.44974                    556272.49
3776637.81        0.47051
         556292.49    3776637.81        0.48161                    556312.49
3776637.81        0.49756
         556332.49    3776637.81        0.52232                    556352.49
3776637.81        0.53954
         556372.49    3776637.81        0.56238                    556392.49
3776637.81        0.57150
         556412.49    3776637.81        0.58585                    556432.49
3776637.81        0.59759
         556452.49    3776637.81        0.60767                    556472.49
3776637.81        0.62383
         556492.49    3776637.81        0.64723                    556252.49
3776657.81        0.47000
         556272.49    3776657.81        0.48682                    556292.49
3776657.81        0.50524
         556312.49    3776657.81        0.51022                    556332.49
3776657.81        0.53986
         556352.49    3776657.81        0.56439                    556372.49
3776657.81        0.58789
         556392.49    3776657.81        0.59584                    556412.49
3776657.81        0.61055
         556432.49    3776657.81        0.62397                    556452.49
3776657.81        0.63839
         556472.49    3776657.81        0.65371                    556492.49
3776657.81        0.67807
         556252.49    3776677.81        0.49452                    556272.49
3776677.81        0.49841
         556292.49    3776677.81        0.51423                    556312.49
3776677.81        0.53407
         556332.49    3776677.81        0.55787                    556352.49
3776677.81        0.58550
         556372.49    3776677.81        0.60833                    556392.49
3776677.81        0.62307
         556412.49    3776677.81        0.64620                    556432.49
3776677.81        0.65407
         556452.49    3776677.81        0.66821                    556472.49
3776677.81        0.68905
         556492.49    3776677.81        0.71306                    556252.49
3776697.81        0.52512
         556272.49    3776697.81        0.52594                    556372.49
3776697.81        0.63041
         556392.49    3776697.81        0.64237                    556412.49
3776697.81        0.66958
         556432.49    3776697.81        0.68553                    556452.49
3776697.81        0.69868
         556472.49    3776697.81        0.72214                    556492.49
3776697.81        0.75021
 *** AERMOD - VERSION 24142  ***   ***
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE   ***
                                 INCLUDING SOURCE(S):   L0000025   , L0000026
,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         556521.71    3777341.57       31.89234                     556539.90
3777344.94       34.48653
         556591.78    3777345.39       41.94270                     556630.62
3777349.66       48.89002
         556684.29    3777349.43       63.67161                     556905.58
3777351.19      120.14785
         556920.93    3777350.82      111.40063                     556942.87
3777350.09       93.97754
         556996.26    3777348.26       56.95944                     557096.81
3777357.77       28.82126
         557115.83    3777363.62       25.54584                     557129.36
3777361.43       24.25557
         557230.65    3777363.99       16.08788                     556466.22
3776816.07        3.19745
         556407.87    3776826.19        2.92814                     556381.07
3776807.14        2.65911
         556404.29    3776771.52        2.49602                     556465.21
3776739.51        2.55084
         556396.10    3776739.93        2.28597                     556323.99
3777265.43       11.53311
         556330.60    3777233.99       11.11469                     556321.08
3777200.43        9.75327
         556275.11    3777267.81        9.57165                     556278.28
3777233.46        9.08502
         556509.40    3777373.38       27.51587                     556529.40
3777373.38       29.77175
         556549.40    3777373.38       31.90356                     556569.40
```

```
3777373.38       33.99473
         556589.40    3777373.38       36.56186                  556609.40
3777373.38       39.68355
         556629.40    3777373.38       43.53218                  556649.40
3777373.38       47.76482
         556669.40    3777373.38       52.39073                  556689.40
3777373.38       57.03839
         556709.40    3777373.38       61.05363                  556729.40
3777373.38       63.98232
         556749.40    3777373.38       66.13573                  556769.40
3777373.38       68.33579
         556789.40    3777373.38       72.15766                  556809.40
3777373.38       77.43102
         556829.40    3777373.38       82.41878                  556849.40
3777373.38       85.95687
         556869.40    3777373.38       87.78782                  556889.40
3777373.38       86.88451
         556909.40    3777373.38       83.02577                  556929.40
3777373.38       75.72722
         556949.40    3777373.38       65.49295                  556969.40
3777373.38       54.88594
         556989.40    3777373.38       46.35859                  557009.40
3777373.38       40.39185
         557029.40    3777373.38       36.19199                  557049.40
3777373.38       32.79451
         557069.40    3777373.38       29.80602                  557089.40
3777373.38       27.23103
         557109.40    3777373.38       24.95188                  557129.40
3777373.38       22.93639
         557149.40    3777373.38       21.14502                  557169.40
3777373.38       19.56625
         557189.40    3777373.38       18.19020                  557209.40
3777373.38       16.93923
         557229.40    3777373.38       15.77795                  557249.40
3777373.38       14.71433
         557269.40    3777373.38       13.74010                  557289.40
3777373.38       12.88597
         557309.40    3777373.38       12.11651                  557329.40
3777373.38       11.37363
         557349.40    3777373.38       10.73240                  557369.40
3777373.38       10.12400
         557389.40    3777373.38        9.56600                  557409.40
3777373.38        9.05263
         557429.40    3777373.38        8.56254                  557449.40
3777373.38        8.13052
         557469.40    3777373.38        7.71791                  557489.40
3777373.38        7.30770
         556509.40    3777393.38       25.92674                  556529.40
3777393.38       27.69609
         556549.40    3777393.38       29.43879                  556569.40
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                             *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                   L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                   L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , L0000103   ,
                   L0000104   , L0000105   , L0000106   , L0000025   , L0000026
, L0000107   , L0000108   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         556629.40   3777393.38   40.10361   556649.40
3777393.38   43.62308
         556669.40   3777393.38   47.24003   556689.40
3777393.38   50.62553
         556709.40   3777393.38   53.49719   556729.40
3777393.38   55.36247
         556749.40   3777393.38   56.93822   556769.40
3777393.38   58.82179
         556789.40   3777393.38   61.54382   556809.40
3777393.38   64.56627
         556829.40   3777393.38   66.79439   556849.40
3777393.38   67.59421
         556869.40   3777393.38   67.52462   556889.40
3777393.38   66.84338
         556909.40   3777393.38   64.48561   556929.40
3777393.38   60.26011
         556949.40   3777393.38   53.42013   556969.40

```
3777393.38       46.11089
         556989.40    3777393.38       39.57184                       557009.40
3777393.38       34.59716
         557029.40    3777393.38       30.94843                       557049.40
3777393.38       28.23172
         557069.40    3777393.38       26.01147                       557089.40
3777393.38       24.08118
         557109.40    3777393.38       22.36972                       557129.40
3777393.38       20.72917
         557149.40    3777393.38       19.33771                       557169.40
3777393.38       18.01672
         557189.40    3777393.38       16.83182                       557209.40
3777393.38       15.80655
         557229.40    3777393.38       14.85167                       557249.40
3777393.38       13.92575
         557269.40    3777393.38       13.09476                       557289.40
3777393.38       12.32107
         557309.40    3777393.38       11.58119                       557329.40
3777393.38       10.95999
         557349.40    3777393.38       10.36316                       557369.40
3777393.38        9.81623
         557389.40    3777393.38        9.30713                       557409.40
3777393.38        8.81745
         557429.40    3777393.38        8.37096                       557449.40
3777393.38        7.96620
         557469.40    3777393.38        7.56982                       557489.40
3777393.38        7.18380
         556509.40    3777413.38       24.33420                       556529.40
3777413.38       25.83046
         556549.40    3777413.38       27.42380                       556569.40
3777413.38       29.27307
         556589.40    3777413.38       31.50480                       556609.40
3777413.38       34.10677
         556629.40    3777413.38       37.02229                       556649.40
3777413.38       39.87022
         556669.40    3777413.38       42.69077                       556689.40
3777413.38       45.10949
         556709.40    3777413.38       46.94796                       556729.40
3777413.38       48.20698
         556749.40    3777413.38       49.34986                       556769.40
3777413.38       51.01008
         556789.40    3777413.38       52.70898                       556809.40
3777413.38       54.18601
         556829.40    3777413.38       54.77013                       556849.40
3777413.38       54.61160
         556869.40    3777413.38       54.38542                       556889.40
3777413.38       53.70470
         556909.40    3777413.38       52.36373                       556929.40
3777413.38       49.82394
         556949.40    3777413.38       45.03269                       556969.40
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3777413.38       39.68500
         556989.40    3777413.38       34.50440                      557009.40
3777413.38       30.30105
         557029.40    3777413.38       27.05103                      557049.40
3777413.38       24.68938
         557069.40    3777413.38       22.85047                      557089.40
3777413.38       21.30733
         557109.40    3777413.38       19.97612                      557129.40
3777413.38       18.65782
         557149.40    3777413.38       17.57874                      557169.40
3777413.38       16.49476
         557189.40    3777413.38       15.53775                      557209.40
3777413.38       14.67920
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557229.40    3777413.38       13.84343                      557249.40
3777413.38       13.07327
         557269.40    3777413.38       12.36485                      557289.40
3777413.38       11.69972
         557309.40    3777413.38       11.07574                      557329.40
3777413.38       10.48049
         557349.40    3777413.38        9.96776                      557369.40
```

```
3777413.38        9.44491
         557389.40    3777413.38        8.99392                    557409.40
3777413.38        8.56447
         557429.40    3777413.38        8.12625                    557449.40
3777413.38        7.74746
         557469.40    3777413.38        7.40061                    557489.40
3777413.38        7.04795
         556509.40    3777433.38       22.86096                    556529.40
3777433.38       24.15815
         556549.40    3777433.38       25.60107                    556569.40
3777433.38       27.30340
         556589.40    3777433.38       29.42113                    556609.40
3777433.38       31.74125
         556629.40    3777433.38       34.16162                    556649.40
3777433.38       36.48176
         556669.40    3777433.38       38.52195                    556689.40
3777433.38       40.23144
         556709.40    3777433.38       41.36255                    556729.40
3777433.38       42.32673
         556749.40    3777433.38       43.21683                    556769.40
3777433.38       44.42348
         556789.40    3777433.38       45.28336                    556809.40
3777433.38       45.65016
         556829.40    3777433.38       45.51402                    556849.40
3777433.38       44.99143
         556869.40    3777433.38       44.79139                    556889.40
3777433.38       44.44422
         556909.40    3777433.38       43.63115                    556929.40
3777433.38       41.73447
         556949.40    3777433.38       38.70710                    556969.40
3777433.38       34.68347
         556989.40    3777433.38       30.56300                    557009.40
3777433.38       27.12205
         557029.40    3777433.38       24.21570                    557049.40
3777433.38       22.04796
         557069.40    3777433.38       20.35012                    557089.40
3777433.38       18.99663
         557109.40    3777433.38       17.88049                    557129.40
3777433.38       16.82624
         557149.40    3777433.38       15.93283                    557169.40
3777433.38       15.03519
         557189.40    3777433.38       14.26641                    557209.40
3777433.38       13.55218
         557229.40    3777433.38       12.83109                    557249.40
3777433.38       12.21634
         557269.40    3777433.38       11.60807                    557289.40
3777433.38       11.01885
         557309.40    3777433.38       10.50836                    557329.40
3777433.38        9.98350
         557349.40    3777433.38        9.46917                    557369.40
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3777433.38        9.02931
         557389.40    3777433.38        8.65698                      557409.40
3777433.38        8.27349
         557429.40    3777433.38        7.86177                      557449.40
3777433.38        7.51375
         557469.40    3777433.38        7.18184                      557489.40
3777433.38        6.86865
         556509.40    3777453.38       21.48993                      556529.40
3777453.38       22.67592
         556549.40    3777453.38       24.07515                      556569.40
3777453.38       25.66089
         556589.40    3777453.38       27.53920                      556609.40
3777453.38       29.48669
         556629.40    3777453.38       31.50725                      556649.40
3777453.38       33.26698
         556669.40    3777453.38       34.67379                      556689.40
3777453.38       35.76308
         556709.40    3777453.38       36.50913                      556729.40
3777453.38       37.29949
         556749.40    3777453.38       38.06768                      556769.40
3777453.38       38.73441
         556789.40    3777453.38       39.00508                      556809.40
3777453.38       38.85397
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                   L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                   L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                   L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
```

```
Y-COORD (M)        CONC
 - - -
```

```
3777473.38       33.83574
         556789.40    3777473.38       33.72660                       556809.40
3777473.38       33.42044
         556829.40    3777473.38       33.08957                       556849.40
3777473.38       32.90050
         556869.40    3777473.38       32.86210                       556889.40
3777473.38       32.51238
         556909.40    3777473.38       32.07553                       556929.40
3777473.38       31.06022
         556949.40    3777473.38       29.47952                       556969.40
3777473.38       27.33487
         556989.40    3777473.38       24.86124                       557009.40
3777473.38       22.38624
         557029.40    3777473.38       20.10805                       557049.40
3777473.38       18.21178
         557069.40    3777473.38       16.75961                       557089.40
3777473.38       15.58483
         557109.40    3777473.38       14.67370                       557129.40
3777473.38       13.86656
         557149.40    3777473.38       13.21800                       557169.40
3777473.38       12.55571
         557189.40    3777473.38       11.99717                       557209.40
3777473.38       11.48876
         557229.40    3777473.38       10.99140                       557249.40
3777473.38       10.55760
         557269.40    3777473.38       10.11064                       557289.40
3777473.38        9.69202
         557309.40    3777473.38        9.30657                       557329.40
3777473.38        8.93968
         557349.40    3777473.38        8.57385                       557369.40
3777473.38        8.22883
         557389.40    3777473.38        7.88705                       557409.40
3777473.38        7.58351
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:21:34

                                PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
```

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                L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         557429.40    3777473.38        7.27176                      557449.40
3777473.38        7.00768
         557469.40    3777473.38        6.72580                      557489.40
3777473.38        6.45176
         556509.40    3777493.38       19.14582                      556529.40
3777493.38       20.22183
         556549.40    3777493.38       21.40588                      556569.40
3777493.38       22.59817
         556589.40    3777493.38       23.92698                      556609.40
3777493.38       25.26448
         556629.40    3777493.38       26.34394                      556649.40
3777493.38       27.22416
         556669.40    3777493.38       27.95855                      556689.40
3777493.38       28.42333
         556709.40    3777493.38       28.87125                      556729.40
3777493.38       29.38369
         556749.40    3777493.38       29.57538                      556769.40
3777493.38       29.67116
         556789.40    3777493.38       29.40006                      556809.40
3777493.38       29.01515
         556829.40    3777493.38       28.83701                      556849.40
3777493.38       28.69457
         556869.40    3777493.38       28.70641                      556889.40
3777493.38       28.48241
         556909.40    3777493.38       28.11589                      556929.40
3777493.38       27.32991
         556949.40    3777493.38       26.15120                      556969.40
3777493.38       24.49795
         556989.40    3777493.38       22.61516                      557009.40
3777493.38       20.60710
         557029.40    3777493.38       18.62273                      557049.40
3777493.38       16.88270
         557069.40    3777493.38       15.48567                      557089.40
3777493.38       14.33990
         557109.40    3777493.38       13.48491                      557129.40
3777493.38       12.73291
         557149.40    3777493.38       12.11937                      557169.40
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3777493.38       11.56062
         557189.40    3777493.38       11.03709                       557209.40
3777493.38       10.60556
         557229.40    3777493.38       10.17157                       557249.40
3777493.38        9.77915
         557269.40    3777493.38        9.41477                       557289.40
3777493.38        9.06037
         557309.40    3777493.38        8.71441                       557329.40
3777493.38        8.39527
         557349.40    3777493.38        8.09144                       557369.40
3777493.38        7.79211
         557389.40    3777493.38        7.51277                       557409.40
3777493.38        7.24014
         557429.40    3777493.38        6.94285                       557449.40
3777493.38        6.69827
         557469.40    3777493.38        6.46833                       557489.40
3777493.38        6.22706
         556509.40    3777513.38       18.13892                       556529.40
3777513.38       19.10797
         556549.40    3777513.38       20.12742                       556569.40
3777513.38       21.38010
         556589.40    3777513.38       22.44844                       556609.40
3777513.38       23.33131
         556629.40    3777513.38       24.21249                       556649.40
3777513.38       24.79080
         556669.40    3777513.38       25.21450                       556689.40
3777513.38       25.48268
         556709.40    3777513.38       25.83054                       556729.40
3777513.38       26.18684
         556749.40    3777513.38       26.23100                       556769.40
3777513.38       26.20212
         556789.40    3777513.38       25.91544                       556809.40
3777513.38       25.53873
         556829.40    3777513.38       25.41287                       556849.40
3777513.38       25.33458
         556869.40    3777513.38       25.35588                       556889.40
3777513.38       25.22284
         556909.40    3777513.38       24.83778                       556929.40
3777513.38       24.28200
         556949.40    3777513.38       23.38902                       556969.40
3777513.38       22.11649
         556989.40    3777513.38       20.60380                       557009.40
3777513.38       18.99111
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:21:34

                                PAGE  62
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557029.40    3777513.38       17.30257                      557049.40
3777513.38       15.76808
         557069.40    3777513.38       14.42098                      557089.40
3777513.38       13.32738
         557109.40    3777513.38       12.46995                      557129.40
3777513.38       11.77004
         557149.40    3777513.38       11.19854                      557169.40
3777513.38       10.69031
         557189.40    3777513.38       10.21654                      557209.40
3777513.38        9.83286
         557229.40    3777513.38        9.43451                      557249.40
3777513.38        9.10559
         557269.40    3777513.38        8.77395                      557289.40
3777513.38        8.45872
         557309.40    3777513.38        8.17386                      557329.40
3777513.38        7.89704
         557349.40    3777513.38        7.62538                      557369.40
3777513.38        7.36023
         557389.40    3777513.38        7.11681                      557409.40
3777513.38        6.88375
         557429.40    3777513.38        6.63665                      557449.40
3777513.38        6.40654
         557469.40    3777513.38        6.19057                      557489.40
3777513.38        5.98365
         556509.40    3777533.38       17.21087                      556529.40
3777533.38       18.12076
         556549.40    3777533.38       19.04087                      556569.40
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3777533.38       19.95644
         556589.40    3777533.38       20.77834                  556609.40
3777533.38       21.48402
         556629.40    3777533.38       22.03796                  556649.40
3777533.38       22.42554
         556669.40    3777533.38       22.63362                  556689.40
3777533.38       22.88198
         556709.40    3777533.38       23.18108                  556729.40
3777533.38       23.37560
         556749.40    3777533.38       23.35154                  556769.40
3777533.38       23.21629
         556789.40    3777533.38       23.01644                  556809.40
3777533.38       22.73622
         556829.40    3777533.38       22.69511                  556849.40
3777533.38       22.59971
         556869.40    3777533.38       22.59168                  556889.40
3777533.38       22.51010
         556909.40    3777533.38       22.21647                  556929.40
3777533.38       21.73543
         556949.40    3777533.38       21.02319                  556969.40
3777533.38       20.01571
         556989.40    3777533.38       18.82678                  557009.40
3777533.38       17.51743
         557029.40    3777533.38       16.10799                  557049.40
3777533.38       14.75848
         557069.40    3777533.38       13.53555                  557089.40
3777533.38       12.49115
         557109.40    3777533.38       11.64500                  557129.40
3777533.38       10.97713
         557149.40    3777533.38       10.42756                  557169.40
3777533.38        9.93096
         557189.40    3777533.38        9.50041                  557209.40
3777533.38        9.15094
         557229.40    3777533.38        8.77710                  557249.40
3777533.38        8.48325
         557269.40    3777533.38        8.18512                  557289.40
3777533.38        7.91475
         557309.40    3777533.38        7.65947                  557329.40
3777533.38        7.41599
         557349.40    3777533.38        7.18415                  557369.40
3777533.38        6.95226
         557389.40    3777533.38        6.72005                  557409.40
3777533.38        6.52269
         557429.40    3777533.38        6.31606                  557449.40
3777533.38        6.12106
         557469.40    3777533.38        5.91668                  557489.40
3777533.38        5.72339
         556509.40    3777553.38       16.37391                  556529.40
3777553.38       17.16571
         556549.40    3777553.38       17.91943                  556569.40
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3777553.38       18.67009
         556589.40    3777553.38       19.31274                       556609.40
3777553.38       19.75591
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                   L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                   L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                   L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777553.38       20.10886                       556649.40
3777553.38       20.36552
         556669.40    3777553.38       20.43776                       556689.40
3777553.38       20.59937
         556709.40    3777553.38       20.82115                       556729.40
3777553.38       20.91349
         556749.40    3777553.38       20.77498                       556769.40
3777553.38       20.65324
         556789.40    3777553.38       20.55599                       556809.40
3777553.38       20.41283
         556829.40    3777553.38       20.39199                       556849.40
3777553.38       20.34703
         556869.40    3777553.38       20.32817                       556889.40
3777553.38       20.24724
         556909.40    3777553.38       20.03119                       556929.40
3777553.38       19.68483
         556949.40    3777553.38       18.99073                       556969.40
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3777553.38       18.21593
         556989.40    3777553.38       17.22195                  557009.40
3777553.38       16.16143
         557029.40    3777553.38       14.97797                  557049.40
3777553.38       13.82719
         557069.40    3777553.38       12.73488                  557089.40
3777553.38       11.75700
         557109.40    3777553.38       10.92725                  557129.40
3777553.38       10.27291
         557149.40    3777553.38        9.73741                  557169.40
3777553.38        9.27370
         557189.40    3777553.38        8.87408                  557209.40
3777553.38        8.52630
         557229.40    3777553.38        8.20189                  557249.40
3777553.38        7.91052
         557269.40    3777553.38        7.64891                  557289.40
3777553.38        7.40821
         557309.40    3777553.38        7.17953                  557329.40
3777553.38        6.96224
         557349.40    3777553.38        6.76132                  557369.40
3777553.38        6.56464
         557389.40    3777553.38        6.35996                  557409.40
3777553.38        6.17731
         557429.40    3777553.38        5.99665                  557449.40
3777553.38        5.82568
         557469.40    3777553.38        5.65232                  557489.40
3777553.38        5.47011
         557438.91    3777336.71        8.55768                  556615.91
3777136.99       58.01161
         556586.37    3777056.16       20.58568                  556672.35
3776929.14       15.54043
         556692.35    3776929.14       17.39687                  556712.35
3776929.14       19.57387
         556732.35    3776929.14       21.79200                  556752.35
3776929.14       23.86271
         556772.35    3776929.14       25.17762                  556792.35
3776929.14       25.88693
         556812.35    3776929.14       26.48171                  556832.35
3776929.14       26.91750
         556852.35    3776929.14       28.09851                  556672.35
3776949.14       17.40643
         556692.35    3776949.14       19.72246                  556712.35
3776949.14       22.35759
         556732.35    3776949.14       24.92196                  556752.35
3776949.14       26.91419
         556772.35    3776949.14       28.12843                  556792.35
3776949.14       28.75891
         556812.35    3776949.14       29.12089                  556832.35
3776949.14       29.66048
         556852.35    3776949.14       31.30575                  556672.35
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3776969.14       19.67301
         556692.35    3776969.14       22.59926                       556712.35
3776969.14       25.86416
         556732.35    3776969.14       28.79789                       556752.35
3776969.14       30.72513
         556772.35    3776969.14       31.54264                       556792.35
3776969.14       31.81858
         556812.35    3776969.14       32.07806                       556832.35
3776969.14       33.04588
         556852.35    3776969.14       35.40881                       556672.35
3776989.14       22.49725
         556692.35    3776989.14       26.23245                       556712.35
3776989.14       30.25051
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556732.35    3776989.14       33.46827                       556752.35
3776989.14       35.10853
         556772.35    3776989.14       35.35378                       556792.35
3776989.14       35.25137
         556812.35    3776989.14       35.58888                       556832.35
3776989.14       37.27937
         556852.35    3776989.14       40.79191                       556672.35
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3777009.14       26.09076
         556692.35    3777009.14       30.93820                  556712.35
3777009.14       35.79788
         556732.35    3777009.14       39.04611                  556752.35
3777009.14       40.06257
         556772.35    3777009.14       39.64016                  556792.35
3777009.14       39.32931
         556812.35    3777009.14       40.09201                  556832.35
3777009.14       42.81871
         556852.35    3777009.14       47.99571                  556672.35
3777029.14       30.93997
         556692.35    3777029.14       37.22912                  556712.35
3777029.14       42.87862
         556732.35    3777029.14       45.60331                  556752.35
3777029.14       45.60369
         556772.35    3777029.14       44.60177                  556792.35
3777029.14       44.43329
         556812.35    3777029.14       46.07221                  556832.35
3777029.14       50.47823
         556852.35    3777029.14       57.80733                  556672.35
3777049.14       37.81199
         556692.35    3777049.14       45.98053                  556712.35
3777049.14       51.87586
         556732.35    3777049.14       53.19616                  556752.35
3777049.14       51.90785
         556772.35    3777049.14       50.72634                  556792.35
3777049.14       51.22219
         556812.35    3777049.14       54.42579                  556832.35
3777049.14       61.28021
         556852.35    3777049.14       71.52034                  556927.54
3776959.53       47.94301
         556947.54    3776959.53       48.57125                  556967.54
3776959.53       46.11193
         556987.54    3776959.53       41.88321                  557007.54
3776959.53       37.04203
         557027.54    3776959.53       32.45087                  557047.54
3776959.53       28.53340
         557067.54    3776959.53       25.29146                  557087.54
3776959.53       22.56077
         556927.54    3776979.53       54.96722                  556947.54
3776979.53       54.07020
         556967.54    3776979.53       49.88265                  556987.54
3776979.53       44.09371
         557007.54    3776979.53       38.35485                  557027.54
3776979.53       33.45749
         557047.54    3776979.53       29.49771                  557067.54
3776979.53       26.23303
         557087.54    3776979.53       23.42586                  556927.54
3776999.53       63.10414
         556947.54    3776999.53       59.78409                  556967.54
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3776999.53       53.27744
         556987.54    3776999.53       46.08726                       557007.54
3776999.53       39.75748
         557027.54    3776999.53       34.76337                       557047.54
3776999.53       30.79397
         557067.54    3776999.53       27.43080                       557087.54
3776999.53       24.45412
         556927.54    3777019.53       72.31098                       556947.54
3777019.53       65.71295
         556967.54    3777019.53       56.51676                       556987.54
3777019.53       48.08745
         557007.54    3777019.53       41.52303                       557027.54
3777019.53       36.54659
         557047.54    3777019.53       32.47183                       557067.54
3777019.53       28.86001
         557087.54    3777019.53       25.60937                       556927.54
3777039.53       82.40340
         556947.54    3777039.53       71.36816                       556967.54
3777039.53       59.59978
         556987.54    3777039.53       50.50079                       557007.54
3777039.53       43.97810
         557027.54    3777039.53       38.92062                       557047.54
3777039.53       34.71569
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                   L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                   L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                   L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
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Y-COORD (M)        CONC
 - - -
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3777012.85        4.98959
         556309.05    3777012.85        5.14943                      556329.05
3777012.85        5.46482
         556209.05    3777032.85        4.53856                      556229.05
3777032.85        4.62231
         556249.05    3777032.85        4.68531                      556269.05
3777032.85        4.94203
         556289.05    3777032.85        5.24638                      556309.05
3777032.85        5.55287
         556209.05    3777052.85        4.71288                      556229.05
3777052.85        4.81544
         556249.05    3777052.85        5.21899                      556269.05
3777052.85        5.37585
         556289.05    3777052.85        5.69672                      556309.05
3777052.85        6.05437
         556249.05    3777072.85        5.44923                      556269.05
3777072.85        5.77372
         556289.05    3777072.85        6.12438                      556269.05
3777092.85        6.04926
         556441.69    3776927.49        4.63102                      556461.69
3776927.49        4.85906
         556481.69    3776927.49        4.99741                      556421.69
3776947.49        4.92741
         556441.69    3776947.49        5.05645                      556461.69
3776947.49        5.33627
         556481.69    3776947.49        5.52563                      556401.69
3776967.49        5.12120
         556421.69    3776967.49        5.37097                      556441.69
3776967.49        5.52672
         556461.69    3776967.49        5.77324                      556481.69
3776967.49        6.13806
         556401.69    3776987.49        5.51337                      556421.69
3776987.49        5.74901
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:21:34

                                PAGE  66
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                 L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                 L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
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                L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         556441.69    3776987.49        6.07579                       556461.69
3776987.49        6.39715
         556481.69    3776987.49        6.83304                       556421.69
3777007.49        6.18553
         556441.69    3777007.49        6.49733                       556461.69
3777007.49        6.91122
         556481.69    3777007.49        7.48236                       556441.69
3777027.49        7.03414
         556461.69    3777027.49        7.43224                       556481.69
3777027.49        8.10370
         556251.24    3777154.95        6.75283                       556261.28
3777141.20        6.73355
         556264.98    3777168.16        7.29066                       556279.25
3777151.77        7.33324
         556202.60    3777113.45        5.31449                       556220.05
3777109.75        5.52524
         556187.53    3777090.19        4.86730                       556164.27
3777121.38        4.92647
         557510.26    3776508.23        4.64473                       557530.26
3776508.23        4.51631
         557550.26    3776508.23        4.39507                       557570.26
3776508.23        4.27918
         557590.26    3776508.23        4.16891                       557610.26
3776508.23        4.06363
         557630.26    3776508.23        3.95847                       557650.26
3776508.23        3.85637
         557670.26    3776508.23        3.75363                       557690.26
3776508.23        3.65179
         557510.26    3776528.23        4.73218                       557530.26
3776528.23        4.59966
         557550.26    3776528.23        4.47505                       557570.26
3776528.23        4.35251
         557590.26    3776528.23        4.23786                       557610.26
3776528.23        4.12634
         557630.26    3776528.23        4.01786                       557650.26
3776528.23        3.91209
         557670.26    3776528.23        3.80387                       557690.26
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3776528.23        3.70026
         557510.26    3776548.23        4.81640                        557530.26
3776548.23        4.68356
         557550.26    3776548.23        4.54784                        557570.26
3776548.23        4.41964
         557590.26    3776548.23        4.30149                        557610.26
3776548.23        4.18451
         557630.26    3776548.23        4.07148                        557650.26
3776548.23        3.96253
         557670.26    3776548.23        3.85238                        557690.26
3776548.23        3.74717
         557510.26    3776568.23        4.89996                        557530.26
3776568.23        4.76130
         557550.26    3776568.23        4.62225                        557570.26
3776568.23        4.48626
         557590.26    3776568.23        4.36135                        557610.26
3776568.23        4.23936
         557630.26    3776568.23        4.12205                        557650.26
3776568.23        4.01117
         557670.26    3776568.23        3.89817                        557690.26
3776568.23        3.78884
         557510.26    3776588.23        4.98030                        557530.26
3776588.23        4.83854
         557550.26    3776588.23        4.69373                        557570.26
3776588.23        4.54930
         557590.26    3776588.23        4.41503                        557610.26
3776588.23        4.28878
         557630.26    3776588.23        4.17199                        557650.26
3776588.23        4.05699
         557670.26    3776588.23        3.94366                        557690.26
3776588.23        3.83410
         557510.26    3776608.23        5.05673                        557530.26
3776608.23        4.91032
         557550.26    3776608.23        4.75830                        557570.26
3776608.23        4.61068
         557590.26    3776608.23        4.46787                        557610.26
3776608.23        4.33759
         557630.26    3776608.23        4.21783                        557650.26
3776608.23        4.09921
         557670.26    3776608.23        3.98244                        557690.26
3776608.23        3.86952
         557510.26    3776628.23        5.13069                        557530.26
3776628.23        4.97591
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:21:34

                                PAGE  67
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557550.26    3776628.23        4.81530                       557570.26
3776628.23        4.67676
         557590.26    3776628.23        4.51954                       557610.26
3776628.23        4.38493
         557630.26    3776628.23        4.25856                       557650.26
3776628.23        4.14032
         557670.26    3776628.23        4.02128                       557690.26
3776628.23        3.90759
         557510.26    3776648.23        5.19827                       557530.26
3776648.23        5.03140
         557550.26    3776648.23        4.86561                       557570.26
3776648.23        4.66005
         557590.26    3776648.23        4.52142                       557610.26
3776648.23        4.37564
         557630.26    3776648.23        4.25763                       557650.26
3776648.23        4.14918
         557670.26    3776648.23        4.02768                       557690.26
3776648.23        3.92225
         557510.26    3776668.23        5.17281                       557530.26
3776668.23        4.98374
         557550.26    3776668.23        4.80249                       557570.26
3776668.23        4.56370
         557590.26    3776668.23        4.45104                       557610.26
3776668.23        4.27710
         557630.26    3776668.23        4.16291                       557650.26
3776668.23        4.06397
         557670.26    3776668.23        4.00062                       557690.26
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3776668.23        3.89192
         557510.26    3776688.23        5.04475                    557530.26
3776688.23        4.87041
         557550.26    3776688.23        4.67340                    557570.26
3776688.23        4.52237
         557590.26    3776688.23        4.38229                    557610.26
3776688.23        4.21426
         557630.26    3776688.23        4.11006                    557650.26
3776688.23        4.00503
         557670.26    3776688.23        3.88719                    557690.26
3776688.23        3.77097
         556172.49    3776517.81        1.04887                    556192.49
3776517.81        1.08906
         556212.49    3776517.81        1.10111                    556232.49
3776517.81        1.12509
         556252.49    3776517.81        1.14833                    556272.49
3776517.81        1.18533
         556292.49    3776517.81        1.21713                    556312.49
3776517.81        1.24162
         556332.49    3776517.81        1.27753                    556352.49
3776517.81        1.29629
         556372.49    3776517.81        1.29437                    556392.49
3776517.81        1.33586
         556412.49    3776517.81        1.36299                    556432.49
3776517.81        1.38742
         556452.49    3776517.81        1.40990                    556472.49
3776517.81        1.46843
         556492.49    3776517.81        1.52010                    556172.49
3776537.81        1.07429
         556192.49    3776537.81        1.10419                    556212.49
3776537.81        1.13694
         556232.49    3776537.81        1.16220                    556252.49
3776537.81        1.18780
         556272.49    3776537.81        1.20859                    556292.49
3776537.81        1.25799
         556312.49    3776537.81        1.29180                    556332.49
3776537.81        1.33173
         556352.49    3776537.81        1.35623                    556372.49
3776537.81        1.36320
         556392.49    3776537.81        1.36794                    556412.49
3776537.81        1.41075
         556432.49    3776537.81        1.44644                    556452.49
3776537.81        1.46720
         556472.49    3776537.81        1.53074                    556492.49
3776537.81        1.59250
         556332.49    3776557.81        1.39789                    556352.49
3776557.81        1.40705
         556372.49    3776557.81        1.43819                    556392.49
3776557.81        1.44958
         556412.49    3776557.81        1.49086                    556432.49
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3776557.81   1.51680
         556452.49   3776557.81   1.53704   556472.49
3776557.81   1.59289

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                  L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                  L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , L0000103   ,
                  L0000104   , L0000105   , L0000106   , L0000025   , L0000026
, L0000107   , L0000108   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         556492.49   3776557.81   1.66640   556332.49
3776577.81   1.44504
         556352.49   3776577.81   1.48499   556372.49
3776577.81   1.51304
         556392.49   3776577.81   1.54433   556412.49
3776577.81   1.57835
         556432.49   3776577.81   1.59377   556452.49
3776577.81   1.62594
         556472.49   3776577.81   1.68127   556492.49
3776577.81   1.74565
         556332.49   3776597.81   1.51974   556352.49
3776597.81   1.55814
         556372.49   3776597.81   1.58910   556392.49
3776597.81   1.60264
         556412.49   3776597.81   1.65692   556432.49
3776597.81   1.67621
         556452.49   3776597.81   1.69043   556472.49

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3776597.81        1.74029
         556492.49    3776597.81        1.82886                   556252.49
3776617.81        1.39336
         556272.49    3776617.81        1.42889                   556292.49
3776617.81        1.47578
         556312.49    3776617.81        1.53297                   556332.49
3776617.81        1.56134
         556352.49    3776617.81        1.63243                   556372.49
3776617.81        1.68602
         556392.49    3776617.81        1.71070                   556412.49
3776617.81        1.75603
         556432.49    3776617.81        1.76922                   556452.49
3776617.81        1.81082
         556472.49    3776617.81        1.82228                   556492.49
3776617.81        1.91599
         556252.49    3776637.81        1.44405                   556272.49
3776637.81        1.50699
         556292.49    3776637.81        1.53600                   556312.49
3776637.81        1.57909
         556332.49    3776637.81        1.65135                   556352.49
3776637.81        1.70121
         556372.49    3776637.81        1.77084                   556392.49
3776637.81        1.79767
         556412.49    3776637.81        1.84000                   556432.49
3776637.81        1.87224
         556452.49    3776637.81        1.89783                   556472.49
3776637.81        1.94192
         556492.49    3776637.81        2.00963                   556252.49
3776657.81        1.51266
         556272.49    3776657.81        1.56795                   556292.49
3776657.81        1.62394
         556312.49    3776657.81        1.63272                   556332.49
3776657.81        1.72006
         556352.49    3776657.81        1.79106                   556372.49
3776657.81        1.86018
         556392.49    3776657.81        1.88125                   556412.49
3776657.81        1.92433
         556432.49    3776657.81        1.96237                   556452.49
3776657.81        2.00234
         556472.49    3776657.81        2.04468                   556492.49
3776657.81        2.11584
         556252.49    3776677.81        1.58929                   556272.49
3776677.81        1.60868
         556292.49    3776677.81        1.66158                   556312.49
3776677.81        1.72266
         556332.49    3776677.81        1.79270                   556352.49
3776677.81        1.87311
         556372.49    3776677.81        1.93781                   556392.49
3776677.81        1.97768
         556412.49    3776677.81        2.04552                   556432.49
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3776677.81        2.06532
         556452.49    3776677.81        2.10472                      556472.49
3776677.81        2.16502
         556492.49    3776677.81        2.23599                      556252.49
3776697.81        1.67842
         556272.49    3776697.81        1.69469                      556372.49
3776697.81        2.02521
         556392.49    3776697.81        2.05360                      556412.49
3776697.81        2.13204
         556432.49    3776697.81        2.17527                      556452.49
3776697.81        2.21054
         556472.49    3776697.81        2.27921                      556492.49
3776697.81        2.36374
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         556252.49    3776717.81        1.73757                      556272.49
3776717.81        1.78530
         556372.49    3776717.81        2.11435                      556392.49
3776717.81        2.14128
         556412.49    3776717.81        2.23501                      556432.49
3776717.81        2.29003
         556452.49    3776717.81        2.33481                      556472.49
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3776717.81        2.45004
         556492.49    3776717.81        2.50160                       556267.40
3776875.81        3.11520
         556239.03    3776853.02        2.76414                       556178.76
3776751.21        1.93553
         556154.45    3776774.51        2.02475                       556119.50
3776705.11        1.60991
         556146.51    3777267.93        6.27472                       556151.00
3777234.88        6.04541
         556144.93    3777179.58        5.37207                       556205.18
3777236.46        7.13756
         556218.00    3777200.04        6.84224                       556772.00
3777345.97       86.03924
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                 L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                 L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                 L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        556521.71   3777341.57      493.27241  (19042706)               556539.90
3777344.94      528.16138  (19042706)
        556591.78   3777345.39      572.26195  (23091905)               556630.62
3777349.66      614.09226  (19122606)
        556684.29   3777349.43      678.42013  (20071506)               556905.58
3777351.19      592.72866  (18020118)
        556920.93   3777350.82      578.39617  (23122321)               556942.87
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3777350.09      518.88988  (23120518)
        556996.26   3777348.26      361.46583  (19120718)              557096.81
3777357.77      294.20077  (23122320)
        557115.83   3777363.62      275.71833  (23122320)              557129.36
3777361.43      266.44242  (23122320)
        557230.65   3777363.99      208.65070  (18120207)              556466.22
3776816.07      298.93185  (23010404)
        556407.87   3776826.19      301.16079  (19011501)              556381.07
3776807.14      294.37179  (19011501)
        556404.29   3776771.52      273.70496  (20111119)              556465.21
3776739.51      237.75721  (20111219)
        556396.10   3776739.93      259.64499  (23010404)              556323.99
3777265.43      385.99290  (18120319)
        556330.60   3777233.99      415.21832  (20020620)              556321.08
3777200.43      417.48392  (21100603)
        556275.11   3777267.81      344.44613  (19042702)              556278.28
3777233.46      368.99493  (20020620)
        556509.40   3777373.38      470.26657  (19042706)              556529.40
3777373.38      480.11684  (19042706)
        556549.40   3777373.38      481.86830  (23091905)              556569.40
3777373.38      503.60907  (21010318)
        556589.40   3777373.38      523.54295  (19122606)              556609.40
3777373.38      536.30667  (19042503)
        556629.40   3777373.38      553.68248  (21091605)              556649.40
3777373.38      573.70647  (19011118)
        556669.40   3777373.38      601.11720  (20071506)              556689.40
3777373.38      609.82675  (19050406)
        556709.40   3777373.38      618.86943  (19011704)              556729.40
3777373.38      608.36944  (19082804)
        556749.40   3777373.38      562.80618  (21091601)              556769.40
3777373.38      491.67727  (21091601)
        556789.40   3777373.38      446.77777  (21120318)              556809.40
3777373.38      456.38383  (19011407)
        556829.40   3777373.38      466.80043  (23091404)              556849.40
3777373.38      474.78515  (19121218)
        556869.40   3777373.38      501.47194  (18121306)              556889.40
3777373.38      512.11637  (23121718)
        556909.40   3777373.38      513.47925  (18020118)              556929.40
3777373.38      500.58721  (23122321)
        556949.40   3777373.38      466.99993  (23120518)              556969.40
3777373.38      378.78149  (20090303)
        556989.40   3777373.38      336.24228  (21020119)              557009.40
3777373.38      313.05765  (19120718)
        557029.40   3777373.38      290.33678  (19120718)              557049.40
3777373.38      261.20506  (21012207)
        557069.40   3777373.38      267.40997  (18110803)              557089.40
3777373.38      269.09789  (18110803)
        557109.40   3777373.38      265.60138  (23122320)              557129.40
3777373.38      258.12196  (23122320)
        557149.40   3777373.38      245.75543  (23122320)              557169.40
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3777373.38      230.32070  (23122320)
        557189.40   3777373.38      223.56325  (18120207)                557209.40
3777373.38      217.26998  (18120207)
        557229.40   3777373.38      208.13891  (18120207)                557249.40
3777373.38      197.17459  (18120207)
        557269.40   3777373.38      185.76175  (21122222)                557289.40
3777373.38      177.95463  (23122120)
        557309.40   3777373.38      172.20289  (23122120)                557329.40
3777373.38      164.87353  (23122120)
        557349.40   3777373.38      157.90497  (23122120)                557369.40
3777373.38      151.60889  (19011701)
        557389.40   3777373.38      146.06376  (19011701)                557409.40
3777373.38      140.22444  (19011701)
        557429.40   3777373.38      133.81338  (19011701)                557449.40
3777373.38      128.97062  (20013120)
        557469.40   3777373.38      124.40772  (20013120)                557489.40
3777373.38      119.06391  (20013120)
        556509.40   3777393.38      432.46700  (19042706)                556529.40
3777393.38      441.43326  (23091905)
        556549.40   3777393.38      461.15437  (21010318)                556569.40
3777393.38      474.29873  (19122606)
        556589.40   3777393.38      487.22568  (19042503)                556609.40
3777393.38      501.56782  (21091605)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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3777413.38      447.07103  (19042503)
        556589.40   3777413.38      460.64772  (21091605)                556609.40
3777413.38      476.93028  (19050706)
        556629.40   3777413.38      499.94943  (20071506)                556649.40
3777413.38      510.89611  (19050406)
        556669.40   3777413.38      501.82756  (21091102)                556689.40
3777413.38      515.70891  (20032007)
        556709.40   3777413.38      509.60919  (20032007)                556729.40
3777413.38      467.65899  (21091601)
        556749.40   3777413.38      407.79959  (21091601)                556769.40
3777413.38      370.50851  (21120318)
        556789.40   3777413.38      376.25256  (23122418)                556809.40
3777413.38      383.95473  (19011407)
        556829.40   3777413.38      391.47300  (23091404)                556849.40
3777413.38      395.00582  (18042404)
        556869.40   3777413.38      415.28735  (19121218)                556889.40
3777413.38      418.35078  (23121718)
        556909.40   3777413.38      406.92684  (19011703)                556929.40
3777413.38      418.51786  (18020118)
        556949.40   3777413.38      402.51284  (23122321)                556969.40
3777413.38      375.29653  (23120518)
        556989.40   3777413.38      313.75832  (20090303)                557009.40
3777413.38      271.33132  (21020119)
        557029.40   3777413.38      259.26254  (21020119)                557049.40
3777413.38      244.26998  (19120718)
        557069.40   3777413.38      229.93382  (19120718)                557089.40
3777413.38      208.76056  (19120718)
        557109.40   3777413.38      198.42260  (21012207)                557129.40
3777413.38      201.11730  (18110803)
        557149.40   3777413.38      205.10815  (18110803)                557169.40
3777413.38      203.18766  (18110803)
        557189.40   3777413.38      201.40568  (23122320)                557209.40
3777413.38      196.61727  (23122320)
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  72
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                 L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                 L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
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                 L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557229.40   3777413.38      188.21006  (23122320)               557249.40
3777413.38      177.82696  (23122320)
        557269.40   3777413.38      171.55079  (18120207)               557289.40
3777413.38      168.38627  (18120207)
        557309.40   3777413.38      163.51650  (18120207)               557329.40
3777413.38      157.07494  (18120207)
        557349.40   3777413.38      150.60568  (18120207)               557369.40
3777413.38      142.78626  (21122222)
        557389.40   3777413.38      136.98360  (23122120)               557409.40
3777413.38      133.72975  (23122120)
        557429.40   3777413.38      129.06041  (23122120)               557449.40
3777413.38      124.69980  (23122120)
        557469.40   3777413.38      120.19111  (23122120)               557489.40
3777413.38      115.56910  (19011701)
        556509.40   3777433.38      391.69629  (19122606)               556529.40
3777433.38      402.59418  (19122606)
        556549.40   3777433.38      409.04180  (19042503)               556569.40
3777433.38      420.82967  (21091605)
        556589.40   3777433.38      437.38386  (19050706)               556609.40
3777433.38      457.65820  (20071506)
        556629.40   3777433.38      473.72265  (19050406)               556649.40
3777433.38      465.92255  (19050406)
        556669.40   3777433.38      473.60579  (19011704)               556689.40
3777433.38      482.96569  (20032007)
        556709.40   3777433.38      455.06020  (20032007)               556729.40
3777433.38      406.64573  (21091601)
        556749.40   3777433.38      342.03772  (19011519)               556769.40
3777433.38      345.51626  (21120318)
        556789.40   3777433.38      348.33797  (23122418)               556809.40
3777433.38      353.11521  (19011407)
        556829.40   3777433.38      360.74905  (23091404)               556849.40
3777433.38      362.45317  (18042404)
        556869.40   3777433.38      380.10368  (19121218)               556889.40
3777433.38      381.61205  (21122017)
        556909.40   3777433.38      370.96906  (19011703)               556929.40
3777433.38      380.77412  (18020118)
        556949.40   3777433.38      370.12509  (23122321)               556969.40
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3777433.38      357.72506  (23120518)
        556989.40   3777433.38      316.73856  (23120518)                557009.40
3777433.38      262.73020  (20090303)
        557029.40   3777433.38      243.60320  (21020119)                557049.40
3777433.38      232.48766  (21020119)
        557069.40   3777433.38      219.67944  (19120718)                557089.40
3777433.38      207.71434  (19120718)
        557109.40   3777433.38      190.52225  (19120718)                557129.40
3777433.38      178.70694  (21012207)
        557149.40   3777433.38      175.38374  (18110803)                557169.40
3777433.38      179.94105  (18110803)
        557189.40   3777433.38      181.79864  (18110803)                557209.40
3777433.38      181.10057  (23122320)
        557229.40   3777433.38      178.47420  (23122320)                557249.40
3777433.38      174.33700  (23122320)
        557269.40   3777433.38      167.31350  (23122320)                557289.40
3777433.38      158.24557  (23122320)
        557309.40   3777433.38      152.75199  (18120207)                557329.40
3777433.38      150.19064  (18120207)
        557349.40   3777433.38      145.81629  (18120207)                557369.40
3777433.38      141.33255  (18120207)
        557389.40   3777433.38      136.91153  (18120207)                557409.40
3777433.38      131.02528  (18120207)
        557429.40   3777433.38      124.41617  (21122222)                557449.40
3777433.38      120.30065  (23122120)
        557469.40   3777433.38      117.36352  (23122120)                557489.40
3777433.38      113.97660  (23122120)
        556509.40   3777453.38      371.62230  (19122606)                556529.40
3777453.38      377.51730  (19042503)
        556549.40   3777453.38      390.56420  (21091605)                556569.40
3777453.38      402.13444  (19050706)
        556589.40   3777453.38      420.40928  (20071506)                556609.40
3777453.38      435.38051  (19050406)
        556629.40   3777453.38      437.48088  (19050406)                556649.40
3777453.38      439.35679  (21091102)
        556669.40   3777453.38      448.41977  (20032007)                556689.40
3777453.38      438.80936  (20032007)
        556709.40   3777453.38      399.02048  (19082804)                556729.40
3777453.38      346.44005  (21091601)
        556749.40   3777453.38      318.76066  (19011519)                556769.40
3777453.38      321.70812  (21120318)
        556789.40   3777453.38      323.31506  (19011407)                556809.40
3777453.38      326.19256  (19011407)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       11:21:34

                                  PAGE  73
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556829.40   3777453.38      335.62723  (23091404)               556849.40
3777453.38      337.43726  (18042404)
        556869.40   3777453.38      353.56028  (19121218)               556889.40
3777453.38      351.26279  (21122017)
        556909.40   3777453.38      345.01631  (23121718)               556929.40
3777453.38      345.57402  (18020118)
        556949.40   3777453.38      340.80117  (18020118)               556969.40
3777453.38      334.52470  (23120518)
        556989.40   3777453.38      312.35365  (23120518)               557009.40
3777453.38      266.70032  (23120518)
        557029.40   3777453.38      220.35813  (21020119)               557049.40
3777453.38      219.31749  (21020119)
        557069.40   3777453.38      208.94320  (21020119)               557089.40
3777453.38      198.66262  (19120718)
        557109.40   3777453.38      189.22083  (19120718)               557129.40
3777453.38      174.35378  (19120718)
        557149.40   3777453.38      162.67089  (21012207)               557169.40
3777453.38      156.58709  (21012207)
        557189.40   3777453.38      158.73125  (18110803)               557209.40
3777453.38      162.65726  (18110803)
        557229.40   3777453.38      162.66251  (18110803)               557249.40
3777453.38      162.42066  (23122320)
        557269.40   3777453.38      160.19920  (23122320)               557289.40
3777453.38      155.76140  (23122320)
        557309.40   3777453.38      150.05509  (23122320)               557329.40
3777453.38      142.54645  (23122320)
        557349.40   3777453.38      136.81160  (18120207)               557369.40
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3777453.38      134.63891  (18120207)
        557389.40   3777453.38      132.19395  (18120207)              557409.40
3777453.38      129.39910  (18120207)
        557429.40   3777453.38      124.96282  (18120207)              557449.40
3777453.38      119.90951  (18120207)
        557469.40   3777453.38      114.41779  (21122222)              557489.40
3777453.38      109.41667  (21122222)
        556509.40   3777473.38      349.65959  (19042503)              556529.40
3777473.38      360.32371  (23123121)
        556549.40   3777473.38      370.83153  (19050706)              556569.40
3777473.38      389.02309  (19011118)
        556589.40   3777473.38      401.38253  (19050406)              556609.40
3777473.38      405.67393  (19050406)
        556629.40   3777473.38      403.19425  (21091102)              556649.40
3777473.38      413.31864  (20032007)
        556669.40   3777473.38      416.03444  (20032007)              556689.40
3777473.38      390.07262  (20032007)
        556709.40   3777473.38      345.32133  (19082804)              556729.40
3777473.38      292.42641  (19011519)
        556749.40   3777473.38      294.08163  (19011519)              556769.40
3777473.38      299.42408  (21120318)
        556789.40   3777473.38      301.97504  (19011407)              556809.40
3777473.38      302.44891  (19120423)
        556829.40   3777473.38      311.44088  (23091404)              556849.40
3777473.38      314.51798  (18042404)
        556869.40   3777473.38      328.93397  (19121218)              556889.40
3777473.38      325.58981  (21122017)
        556909.40   3777473.38      322.67261  (23121718)              556929.40
3777473.38      317.70079  (18020118)
        556949.40   3777473.38      321.06271  (18020118)              556969.40
3777473.38      312.73302  (23122321)
        556989.40   3777473.38      302.25344  (23120518)              557009.40
3777473.38      272.27734  (23120518)
        557029.40   3777473.38      229.13870  (20090303)              557049.40
3777473.38      202.18865  (21020119)
        557069.40   3777473.38      200.14880  (21020119)              557089.40
3777473.38      189.61376  (21020119)
        557109.40   3777473.38      181.32470  (19120718)              557129.40
3777473.38      172.80601  (19120718)
        557149.40   3777473.38      161.02289  (19120718)              557169.40
3777473.38      147.86312  (20092604)
        557189.40   3777473.38      144.20470  (21012207)              557209.40
3777473.38      140.45608  (18110803)
        557229.40   3777473.38      144.89775  (18110803)              557249.40
3777473.38      147.50660  (18110803)
        557269.40   3777473.38      147.09014  (18110803)              557289.40
3777473.38      146.41165  (23122320)
        557309.40   3777473.38      144.57016  (23122320)              557329.40
3777473.38      140.98104  (23122320)
        557349.40   3777473.38      135.58420  (23122320)              557369.40
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3777473.38   129.17100 (23122320)
        557389.40   3777473.38   123.33805 (18120207)   557409.40
3777473.38   122.66205 (18120207)
 *** AERMOD - VERSION 24142 ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   11:21:34

                                 PAGE 74
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ONSITE   ***
                                 INCLUDING SOURCE(S):   L0000088   , L0000089
, L0000090   , L0000091   , L0000092   ,
                  L0000093   , L0000094   , L0000095   , L0000096   , L0000097
, L0000098   , L0000099   , L0000100   ,
                  L0000101   , L0000102   , L0000103   , L0000104   , L0000105
, L0000106   , L0000107   , L0000108   ,
                  L0000109   , L0000110   , L0000111   , L0000112   , L0000113
, L0000114   , L0000115   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        557429.40   3777473.38   120.47294 (18120207)   557449.40
3777473.38   118.24163 (18120207)
        557469.40   3777473.38   114.55292 (18120207)   557489.40
3777473.38   110.16810 (18120207)
        556509.40   3777493.38   338.18714 (23123121)   556529.40
3777493.38   347.62700 (19050706)
        556549.40   3777493.38   361.97510 (19011118)   556569.40
3777493.38   368.60558 (19050406)
        556589.40   3777493.38   376.00731 (19050406)   556609.40
3777493.38   369.73940 (19042604)
        556629.40   3777493.38   378.33843 (21091102)   556649.40
3777493.38   388.32340 (20032007)
        556669.40   3777493.38   378.97975 (20032007)   556689.40
3777493.38   343.37223 (20032007)
        556709.40   3777493.38   294.39808 (21091601)   556729.40
3777493.38   276.16530 (19011519)
        556749.40   3777493.38   274.62213 (21120318)   556769.40

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3777493.38      280.88612  (23122418)
        556789.40   3777493.38      282.96275  (19011407)              556809.40
3777493.38      280.45851  (19120423)
        556829.40   3777493.38      290.65711  (23091404)              556849.40
3777493.38      292.58040  (18042404)
        556869.40   3777493.38      305.71158  (19121218)              556889.40
3777493.38      303.69427  (21011317)
        556909.40   3777493.38      302.44745  (23121718)              556929.40
3777493.38      295.67011  (19011703)
        556949.40   3777493.38      299.93171  (18020118)              556969.40
3777493.38      288.51501  (23122321)
        556989.40   3777493.38      287.06033  (23120518)              557009.40
3777493.38      270.31636  (23120518)
        557029.40   3777493.38      235.08321  (23120518)              557049.40
3777493.38      196.45768  (20090303)
        557069.40   3777493.38      186.49064  (21020119)              557089.40
3777493.38      182.85635  (21020119)
        557109.40   3777493.38      173.65068  (21020119)              557129.40
3777493.38      166.06787  (19120718)
        557149.40   3777493.38      159.34101  (19120718)              557169.40
3777493.38      148.69130  (19120718)
        557189.40   3777493.38      136.19585  (20092604)              557209.40
3777493.38      133.13455  (21012207)
        557229.40   3777493.38      128.44439  (21012207)              557249.40
3777493.38      129.47283  (18110803)
        557269.40   3777493.38      132.89897  (18110803)              557289.40
3777493.38      134.14378  (18110803)
        557309.40   3777493.38      133.34768  (18110803)              557329.40
3777493.38      133.12026  (23122320)
        557349.40   3777493.38      131.29065  (23122320)              557369.40
3777493.38      127.83658  (23122320)
        557389.40   3777493.38      123.38891  (23122320)              557409.40
3777493.38      117.89863  (23122320)
        557429.40   3777493.38      111.80665  (18120207)              557449.40
3777493.38      111.49799  (18120207)
        557469.40   3777493.38      110.45924  (18120207)              557489.40
3777493.38      108.15852  (18120207)
        556509.40   3777513.38      323.74364  (19050706)              556529.40
3777513.38      336.99494  (19011118)
        556549.40   3777513.38      343.02005  (19050406)              556569.40
3777513.38      356.75380  (19050406)
        556589.40   3777513.38      348.36137  (19050406)              556609.40
3777513.38      354.46325  (21091102)
        556629.40   3777513.38      365.39871  (20032007)              556649.40
3777513.38      364.24185  (20032007)
        556669.40   3777513.38      340.43993  (20032007)              556689.40
3777513.38      297.05472  (19082804)
        556709.40   3777513.38      251.09526  (19011519)              556729.40
3777513.38      259.24219  (19011519)
        556749.40   3777513.38      260.18857  (21120318)              556769.40
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3777513.38      264.49918  (23122418)
        556789.40   3777513.38      266.64198  (19011407)                556809.40
3777513.38      261.52184  (19120423)
        556829.40   3777513.38      271.58646  (23091404)                556849.40
3777513.38      273.12848  (18042404)
        556869.40   3777513.38      284.83717  (19121218)                556889.40
3777513.38      283.94392  (21011317)
        556909.40   3777513.38      282.69305  (21122017)                556929.40
3777513.38      275.63815  (19011703)
        556949.40   3777513.38      279.16781  (18020118)                556969.40
3777513.38      274.09283  (18020118)
        556989.40   3777513.38      270.17237  (23122321)                557009.40
3777513.38      262.12677  (23120518)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557029.40   3777513.38      237.98085  (23120518)                557049.40
3777513.38      204.37113  (20090303)
        557069.40   3777513.38      169.74311  (21020119)                557089.40
3777513.38      171.91995  (21020119)
        557109.40   3777513.38      168.30024  (21020119)                557129.40
3777513.38      159.10641  (21020119)
        557149.40   3777513.38      153.24390  (19120718)                557169.40
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3777513.38      147.33507  (19120718)
        557189.40   3777513.38      137.91236  (19120718)              557209.40
3777513.38      127.13304  (19120718)
        557229.40   3777513.38      122.84298  (21012207)              557249.40
3777513.38      119.91178  (21012207)
        557269.40   3777513.38      115.94524  (18110803)              557289.40
3777513.38      119.81554  (18110803)
        557309.40   3777513.38      122.25673  (18110803)              557329.40
3777513.38      122.94501  (18110803)
        557349.40   3777513.38      122.42224  (23122320)              557369.40
3777513.38      121.74609  (23122320)
        557389.40   3777513.38      119.98481  (23122320)              557409.40
3777513.38      117.07439  (23122320)
        557429.40   3777513.38      112.62710  (23122320)              557449.40
3777513.38      107.61810  (23122320)
        557469.40   3777513.38      102.47594  (18120207)              557489.40
3777513.38      102.28510  (18120207)
        556509.40   3777533.38      315.57477  (19011118)              556529.40
3777533.38      321.98366  (20071506)
        556549.40   3777533.38      332.09791  (19050406)              556569.40
3777533.38      327.73328  (19050406)
        556589.40   3777533.38      330.09162  (21091102)              556609.40
3777533.38      335.42535  (20032007)
        556629.40   3777533.38      343.52753  (20032007)              556649.40
3777533.38      330.44390  (20032007)
        556669.40   3777533.38      296.38085  (20032007)              556689.40
3777533.38      252.36174  (19082804)
        556709.40   3777533.38      239.67786  (19011519)              556729.40
3777533.38      241.98309  (19011519)
        556749.40   3777533.38      246.07224  (21120318)              556769.40
3777533.38      248.00816  (23122418)
        556789.40   3777533.38      251.20181  (19011407)              556809.40
3777533.38      246.21064  (23091404)
        556829.40   3777533.38      255.99442  (23102701)              556849.40
3777533.38      255.97213  (18042404)
        556869.40   3777533.38      265.85311  (19121218)              556889.40
3777533.38      266.86808  (19121218)
        556909.40   3777533.38      266.81709  (21122017)              556929.40
3777533.38      256.43769  (19011703)
        556949.40   3777533.38      258.34679  (18020118)              556969.40
3777533.38      259.28510  (18020118)
        556989.40   3777533.38      251.95714  (23122321)              557009.40
3777533.38      249.64071  (23120518)
        557029.40   3777533.38      235.43083  (23120518)              557049.40
3777533.38      208.42441  (23120518)
        557069.40   3777533.38      177.92857  (20090303)              557089.40
3777533.38      158.27236  (21020119)
        557109.40   3777533.38      159.45008  (21020119)              557129.40
3777533.38      155.69530  (21020119)
        557149.40   3777533.38      147.28015  (21020119)              557169.40
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3777533.38      141.79277  (19120718)
        557189.40   3777533.38      136.51552  (19120718)                557209.40
3777533.38      129.18116  (19120718)
        557229.40   3777533.38      118.84104  (19120718)                557249.40
3777533.38      114.04404  (21012207)
        557269.40   3777533.38      111.70345  (21012207)                557289.40
3777533.38      107.91969  (21012207)
        557309.40   3777533.38      108.29595  (18110803)                557329.40
3777533.38      111.34233  (18110803)
        557349.40   3777533.38      112.96411  (18110803)                557369.40
3777533.38      113.00430  (18110803)
        557389.40   3777533.38      112.36730  (23122320)                557409.40
3777533.38      112.02014  (23122320)
        557429.40   3777533.38      110.13217  (23122320)                557449.40
3777533.38      107.38183  (23122320)
        557469.40   3777533.38      103.41273  (23122320)                557489.40
3777533.38       98.91597  (23122320)
        556509.40   3777553.38      302.57185  (20071506)                556529.40
3777553.38      312.57106  (19050406)
        556549.40   3777553.38      310.15496  (19050406)                556569.40
3777553.38      308.20940  (21091102)
        556589.40   3777553.38      314.99278  (21091102)                556609.40
3777553.38      322.63436  (20032007)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
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3776929.14      512.04363  (19020324)
        556692.35   3776929.14      483.39354  (23111719)                556712.35
3776929.14      487.92525  (20110318)
        556732.35   3776929.14      532.60119  (20050906)                556752.35
3776929.14      570.58639  (20050906)
        556772.35   3776929.14      552.74465  (20050906)                556792.35
3776929.14      526.29683  (19122218)
        556812.35   3776929.14      523.13508  (20092605)                556832.35
3776929.14      530.68863  (18120320)
        556852.35   3776929.14      518.69383  (23012120)                556672.35
3776949.14      544.23293  (19020324)
        556692.35   3776949.14      544.15468  (19020324)                556712.35
3776949.14      506.86781  (23111719)
        556732.35   3776949.14      539.43580  (20050906)                556752.35
3776949.14      602.60769  (20050906)
        556772.35   3776949.14      611.07182  (20050906)                556792.35
3776949.14      565.49663  (19122218)
        556812.35   3776949.14      560.92843  (20092605)                556832.35
3776949.14      563.46699  (18120320)
        556852.35   3776949.14      551.92786  (23012120)                556672.35
3776969.14      556.28577  (19020324)
        556692.35   3776969.14      590.29231  (19020324)                556712.35
3776969.14      572.80035  (19020324)
        556732.35   3776969.14      562.50863  (20110318)                556752.35
3776969.14      627.89677  (20050906)
        556772.35   3776969.14      662.22951  (20050906)                556792.35
3776969.14      612.28158  (20050906)
        556812.35   3776969.14      598.48947  (20092605)                556832.35
3776969.14      600.32744  (18120320)
        556852.35   3776969.14      588.61685  (23012120)                556672.35
3776989.14      589.17148  (21010719)
        556692.35   3776989.14      614.19551  (19020324)                556712.35
3776989.14      639.07469  (19020324)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                 L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                 L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
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                 L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556732.35   3776989.14      604.11529  (23111719)               556752.35
3776989.14      648.22455  (20050906)
        556772.35   3776989.14      709.71856  (20050906)               556792.35
3776989.14      693.16276  (20050906)
        556812.35   3776989.14      643.33502  (20092605)               556832.35
3776989.14      638.34226  (18120320)
        556852.35   3776989.14      628.62702  (23012120)               556672.35
3777009.14      623.77560  (20111219)
        556692.35   3777009.14      639.24968  (21010719)               556712.35
3777009.14      681.58335  (19020324)
        556732.35   3777009.14      686.68261  (19020324)               556752.35
3777009.14      663.48886  (20050906)
        556772.35   3777009.14      753.40068  (20050906)               556792.35
3777009.14      766.59046  (20050906)
        556812.35   3777009.14      698.31096  (19072803)               556832.35
3777009.14      677.77756  (18120320)
        556852.35   3777009.14      680.31855  (21091606)               556672.35
3777029.14      654.72995  (23010404)
        556692.35   3777029.14      683.38059  (20111219)               556712.35
3777029.14      698.74291  (21010719)
        556732.35   3777029.14      754.52459  (19020324)               556752.35
3777029.14      731.12118  (23111719)
        556772.35   3777029.14      794.37722  (20050906)               556792.35
3777029.14      835.80254  (20050906)
        556812.35   3777029.14      776.00914  (20050906)               556832.35
3777029.14      734.92788  (18092724)
        556852.35   3777029.14      737.54698  (21091606)               556672.35
3777049.14      676.22964  (19011501)
        556692.35   3777049.14      720.27758  (23010404)               556712.35
3777049.14      758.57203  (20111219)
        556732.35   3777049.14      791.47085  (19020324)               556752.35
3777049.14      829.85183  (19020324)
        556772.35   3777049.14      835.73304  (20050906)               556792.35
3777049.14      902.13887  (20050906)
        556812.35   3777049.14      876.56273  (20050906)               556832.35
3777049.14      799.92533  (18092724)
        556852.35   3777049.14      795.88261  (21091606)               556927.54
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3776959.53      548.05652  (21010819)
        556947.54   3776959.53      549.11887  (21091306)                556967.54
3776959.53      533.32654  (21012124)
        556987.54   3776959.53      475.40589  (21012124)                557007.54
3776959.53      391.73995  (21012206)
        557027.54   3776959.53      301.73537  (23111604)                557047.54
3776959.53      213.89081  (23111604)
        557067.54   3776959.53      138.93345  (23111604)                557087.54
3776959.53      108.47921  (21011318)
        556927.54   3776979.53      590.41325  (21091306)                556947.54
3776979.53      590.28322  (21012124)
        556967.54   3776979.53      546.04988  (21012124)                556987.54
3776979.53      461.71243  (21012206)
        557007.54   3776979.53      360.14593  (23111604)                557027.54
3776979.53      260.53456  (23111604)
        557047.54   3776979.53      172.15535  (23111604)                557067.54
3776979.53      124.75178  (19020905)
        557087.54   3776979.53      131.34004  (19020905)                556927.54
3776999.53      649.44269  (21091306)
        556947.54   3776999.53      621.83703  (21012124)                556967.54
3776999.53      542.45522  (21012206)
        556987.54   3776999.53      433.98019  (21012206)                557007.54
3776999.53      318.12555  (21012206)
        557027.54   3776999.53      214.03981  (23111604)                557047.54
3776999.53      147.29502  (19020905)
        557067.54   3776999.53      153.75968  (19020905)                557087.54
3776999.53      157.45107  (19020905)
        556927.54   3777019.53      699.36365  (21012206)                556947.54
3777019.53      635.90553  (21012206)
        556967.54   3777019.53      523.07448  (21012206)                556987.54
3777019.53      392.35448  (21012206)
        557007.54   3777019.53      268.46732  (21012206)                557027.54
3777019.53      175.90646  (19020905)
        557047.54   3777019.53      181.64935  (19020905)                557067.54
3777019.53      183.66717  (19020905)
        557087.54   3777019.53      182.42592  (19020905)                556927.54
3777039.53      736.54602  (21012206)
        556947.54   3777039.53      630.94390  (21012206)                556967.54
3777039.53      485.49307  (21012206)
        556987.54   3777039.53      338.82514  (21012206)                557007.54
3777039.53      214.62320  (21012206)
        557027.54   3777039.53      216.90524  (19020905)                557047.54
3777039.53      215.81355  (19020905)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       11:21:34

                                PAGE  78
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557067.54   3777039.53      210.79578  (19020905)               557087.54
3777039.53      202.91591  (19020905)
        557047.54   3777059.53      245.46213  (19020905)               557067.54
3777059.53      231.07000  (19020905)
        557087.54   3777059.53      217.10772  (21122318)               556919.02
3777174.93      926.52291  (19120324)
        556939.02   3777174.93      813.96047  (19120324)               556919.02
3777194.93     1026.74576  (19120324)
        556939.02   3777194.93      888.60157  (19120324)               556919.02
3777214.93     1102.77479  (18022205)
        556939.02   3777214.93      933.58195  (18022205)               556919.02
3777234.93     1177.57935  (20013120)
        556939.02   3777234.93      958.56823  (20013120)               556919.02
3777254.93     1104.01386  (21122222)
        556939.02   3777254.93      934.53642  (21122222)               557023.57
3777171.57      493.22499  (19120324)
        557043.57   3777171.57      449.56409  (19120324)               557063.57
3777171.57      410.90271  (19120324)
        557083.57   3777171.57      378.29454  (19120324)               557023.57
3777191.57      547.15054  (19120324)
        557043.57   3777191.57      495.23773  (19120324)               557063.57
3777191.57      449.88306  (19120324)
        557083.57   3777191.57      412.74137  (19120324)               557023.57
3777211.57      550.82018  (23010407)
        557043.57   3777211.57      499.59907  (23010407)               557063.57
3777211.57      455.23672  (23010407)
        557083.57   3777211.57      411.90258  (23010407)               557023.57
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3777231.57      551.84425  (21123002)
        557043.57   3777231.57      500.54096  (20121124)              557063.57
3777231.57      456.42476  (20121124)
        557083.57   3777231.57      407.06800  (20121124)              557023.57
3777251.57      544.90981  (20013120)
        557043.57   3777251.57      490.54968  (20013120)              557063.57
3777251.57      450.64338  (21123002)
        557083.57   3777251.57      400.04707  (21123002)              556249.05
3776972.85      344.96885  (19113019)
        556269.05   3776972.85      376.72126  (19113019)              556229.05
3776992.85      333.17527  (19122921)
        556249.05   3776992.85      345.72967  (19122921)              556269.05
3776992.85      346.85846  (23092902)
        556289.05   3776992.85      381.27162  (19113019)              556309.05
3776992.85      416.97985  (19113019)
        556329.05   3776992.85      455.56140  (19020201)              556209.05
3777012.85      324.56876  (19122921)
        556229.05   3777012.85      357.20768  (19122921)              556249.05
3777012.85      374.92915  (19122921)
        556269.05   3777012.85      385.89311  (19122921)              556289.05
3777012.85      390.73809  (19122921)
        556309.05   3777012.85      395.41809  (19122921)              556329.05
3777012.85      410.69766  (19113019)
        556209.05   3777032.85      328.25929  (21101420)              556229.05
3777032.85      342.41413  (21101420)
        556249.05   3777032.85      368.76961  (19122921)              556269.05
3777032.85      390.93669  (19122921)
        556289.05   3777032.85      410.30723  (19122921)              556309.05
3777032.85      426.40697  (19122921)
        556209.05   3777052.85      333.41944  (18123019)              556229.05
3777052.85      349.49946  (18123019)
        556249.05   3777052.85      363.38585  (21101420)              556269.05
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        556289.05   3777052.85      395.23987  (21101420)              556309.05
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3777072.85      379.25240  (18123019)
        556289.05   3777072.85      400.67572  (18123019)              556269.05
3777092.85      371.47432  (20041705)
        556441.69   3776927.49      409.84174  (20073101)              556461.69
3776927.49      404.94383  (20073101)
        556481.69   3776927.49      382.58612  (20073101)              556421.69
3776947.49      453.51088  (20072505)
        556441.69   3776947.49      444.09200  (20072505)              556461.69
3776947.49      438.22986  (20073101)
        556481.69   3776947.49      428.39074  (20073101)              556401.69
3776967.49      493.14506  (21120418)
        556421.69   3776967.49      497.82544  (21120418)              556441.69
3776967.49      478.88349  (21120418)
        556461.69   3776967.49      477.12800  (20072505)              556481.69
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3776967.49      466.54551  (20072505)
        556401.69   3776987.49      502.38994  (19120424)                556421.69
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 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556441.69   3776987.49      535.92199  (21120418)                556461.69
3776987.49      528.87997  (21120418)
        556481.69   3776987.49      522.49559  (20072505)                556421.69
3777007.49      528.47139  (19120424)
        556441.69   3777007.49      551.91500  (19120424)                556461.69
3777007.49      573.24447  (21120418)
        556481.69   3777007.49      582.70664  (21120418)                556441.69
3777027.49      575.46049  (19020201)
        556461.69   3777027.49      589.91839  (19120424)                556481.69
3777027.49      616.62417  (21120418)
        556251.24   3777154.95      376.07375  (19011408)                556261.28
3777141.20      384.23833  (19081106)
        556264.98   3777168.16      383.89226  (21120218)                556279.25
3777151.77      402.29838  (19011408)
        556202.60   3777113.45      334.06703  (23111620)                556220.05
3777109.75      347.51006  (23111620)
        556187.53   3777090.19      317.83788  (19112020)                556164.27
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3777121.38      309.95069  (19081106)
        557510.26   3776508.23       91.48439  (19062905)                557530.26
3776508.23       89.86932  (19062905)
        557550.26   3776508.23       86.83634  (19062905)                557570.26
3776508.23       82.68947  (19062905)
        557590.26   3776508.23       77.83525  (19062905)                557610.26
3776508.23       72.47639  (19062905)
        557630.26   3776508.23       70.96742  (21011318)                557650.26
3776508.23       72.95917  (21011318)
        557670.26   3776508.23       73.88029  (21011318)                557690.26
3776508.23       73.79600  (21011318)
        557510.26   3776528.23       91.89970  (19062905)                557530.26
3776528.23       88.69105  (19062905)
        557550.26   3776528.23       84.44305  (19062905)                557570.26
3776528.23       79.06247  (19062905)
        557590.26   3776528.23       73.39573  (19062905)                557610.26
3776528.23       73.06966  (21011318)
        557630.26   3776528.23       74.87975  (21011318)                557650.26
3776528.23       75.94765  (21011318)
        557670.26   3776528.23       75.62883  (21011318)                557690.26
3776528.23       74.70957  (21011318)
        557510.26   3776548.23       90.21405  (19062905)                557530.26
3776548.23       86.03863  (19062905)
        557550.26   3776548.23       80.18510  (19062905)                557570.26
3776548.23       74.00657  (19062905)
        557590.26   3776548.23       74.81166  (21011318)                557610.26
3776548.23       76.23388  (21011318)
        557630.26   3776548.23       76.95169  (21011318)                557650.26
3776548.23       77.01391  (21011318)
        557670.26   3776548.23       75.81579  (21011318)                557690.26
3776548.23       74.08109  (21011318)
        557510.26   3776568.23       86.96568  (19062905)                557530.26
3776568.23       81.59685  (19062905)
        557550.26   3776568.23       75.14510  (19062905)                557570.26
3776568.23       76.31500  (21011318)
        557590.26   3776568.23       77.44957  (21011318)                557610.26
3776568.23       77.71590  (21011318)
        557630.26   3776568.23       77.31379  (21011318)                557650.26
3776568.23       76.48681  (21011318)
        557670.26   3776568.23       74.34147  (21011318)                557690.26
3776568.23       71.55939  (21011318)
        557510.26   3776588.23       82.24777  (19062905)                557530.26
3776588.23       77.21974  (21011318)
        557550.26   3776588.23       78.52198  (21011318)                557570.26
3776588.23       78.53134  (21011318)
        557590.26   3776588.23       78.13350  (21011318)                557610.26
3776588.23       77.29234  (21011318)
        557630.26   3776588.23       76.25976  (21011318)                557650.26
3776588.23       74.36347  (21011318)
        557670.26   3776588.23       71.62954  (21011318)                557690.26
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3776588.23       68.34618  (21011318)
        557510.26   3776608.23       78.56919  (21011318)                557530.26
3776608.23       80.23796  (21011318)
        557550.26   3776608.23       80.18937  (21011318)                557570.26
3776608.23       79.19038  (21011318)
        557590.26   3776608.23       77.37944  (21011318)                557610.26
3776608.23       75.53392  (21011318)
        557630.26   3776608.23       73.59389  (21011318)                557650.26
3776608.23       70.80679  (21011318)
        557670.26   3776608.23       67.31651  (21011318)                557690.26
3776608.23       63.99493  (23102404)
        557510.26   3776628.23       81.03780  (21011318)                557530.26
3776628.23       81.28660  (21011318)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                 L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                 L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                 L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557550.26   3776628.23       79.79829  (21011318)                557570.26
3776628.23       78.83759  (21011318)
        557590.26   3776628.23       75.25895  (21011318)                557610.26
3776628.23       72.50906  (21011318)
        557630.26   3776628.23       69.51619  (21011318)                557650.26
3776628.23       66.33673  (21011318)
        557670.26   3776628.23       63.46289  (23102404)                557690.26
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3776628.23       61.82629  (23102404)
        557510.26   3776648.23       81.48390  (21011318)              557530.26
3776648.23       80.06049  (21011318)
        557550.26   3776648.23       77.49804  (21011318)              557570.26
3776648.23       69.41707  (21011318)
        557590.26   3776648.23       67.04918  (21011318)              557610.26
3776648.23       63.58850  (21011318)
        557630.26   3776648.23       60.89657  (21011318)              557650.26
3776648.23       59.32004  (18120608)
        557670.26   3776648.23       58.13674  (19020905)              557690.26
3776648.23       61.81044  (19020905)
        557510.26   3776668.23       71.56882  (21011318)              557530.26
3776668.23       67.76211  (21011318)
        557550.26   3776668.23       64.25129  (21011318)              557570.26
3776668.23       59.81815  (21011318)
        557590.26   3776668.23       59.53970  (21011318)              557610.26
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        557630.26   3776668.23       51.65848  (21011318)              557650.26
3776668.23       53.36746  (19020905)
        557670.26   3776668.23       55.68756  (19020905)              557690.26
3776668.23       58.70773  (19020905)
        557510.26   3776688.23       62.12004  (21011318)              557530.26
3776688.23       59.27903  (21011318)
        557550.26   3776688.23       53.19539  (21011318)              557570.26
3776688.23       50.86941  (21011318)
        557590.26   3776688.23       48.45751  (21011318)              557610.26
3776688.23       45.78096  (19020905)
        557630.26   3776688.23       48.74599  (19020905)              557650.26
3776688.23       51.19559  (19020905)
        557670.26   3776688.23       52.57250  (19020905)              557690.26
3776688.23       53.61129  (19020905)
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        556212.49   3776517.81      170.36124  (23010404)              556232.49
3776517.81      169.08407  (20111219)
        556252.49   3776517.81      166.73269  (20111219)              556272.49
3776517.81      162.26438  (20111219)
        556292.49   3776517.81      160.70320  (21010719)              556312.49
3776517.81      160.12361  (18102919)
        556332.49   3776517.81      156.49116  (18102919)              556352.49
3776517.81      161.53949  (19020324)
        556372.49   3776517.81      159.45641  (19020324)              556392.49
3776517.81      160.61081  (19020324)
        556412.49   3776517.81      155.79948  (23111719)              556432.49
3776517.81      160.32799  (23071306)
        556452.49   3776517.81      161.05621  (23071306)              556472.49
3776517.81      157.19131  (23071306)
        556492.49   3776517.81      144.04950  (23071306)              556172.49
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3776537.81      178.95943  (23010404)
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3776537.81      165.58057  (20111219)
        556312.49   3776537.81      165.16615  (18102919)                556332.49
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3776537.81      165.19768  (19020324)
        556392.49   3776537.81      162.49861  (19020324)                556412.49
3776537.81      160.73617  (19020324)
        556432.49   3776537.81      160.80845  (23071306)                556452.49
3776537.81      165.12603  (23071306)
        556472.49   3776537.81      166.08898  (23071306)                556492.49
3776537.81      157.90014  (23071306)
        556332.49   3776557.81      174.80079  (18102919)                556352.49
3776557.81      168.67776  (18102919)
        556372.49   3776557.81      168.74493  (19020324)                556392.49
3776557.81      171.27558  (19020324)
        556412.49   3776557.81      173.69157  (19020324)                556432.49
3776557.81      165.96043  (23111719)
        556452.49   3776557.81      167.63200  (23071306)                556472.49
3776557.81      172.19889  (23071306)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                  INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
                  L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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3776657.81      223.92306  (23010404)
        556352.49   3776657.81      222.95185  (20111219)                556372.49
3776657.81      223.66667  (20111219)
        556392.49   3776657.81      209.73934  (20111219)                556412.49
3776657.81      205.59189  (18102919)
        556432.49   3776657.81      200.76690  (18102919)                556452.49
3776657.81      205.52587  (19020324)
        556472.49   3776657.81      207.94988  (19020324)                556492.49
3776657.81      204.40192  (19020324)
        556252.49   3776677.81      229.68965  (19011501)                556272.49
3776677.81      222.46279  (20111119)
        556292.49   3776677.81      230.96955  (20111119)                556312.49
3776677.81      232.73694  (20111119)
        556332.49   3776677.81      233.59069  (23010404)                556352.49
3776677.81      234.85840  (23010404)
        556372.49   3776677.81      232.16524  (20111219)                556392.49
3776677.81      226.42712  (20111219)
        556412.49   3776677.81      217.65120  (20111219)                556432.49
3776677.81      211.27380  (18102919)
        556452.49   3776677.81      204.79960  (19020324)                556472.49
3776677.81      214.87192  (19020324)
        556492.49   3776677.81      217.87800  (19020324)                556252.49
3776697.81      244.68993  (19011501)
        556272.49   3776697.81      236.86221  (19011501)                556372.49
3776697.81      243.27151  (23010404)
        556392.49   3776697.81      234.23032  (20111219)                556412.49
3776697.81      232.73005  (20111219)
        556432.49   3776697.81      219.48013  (21010719)                556452.49
3776697.81      215.06703  (18102919)
        556472.49   3776697.81      215.31345  (19020324)                556492.49
3776697.81      226.08345  (19020324)
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ONSITE   ***
                                 INCLUDING SOURCE(S):     L0000088    , L0000089
, L0000090    , L0000091    , L0000092    ,
                  L0000093    , L0000094    , L0000095    , L0000096    , L0000097
, L0000098    , L0000099    , L0000100    ,
                  L0000101    , L0000102    , L0000103    , L0000104    , L0000105
, L0000106    , L0000107    , L0000108    ,
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                 L0000109    , L0000110    , L0000111    , L0000112    , L0000113
, L0000114    , L0000115    ,  . . .      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556252.49   3776717.81      245.06730  (19011501)                556272.49
3776717.81      250.53263  (19011501)
        556372.49   3776717.81      254.34910  (23010404)                556392.49
3776717.81      243.92478  (23010404)
        556412.49   3776717.81      244.07442  (20111219)                556432.49
3776717.81      237.05357  (20111219)
        556452.49   3776717.81      223.74940  (21010719)                556472.49
3776717.81      228.78114  (18102919)
        556492.49   3776717.81      229.43843  (19020324)                556267.40
3776875.81      369.60235  (21120418)
        556239.03   3776853.02      346.09413  (21120418)                556178.76
3776751.21      267.43688  (20072505)
        556154.45   3776774.51      277.72950  (20072505)                556119.50
3776705.11      240.19665  (20073101)
        556146.51   3777267.93      268.04731  (19042702)                556151.00
3777234.88      280.47172  (20020620)
        556144.93   3777179.58      279.30852  (23071605)                556205.18
3777236.46      313.81542  (20020620)
        556218.00   3777200.04      325.94455  (21110618)                556772.00
3777345.97      600.66931  (21091601)
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                   PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                 L0000120    , L0000121    , L0000122    ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556521.71	3777341.57	516.25003	(19011118)	556539.90	3777344.94	547.81582	(19050406)
556591.78	3777345.39	485.61966	(20032007)	556630.62	3777349.66	554.64234	(18122318)
556684.29	3777349.43	687.02156	(18112718)	556905.58	3777351.19	1344.50576	(19121218)
556920.93	3777350.82	1391.55367	(23121718)	556942.87	3777350.09	1416.14619	(23120518)
556996.26	3777348.26	930.53868	(18110803)	557096.81	3777357.77	512.93596	(23122120)
557115.83	3777363.62	457.40864	(23122120)	557129.36	3777361.43	431.85052	(23122120)
557230.65	3777363.99	280.92515	(20013120)	556466.22	3776816.07	215.60696	(20090403)
556407.87	3776826.19	239.42752	(19020324)	556381.07	3776807.14	210.50105	(18102919)
556404.29	3776771.52	194.67827	(23111719)	556465.21	3776739.51	169.26862	(20110318)
556396.10	3776739.93	175.75994	(23111719)	556323.99	3777265.43	312.03643	(20020620)
556330.60	3777233.99	381.35091	(19011408)	556321.08	3777200.43	456.45245	(19011408)
556275.11	3777267.81	285.05536	(20020620)	556278.28	3777233.46	327.64946	(18120606)
556509.40	3777373.38	439.14947	(19050406)	556529.40	3777373.38	440.26004	(19042604)
556549.40	3777373.38	477.57944	(20032007)	556569.40	3777373.38	440.78746	(20032007)
556589.40	3777373.38	448.78574	(19042704)	556609.40	3777373.38	482.50758	(18112718)
556629.40	3777373.38	517.83782	(19111119)	556649.40	3777373.38	563.70229	(23022020)
556669.40	3777373.38	619.27050	(23022020)	556689.40	3777373.38	676.91975	(21052306)
556709.40	3777373.38	735.77108	(23050706)	556729.40	3777373.38	804.10060	(19042706)
556749.40	3777373.38	924.92824	(19042706)	556769.40	3777373.38	971.45880	(19042706)
556789.40	3777373.38	1060.23581	(19122606)	556809.40	3777373.38	1127.54276	(21091605)
556829.40	3777373.38	1223.72008	(19050406)	556849.40	3777373.38	1246.41588	(19011704)

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        556869.40   3777373.38     1132.83099  (21091601)               556889.40
3777373.38     1005.90855  (19011407)
        556909.40   3777373.38     1073.56136  (19121218)               556929.40
3777373.38     1085.79658  (23121718)
        556949.40   3777373.38     1085.43452  (23122321)               556969.40
3777373.38      920.36258  (23120518)
        556989.40   3777373.38      701.11434  (21020119)               557009.40
3777373.38      603.99103  (19120718)
        557029.40   3777373.38      606.57638  (18110803)               557049.40
3777373.38      601.43416  (23122320)
        557069.40   3777373.38      550.40532  (23122320)               557089.40
3777373.38      506.46171  (18120207)
        557109.40   3777373.38      465.56369  (18120207)               557129.40
3777373.38      416.11512  (18120207)
        557149.40   3777373.38      382.13683  (23122120)               557169.40
3777373.38      351.64199  (23122120)
        557189.40   3777373.38      326.55484  (19011701)               557209.40
3777373.38      303.10246  (19011701)
        557229.40   3777373.38      280.18151  (20013120)               557249.40
3777373.38      261.59415  (20013120)
        557269.40   3777373.38      243.19966  (20013120)               557289.40
3777373.38      226.41518  (20013120)
        557309.40   3777373.38      211.84524  (18120107)               557329.40
3777373.38      200.39439  (18120107)
        557349.40   3777373.38      190.31515  (18120107)               557369.40
3777373.38      180.69480  (23122818)
        557389.40   3777373.38      171.96275  (23122818)               557409.40
3777373.38      163.57394  (23122818)
        557429.40   3777373.38      155.10406  (23122818)               557449.40
3777373.38      147.60718  (21123002)
        557469.40   3777373.38      140.14350  (21123002)               557489.40
3777373.38      132.32424  (21123002)
        556509.40   3777393.38      390.62254  (19050406)               556529.40
3777393.38      404.21168  (18021301)
        556549.40   3777393.38      415.54077  (20032007)               556569.40
3777393.38      405.62421  (19111119)
        556589.40   3777393.38      433.22801  (23022020)               556609.40
3777393.38      474.27317  (23022020)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
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, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556629.40   3777393.38      506.32585  (21052306)               556649.40
3777393.38      553.96606  (23050706)
        556669.40   3777393.38      592.94482  (20121320)               556689.40
3777393.38      635.96764  (20121320)
        556709.40   3777393.38      731.97898  (19042706)               556729.40
3777393.38      788.86587  (19042706)
        556749.40   3777393.38      831.32400  (21010318)               556769.40
3777393.38      900.47948  (19122606)
        556789.40   3777393.38      954.07356  (23123121)               556809.40
3777393.38     1043.54182  (20071506)
        556829.40   3777393.38     1063.10172  (19011704)               556849.40
3777393.38     1034.58434  (20032007)
        556869.40   3777393.38      809.07407  (21091601)               556889.40
3777393.38      840.17716  (19011407)
        556909.40   3777393.38      875.73456  (19121218)               556929.40
3777393.38      910.35228  (21122017)
        556949.40   3777393.38      895.44105  (18020118)               556969.40
3777393.38      847.48509  (23120518)
        556989.40   3777393.38      635.47761  (20090303)               557009.40
3777393.38      536.77483  (21020119)
        557029.40   3777393.38      475.81034  (19120718)               557049.40
3777393.38      459.87218  (18110803)
        557069.40   3777393.38      468.38596  (23122320)               557089.40
3777393.38      455.73223  (23122320)
        557109.40   3777393.38      419.96495  (23122320)               557129.40
3777393.38      391.04601  (18120207)
        557149.40   3777393.38      368.66013  (18120207)               557169.40
3777393.38      337.86225  (18120207)
        557189.40   3777393.38      308.20632  (23122120)               557209.40
3777393.38      291.94697  (23122120)
        557229.40   3777393.38      273.32546  (23122120)               557249.40
3777393.38      255.76681  (19011701)
        557269.40   3777393.38      240.57674  (19011701)               557289.40
3777393.38      224.85477  (19011701)
        557309.40   3777393.38      211.18075  (20013120)               557329.40
3777393.38      200.50902  (20013120)
        557349.40   3777393.38      189.23679  (20013120)               557369.40
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3777393.38      178.34952  (20013120)
        557389.40   3777393.38      167.74640  (20013120)                557409.40
3777393.38      160.18115  (18120107)
        557429.40   3777393.38      153.23114  (18120107)                557449.40
3777393.38      146.67355  (18120107)
        557469.40   3777393.38      140.15183  (23122818)                557489.40
3777393.38      133.73745  (23122818)
        556509.40   3777413.38      355.02490  (21091102)                556529.40
3777413.38      376.80077  (20032007)
        556549.40   3777413.38      376.30037  (23022020)                556569.40
3777413.38      402.32187  (23022020)
        556589.40   3777413.38      427.38363  (21052306)                556609.40
3777413.38      462.89938  (23050706)
        556629.40   3777413.38      490.68016  (20121320)                556649.40
3777413.38      522.05244  (20121320)
        556669.40   3777413.38      590.82059  (19042706)                556689.40
3777413.38      646.99134  (19042706)
        556709.40   3777413.38      660.89662  (19042706)                556729.40
3777413.38      727.16079  (19011708)
        556749.40   3777413.38      771.68107  (19122606)                556769.40
3777413.38      821.97258  (23123121)
        556789.40   3777413.38      893.96678  (20071506)                556809.40
3777413.38      913.21106  (19050406)
        556829.40   3777413.38      944.32308  (20032007)                556849.40
3777413.38      808.05650  (20032007)
        556869.40   3777413.38      687.29037  (21120318)                556889.40
3777413.38      710.83151  (19011407)
        556909.40   3777413.38      743.76913  (19011324)                556929.40
3777413.38      781.27781  (21122017)
        556949.40   3777413.38      747.72894  (19011619)                556969.40
3777413.38      731.46988  (23122321)
        556989.40   3777413.38      638.30787  (23120518)                557009.40
3777413.38      461.84908  (21020119)
        557029.40   3777413.38      425.70805  (21020119)                557049.40
3777413.38      388.39658  (19120718)
        557069.40   3777413.38      360.42871  (18110803)                557089.40
3777413.38      376.14224  (18110803)
        557109.40   3777413.38      377.50751  (23122320)                557129.40
3777413.38      360.45516  (23122320)
        557149.40   3777413.38      334.77723  (23122320)                557169.40
3777413.38      315.77496  (18120207)
        557189.40   3777413.38      301.67043  (18120207)                557209.40
3777413.38      283.33954  (18120207)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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                                  PAGE  85
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                 L0000120    , L0000121    , L0000122    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557229.40   3777413.38      260.92181  (18120207)               557249.40
3777413.38      245.31360  (23122120)
        557269.40   3777413.38      233.26882  (23122120)               557289.40
3777413.38      219.88574  (23122120)
        557309.40   3777413.38      207.91623  (19011701)               557329.40
3777413.38      197.18996  (19011701)
        557349.40   3777413.38      187.27017  (19011701)               557369.40
3777413.38      176.33085  (20013120)
        557389.40   3777413.38      169.05695  (20013120)               557409.40
3777413.38      161.38128  (20013120)
        557429.40   3777413.38      152.66844  (20013120)               557449.40
3777413.38      144.96038  (20013120)
        557469.40   3777413.38      137.62306  (20013120)               557489.40
3777413.38      131.38278  (18120107)
        556509.40   3777433.38      331.93825  (20032007)               556529.40
3777433.38      344.45550  (23022020)
        556549.40   3777433.38      367.69918  (23050706)               556569.40
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        556589.40   3777433.38      414.84927  (20121320)               556609.40
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        556629.40   3777433.38      486.12645  (19042706)               556649.40
3777433.38      537.04504  (19042706)
        556669.40   3777433.38      561.42622  (19042706)               556689.40
3777433.38      586.46460  (19011708)
        556709.40   3777433.38      636.29333  (19011708)               556729.40
3777433.38      665.51697  (19122606)
        556749.40   3777433.38      716.60819  (23123121)               556769.40
3777433.38      771.93652  (20071506)
        556789.40   3777433.38      808.40529  (19050406)               556809.40
3777433.38      825.36824  (20032007)
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3777433.38      592.08826  (21091601)
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        556869.40   3777433.38      594.35574  (21120318)                556889.40
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        556949.40   3777433.38      644.78826  (19011703)                556969.40
3777433.38      627.84752  (18020118)
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3777433.38      479.26748  (23120518)
        557029.40   3777433.38      383.84091  (21020119)                557049.40
3777433.38      353.52160  (19120718)
        557069.40   3777433.38      327.46009  (19120718)                557089.40
3777433.38      295.83109  (21012207)
        557109.40   3777433.38      309.17938  (18110803)                557129.40
3777433.38      311.67576  (23122320)
        557149.40   3777433.38      310.65664  (23122320)                557169.40
3777433.38      295.85538  (23122320)
        557189.40   3777433.38      275.44680  (23122320)                557209.40
3777433.38      263.42629  (18120207)
        557229.40   3777433.38      253.28694  (18120207)                557249.40
3777433.38      241.23499  (18120207)
        557269.40   3777433.38      225.68342  (18120207)                557289.40
3777433.38      208.82728  (21122222)
        557309.40   3777433.38      201.67286  (23122120)                557329.40
3777433.38      192.18540  (23122120)
        557349.40   3777433.38      181.34123  (23122120)                557369.40
3777433.38      172.77116  (19011701)
        557389.40   3777433.38      166.90409  (19011701)                557409.40
3777433.38      159.61007  (19011701)
        557429.40   3777433.38      150.65735  (19011701)                557449.40
3777433.38      144.24735  (20013120)
        557469.40   3777433.38      138.53887  (20013120)                557489.40
3777433.38      132.70112  (20013120)
        556509.40   3777453.38      320.69698  (23050706)                556529.40
3777453.38      339.03332  (23050706)
        556549.40   3777453.38      356.09012  (20121320)                556569.40
3777453.38      373.65192  (20121320)
        556589.40   3777453.38      406.66794  (19042706)                556609.40
3777453.38      451.15506  (19042706)
        556629.40   3777453.38      479.22165  (19042706)                556649.40
3777453.38      483.32882  (23091905)
        556669.40   3777453.38      531.12984  (19011708)                556689.40
3777453.38      563.74628  (19122606)
        556709.40   3777453.38      583.98452  (19042503)                556729.40
3777453.38      630.65407  (23123121)
        556749.40   3777453.38      674.95409  (19011118)                556769.40
3777453.38      716.64266  (19050406)
        556789.40   3777453.38      718.32753  (21091102)                556809.40
3777453.38      733.52381  (20032007)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE ***
                                 INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                L0000120   , L0000121   , L0000122   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556829.40   3777453.38   620.37674 (20032007)   556849.40
3777453.38   510.11476 (19011519)
        556869.40   3777453.38   525.47731 (23122418)   556889.40
3777453.38   526.87395 (19120423)
        556909.40   3777453.38   552.82479 (19011324)   556929.40
3777453.38   573.82260 (19121218)
        556949.40   3777453.38   554.43349 (23121718)   556969.40
3777453.38   549.98456 (18020118)
        556989.40   3777453.38   529.47384 (23122321)   557009.40
3777453.38   474.17937 (23120518)
        557029.40   3777453.38   362.11310 (20090303)   557049.40
3777453.38   323.73834 (21020119)
        557069.40   3777453.38   300.74040 (19120718)   557089.40
3777453.38   281.23726 (19120718)
        557109.40   3777453.38   254.90062 (21012207)   557129.40
3777453.38   256.60993 (18110803)
        557149.40   3777453.38   265.45822 (18110803)   557169.40
3777453.38   264.53924 (23122320)
        557189.40   3777453.38   260.69607 (23122320)   557209.40
3777453.38   250.15513 (23122320)
        557229.40   3777453.38   232.68539 (23122320)   557249.40
3777453.38   223.97198 (18120207)
        557269.40   3777453.38   217.68786 (18120207)   557289.40
3777453.38   208.36985 (18120207)
        557309.40   3777453.38   197.66800 (18120207)   557329.40
3777453.38   185.01676 (18120207)
        557349.40   3777453.38   175.46191 (23122120)   557369.40

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3777453.38      168.56973  (23122120)
        557389.40   3777453.38      161.98602  (23122120)              557409.40
3777453.38      155.57046  (23122120)
        557429.40   3777453.38      148.65855  (19011701)              557449.40
3777453.38      143.22792  (19011701)
        557469.40   3777453.38      137.22229  (19011701)              557489.40
3777453.38      130.79258  (19011701)
        556509.40   3777473.38      309.38469  (20121320)              556529.40
3777473.38      322.50783  (20121320)
        556549.40   3777473.38      343.72441  (19042706)              556569.40
3777473.38      383.30052  (19042706)
        556589.40   3777473.38      410.30871  (19042706)              556609.40
3777473.38      420.36807  (19042706)
        556629.40   3777473.38      436.33728  (23091905)              556649.40
3777473.38      478.56178  (19011708)
        556669.40   3777473.38      501.81413  (19122606)              556689.40
3777473.38      514.97993  (19042503)
        556709.40   3777473.38      557.14376  (23123121)              556729.40
3777473.38      595.40819  (19011118)
        556749.40   3777473.38      632.82914  (19050406)              556769.40
3777473.38      630.60477  (21091102)
        556789.40   3777473.38      661.24218  (20032007)              556809.40
3777473.38      612.46480  (20032007)
        556829.40   3777473.38      465.65279  (21091601)              556849.40
3777473.38      447.94914  (19011519)
        556869.40   3777473.38      464.77307  (23122418)              556889.40
3777473.38      462.46182  (19120423)
        556909.40   3777473.38      486.39307  (18042404)              556929.40
3777473.38      509.98717  (19121218)
        556949.40   3777473.38      500.95386  (21122017)              556969.40
3777473.38      483.13568  (19011619)
        556989.40   3777473.38      464.25789  (18020118)              557009.40
3777473.38      450.11106  (23120518)
        557029.40   3777473.38      377.98256  (23120518)              557049.40
3777473.38      282.99865  (21020119)
        557069.40   3777473.38      280.13725  (21020119)              557089.40
3777473.38      261.38614  (19120718)
        557109.40   3777473.38      246.33250  (19120718)              557129.40
3777473.38      221.85297  (21012207)
        557149.40   3777473.38      216.57258  (18110803)              557169.40
3777473.38      225.76254  (18110803)
        557189.40   3777473.38      228.81789  (18110803)              557209.40
3777473.38      229.22670  (23122320)
        557229.40   3777473.38      224.02170  (23122320)              557249.40
3777473.38      214.97975  (23122320)
        557269.40   3777473.38      201.15913  (23122320)              557289.40
3777473.38      193.22164  (18120207)
        557309.40   3777473.38      189.47087  (18120207)              557329.40
3777473.38      183.35098  (18120207)
        557349.40   3777473.38      174.95027  (18120207)              557369.40
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: OFFSITE ***
                                 INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                L0000120   , L0000121   , L0000122   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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        556869.40   3777493.38      410.27059  (23122418)              556889.40
3777493.38      409.59121  (19120423)
        556909.40   3777493.38      432.43883  (18042404)              556929.40
3777493.38      452.38401  (19121218)
        556949.40   3777493.38      450.01867  (21122017)              556969.40
3777493.38      431.62115  (19011703)
        556989.40   3777493.38      424.80396  (18020118)              557009.40
3777493.38      411.99765  (23122321)
        557029.40   3777493.38      376.71004  (23120518)              557049.40
3777493.38      300.85762  (20090303)
        557069.40   3777493.38      251.73938  (21020119)              557089.40
3777493.38      244.56441  (21020119)
        557109.40   3777493.38      231.30126  (19120718)              557129.40
3777493.38      218.09728  (19120718)
        557149.40   3777493.38      196.91853  (19120718)              557169.40
3777493.38      191.38687  (21012207)
        557189.40   3777493.38      194.06444  (18110803)              557209.40
3777493.38      200.27595  (18110803)
        557229.40   3777493.38      200.48647  (23122320)              557249.40
3777493.38      200.16835  (23122320)
        557269.40   3777493.38      195.55918  (23122320)              557289.40
3777493.38      187.09164  (23122320)
        557309.40   3777493.38      175.78087  (23122320)              557329.40
3777493.38      169.38092  (18120207)
        557349.40   3777493.38      166.89168  (18120207)              557369.40
3777493.38      162.23623  (18120207)
        557389.40   3777493.38      156.34011  (18120207)              557409.40
3777493.38      149.18993  (18120207)
        557429.40   3777493.38      140.20795  (18120207)              557449.40
3777493.38      133.53744  (23122120)
        557469.40   3777493.38      130.76472  (23122120)              557489.40
3777493.38      126.73808  (23122120)
        556509.40   3777513.38      309.11315  (19042706)              556529.40
3777513.38      323.92534  (19042706)
        556549.40   3777513.38      326.39423  (19042706)              556569.40
3777513.38      340.43013  (23091905)
        556589.40   3777513.38      370.05474  (19011708)              556609.40
3777513.38      385.12061  (19120722)
        556629.40   3777513.38      402.25417  (19122606)              556649.40
3777513.38      410.10868  (19042503)
        556669.40   3777513.38      446.15421  (23123121)              556689.40
3777513.38      468.33086  (19011118)
        556709.40   3777513.38      497.46254  (19050406)              556729.40
3777513.38      513.65962  (19050406)
        556749.40   3777513.38      521.15190  (21091102)              556769.40
3777513.38      545.25869  (20032007)
        556789.40   3777513.38      493.42397  (20032007)              556809.40
3777513.38      372.30562  (21091601)
        556829.40   3777513.38      357.94008  (19011519)              556849.40
3777513.38      363.46690  (21120318)
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        556869.40   3777513.38      368.53800  (19011407)                556889.40
3777513.38      366.97231  (21012523)
        556909.40   3777513.38      385.76793  (18042404)                556929.40
3777513.38      403.20569  (19121218)
        556949.40   3777513.38      403.63655  (21122017)                556969.40
3777513.38      382.19526  (19011703)
        556989.40   3777513.38      379.27304  (19011619)                557009.40
3777513.38      366.89889  (21021919)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557029.40   3777513.38      356.15688  (23120518)                557049.40
3777513.38      311.07091  (23120518)
        557069.40   3777513.38      244.47296  (20090303)                557089.40
3777513.38      224.58022  (21020119)
        557109.40   3777513.38      216.68034  (21020119)                557129.40
3777513.38      206.01358  (19120718)
        557149.40   3777513.38      195.77359  (19120718)                557169.40
3777513.38      178.20611  (19120718)
        557189.40   3777513.38      171.81262  (21012207)                557209.40
3777513.38      168.87667  (18110803)
        557229.40   3777513.38      175.21835  (18110803)                557249.40
3777513.38      178.50309  (18110803)
        557269.40   3777513.38      178.60586  (23122320)                557289.40
3777513.38      177.03376  (23122320)
        557309.40   3777513.38      172.64860  (23122320)                557329.40
3777513.38      165.44764  (23122320)
        557349.40   3777513.38      156.08784  (23122320)                557369.40
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3777513.38      150.18273  (18120207)
        557389.40   3777513.38      148.58528  (18120207)              557409.40
3777513.38      145.47742  (18120207)
        557429.40   3777513.38      140.38933  (18120207)              557449.40
3777513.38      134.61058  (18120207)
        557469.40   3777513.38      128.31779  (18120207)              557489.40
3777513.38      122.01993  (21122222)
        556509.40   3777533.38      293.23601  (19042706)              556529.40
3777533.38      295.40284  (18042302)
        556549.40   3777533.38      313.72880  (19011708)              556569.40
3777533.38      338.24855  (19011708)
        556589.40   3777533.38      349.39903  (19122606)              556609.40
3777533.38      359.62236  (19122606)
        556629.40   3777533.38      367.20613  (19042503)              556649.40
3777533.38      401.02965  (23123121)
        556669.40   3777533.38      417.92430  (19011118)              556689.40
3777533.38      439.80255  (19050406)
        556709.40   3777533.38      464.58504  (19050406)              556729.40
3777533.38      467.90910  (21091102)
        556749.40   3777533.38      490.76391  (20032007)              556769.40
3777533.38      480.28765  (20032007)
        556789.40   3777533.38      398.69386  (20032007)              556809.40
3777533.38      309.54959  (19011519)
        556829.40   3777533.38      323.21989  (19011519)              556849.40
3777533.38      328.78741  (23122418)
        556869.40   3777533.38      333.71843  (19011407)              556889.40
3777533.38      330.77685  (21012523)
        556909.40   3777533.38      348.43836  (18042404)              556929.40
3777533.38      361.09258  (21020220)
        556949.40   3777533.38      361.79913  (21011317)              556969.40
3777533.38      345.39314  (23121718)
        556989.40   3777533.38      342.49800  (19011703)              557009.40
3777533.38      336.72739  (18020118)
        557029.40   3777533.38      328.60689  (23122321)              557049.40
3777533.38      306.23827  (23120518)
        557069.40   3777533.38      254.70070  (23120518)              557089.40
3777533.38      199.84149  (21020119)
        557109.40   3777533.38      202.40659  (21020119)              557129.40
3777533.38      194.06195  (21020119)
        557149.40   3777533.38      186.41229  (19120718)              557169.40
3777533.38      177.00585  (19120718)
        557189.40   3777533.38      162.13308  (19120718)              557209.40
3777533.38      156.21352  (21012207)
        557229.40   3777533.38      150.28021  (21012207)              557249.40
3777533.38      154.55779  (18110803)
        557269.40   3777533.38      158.65774  (18110803)              557289.40
3777533.38      159.77033  (18110803)
        557309.40   3777533.38      160.08892  (23122320)              557329.40
3777533.38      158.35816  (23122320)
        557349.40   3777533.38      154.13712  (23122320)              557369.40
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3777533.38      147.58303  (23122320)
        557389.40   3777533.38      139.25566  (23122320)                557409.40
3777533.38      134.55677  (18120207)
        557429.40   3777533.38      133.31868  (18120207)                557449.40
3777533.38      130.95789  (18120207)
        557469.40   3777533.38      127.02547  (18120207)                557489.40
3777533.38      122.40292  (18120207)
        556509.40   3777553.38      273.66382  (23091905)                556529.40
3777553.38      294.40823  (19011708)
        556549.40   3777553.38      309.87770  (19011708)                556569.40
3777553.38      320.67462  (19122606)
        556589.40   3777553.38      325.48189  (19122606)                556609.40
3777553.38      332.94877  (21091605)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556629.40   3777553.38      363.27110  (23123121)                556649.40
3777553.38      378.64733  (19011118)
        556669.40   3777553.38      394.19219  (20071506)                556689.40
3777553.38      417.08304  (19050406)
        556709.40   3777553.38      414.72850  (19042604)                556729.40
3777553.38      438.72631  (18021301)
        556749.40   3777553.38      447.93071  (20032007)                556769.40
3777553.38      402.35017  (20032007)
        556789.40   3777553.38      311.36901  (21091601)                556809.40
3777553.38      290.34767  (19011519)
        556829.40   3777553.38      289.74619  (21120318)                556849.40
3777553.38      301.49655  (23122418)
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        556869.40   3777553.38      304.04543  (19011407)              556889.40
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        556909.40   3777553.38      316.80460  (18042404)              556929.40
3777553.38      330.72388  (19011324)
        556949.40   3777553.38      325.20104  (21011317)              556969.40
3777553.38      320.42027  (21122017)
        556989.40   3777553.38      311.85992  (19011703)              557009.40
3777553.38      307.11091  (18020118)
        557029.40   3777553.38      294.62155  (21021919)              557049.40
3777553.38      289.02364  (23120518)
        557069.40   3777553.38      259.26574  (23120518)              557089.40
3777553.38      211.82852  (20090303)
        557109.40   3777553.38      182.88020  (21020119)              557129.40
3777553.38      183.31959  (21020119)
        557149.40   3777553.38      174.78482  (21020119)              557169.40
3777553.38      168.88101  (19120718)
        557189.40   3777553.38      161.12443  (19120718)              557209.40
3777553.38      148.89012  (19120718)
        557229.40   3777553.38      141.53274  (21012207)              557249.40
3777553.38      137.94985  (21012207)
        557269.40   3777553.38      136.00260  (18110803)              557289.40
3777553.38      141.36422  (18110803)
        557309.40   3777553.38      143.97975  (18110803)              557329.40
3777553.38      144.04001  (23122320)
        557349.40   3777553.38      144.57507  (23122320)              557369.40
3777553.38      142.65657  (23122320)
        557389.40   3777553.38      138.24477  (23122320)              557409.40
3777553.38      132.77066  (23122320)
        557429.40   3777553.38      125.96853  (23122320)              557449.40
3777553.38      121.36626  (18120207)
        557469.40   3777553.38      120.53051  (18120207)              557489.40
3777553.38      118.17595  (18120207)
        557438.91   3777336.71      147.96585  (20121124)              556615.91
3777136.99     1719.15616  (19020324)
        556586.37   3777056.16      692.38431  (20090403)              556672.35
3776929.14      409.25423  (19020324)
        556692.35   3776929.14      389.29496  (19020324)              556712.35
3776929.14      361.34916  (23111719)
        556732.35   3776929.14      379.54700  (20110318)              556752.35
3776929.14      392.01738  (20110318)
        556772.35   3776929.14      464.92291  (20050906)              556792.35
3776929.14      486.92604  (20050906)
        556812.35   3776929.14      430.51093  (18060505)              556832.35
3776929.14      431.49130  (19072803)
        556852.35   3776929.14      429.26587  (20092605)              556672.35
3776949.14      420.66624  (19020324)
        556692.35   3776949.14      436.67320  (19020324)              556712.35
3776949.14      406.26566  (23111719)
        556732.35   3776949.14      392.42756  (20090403)              556752.35
3776949.14      417.01548  (20110318)
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        556772.35   3776949.14      462.82821  (20050906)                556792.35
3776949.14      519.54444  (20050906)
        556812.35   3776949.14      480.09186  (20050906)                556832.35
3776949.14      460.21276  (19072803)
        556852.35   3776949.14      452.13164  (20092605)                556672.35
3776969.14      447.44896  (23012120)
        556692.35   3776969.14      462.06644  (19020324)                556712.35
3776969.14      453.15537  (19020324)
        556732.35   3776969.14      416.23658  (23111719)                556752.35
3776969.14      431.99389  (20110318)
        556772.35   3776969.14      449.16365  (20050906)                556792.35
3776969.14      543.42641  (20050906)
        556812.35   3776969.14      531.80585  (20050906)                556832.35
3776969.14      488.47836  (19072803)
        556852.35   3776969.14      476.72464  (20070604)                556672.35
3776989.14      497.16562  (23012120)
        556692.35   3776989.14      481.88351  (21091104)                556712.35
3776989.14      500.36704  (19020324)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                 L0000120    , L0000121    , L0000122    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556732.35   3776989.14      468.33917  (23111719)                556752.35
3776989.14      445.70049  (20090403)
        556772.35   3776989.14      474.87112  (20110318)                556792.35
3776989.14      556.00935  (20050906)
        556812.35   3776989.14      580.80629  (20050906)                556832.35
3776989.14      517.27486  (19122218)
        556852.35   3776989.14      511.60391  (20070604)                556672.35
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        556692.35   3777009.14      534.15165  (23011103)              556712.35
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        556732.35   3777009.14      530.34608  (19020324)              556752.35
3777009.14      485.62018  (23111719)
        556772.35   3777009.14      498.77553  (20110318)              556792.35
3777009.14      552.35252  (20050906)
        556812.35   3777009.14      622.92334  (20050906)              556832.35
3777009.14      551.51156  (20050906)
        556852.35   3777009.14      547.44510  (20070604)              556672.35
3777029.14      625.23947  (18121819)
        556692.35   3777029.14      597.60728  (20031103)              556712.35
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3777029.14      546.47229  (19020324)
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        556812.35   3777029.14      653.06918  (20050906)              556832.35
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        556852.35   3777029.14      586.73332  (19072803)              556672.35
3777049.14      721.26012  (18121819)
        556692.35   3777049.14      679.88648  (21081422)              556712.35
3777049.14      655.31188  (19102619)
        556732.35   3777049.14      611.18639  (21012124)              556752.35
3777049.14      624.06356  (19020324)
        556772.35   3777049.14      574.37842  (23111719)              556792.35
3777049.14      580.64423  (20110318)
        556812.35   3777049.14      668.50651  (20050906)              556832.35
3777049.14      693.10076  (20050906)
        556852.35   3777049.14      633.16404  (19072803)              556927.54
3776959.53      413.29252  (23012120)
        556947.54   3776959.53      399.21322  (18121819)              556967.54
3776959.53      395.00420  (23011103)
        556987.54   3776959.53      406.46470  (21081422)              557007.54
3776959.53      404.41282  (20031324)
        557027.54   3776959.53      393.52180  (19102619)              557047.54
3776959.53      374.99571  (19113024)
        557067.54   3776959.53      375.29256  (21091306)              557087.54
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3776979.53      435.30884  (21091104)
        556967.54   3776979.53      420.28294  (20031103)              556987.54
3776979.53      433.07460  (21081422)
        557007.54   3776979.53      428.09352  (20031324)              557027.54
3776979.53      414.52162  (19113024)
        557047.54   3776979.53      397.72268  (18091905)              557067.54
3776979.53      402.74874  (21091306)
        557087.54   3776979.53      381.95975  (21012124)              556927.54
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        556947.54   3776999.53      469.06595  (20051805)              556967.54
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        556987.54   3776999.53      456.65206  (20031324)                557007.54
3776999.53      450.04257  (20012020)
        557027.54   3776999.53      434.62344  (19113024)                557047.54
3776999.53      431.69119  (21091306)
        557067.54   3776999.53      424.74161  (21012124)                557087.54
3776999.53      377.82987  (23111604)
        556927.54   3777019.53      509.39907  (18121819)                556947.54
3777019.53      501.57562  (20051805)
        556967.54   3777019.53      493.75888  (21081422)                556987.54
3777019.53      494.62070  (20031324)
        557007.54   3777019.53      479.80279  (19102619)                557027.54
3777019.53      459.84647  (18091905)
        557047.54   3777019.53      464.69895  (21091306)                557067.54
3777019.53      433.55777  (21012206)
        557087.54   3777019.53      360.34321  (23111604)                556927.54
3777039.53      551.44407  (18121819)
        556947.54   3777039.53      534.17181  (20051805)                556967.54
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        556987.54   3777039.53      527.73219  (20031324)                557007.54
3777039.53      507.60292  (19113024)
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3777039.53      509.45490  (21012206)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  91
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                 L0000120    , L0000121    , L0000122    ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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3777039.53      321.72971  (23111604)
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3777059.53      382.03081  (23111604)
        557087.54   3777059.53      262.61070  (23111604)              556919.02
3777174.93     1095.77141  (21091606)
        556939.02   3777174.93     1036.86722  (20031324)              556919.02
3777194.93     1208.67475  (21091606)
        556939.02   3777194.93     1152.30612  (18091905)              556919.02
3777214.93     1360.28573  (21091606)
        556939.02   3777214.93     1330.80271  (21091306)              556919.02
3777234.93     1566.74325  (21011819)
        556939.02   3777234.93     1492.44437  (21091306)              556919.02
3777254.93     1807.07122  (21011819)
        556939.02   3777254.93     1678.73075  (21091306)              557023.57
3777171.57      326.76486  (21012206)
        557043.57   3777171.57      233.25484  (19020905)              557063.57
3777171.57      241.26261  (19020905)
        557083.57   3777171.57      237.94424  (19020905)              557023.57
3777191.57      308.68459  (19020905)
        557043.57   3777191.57      310.90439  (19020905)              557063.57
3777191.57      296.77760  (19020905)
        557083.57   3777191.57      271.76048  (19020905)              557023.57
3777211.57      412.09597  (19020905)
        557043.57   3777211.57      374.33853  (19020905)              557063.57
3777211.57      335.89477  (21122318)
        557083.57   3777211.57      299.33372  (21122318)              557023.57
3777231.57      492.09223  (21122318)
        557043.57   3777231.57      419.59416  (21122318)              557063.57
3777231.57      349.93061  (21122318)
        557083.57   3777231.57      306.14335  (19120102)              557023.57
3777251.57      529.78588  (19120102)
        557043.57   3777251.57      454.85589  (19120102)              557063.57
3777251.57      423.09958  (19120324)
        557083.57   3777251.57      391.55050  (19120324)              556249.05
3776972.85      388.35872  (19020201)
        556269.05   3776972.85      416.33682  (19120424)              556229.05
3776992.85      388.24412  (19020201)
        556249.05   3776992.85      407.22548  (19020201)              556269.05
3776992.85      428.73730  (19020201)
        556289.05   3776992.85      426.60954  (19020201)              556309.05
3776992.85      462.29182  (19120424)
        556329.05   3776992.85      483.50713  (19120424)              556209.05
3777012.85      345.83862  (23110417)
        556229.05   3777012.85      369.93624  (19113019)              556249.05
3777012.85      396.35607  (19113019)
        556269.05   3777012.85      425.53161  (19020201)              556289.05
3777012.85      450.60501  (19020201)
        556309.05   3777012.85      474.98657  (19020201)              556329.05
3777012.85      472.92707  (19020201)
        556209.05   3777032.85      370.64493  (23092902)              556229.05
3777032.85      374.35420  (23092902)
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        556249.05   3777032.85      376.18291  (18030824)                556269.05
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3777072.85      460.17638  (19122921)
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3777092.85      446.68036  (21101420)
        556441.69   3776927.49      325.28246  (21010719)                556461.69
3776927.49      331.65041  (18102919)
        556481.69   3776927.49      355.52861  (19020324)                556421.69
3776947.49      343.42355  (20111119)
        556441.69   3776947.49      347.74684  (18123020)                556461.69
3776947.49      363.63526  (21010719)
        556481.69   3776947.49      360.61362  (19020324)                556401.69
3776967.49      397.33090  (20072505)
        556421.69   3776967.49      371.92308  (20073101)                556441.69
3776967.49      372.74958  (20111119)
        556461.69   3776967.49      385.77784  (20111219)                556481.69
3776967.49      401.14512  (21010719)
        556401.69   3776987.49      460.74266  (20072505)                556421.69
3776987.49      430.45002  (20072505)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                 L0000120    , L0000121    , L0000122    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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3776548.23       62.37662  (19062905)
        557510.26   3776568.23       72.53205  (23100204)                557530.26
3776568.23       72.76110  (23100204)
        557550.26   3776568.23       71.11172  (23100204)                557570.26
3776568.23       67.88116  (23100204)
        557590.26   3776568.23       68.01571  (19062905)                557610.26
3776568.23       68.51927  (19062905)
        557630.26   3776568.23       67.91403  (19062905)                557650.26
3776568.23       66.32374  (19062905)
        557670.26   3776568.23       63.45088  (19062905)                557690.26
3776568.23       59.70740  (19062905)
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3776588.23       73.08214  (23100204)
        557550.26   3776588.23       69.93281  (23100204)                557570.26
3776588.23       69.36339  (19062905)
        557590.26   3776588.23       69.70368  (19062905)                557610.26
3776588.23       68.96358  (19062905)
        557630.26   3776588.23       67.30042  (19062905)                557650.26
3776588.23       64.51949  (19062905)
        557670.26   3776588.23       60.75449  (19062905)                557690.26
3776588.23       56.28800  (19062905)
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3776608.23       71.89243  (23100204)
        557550.26   3776608.23       70.99374  (19062905)                557570.26
3776608.23       71.22677  (19062905)
        557590.26   3776608.23       70.15297  (19062905)                557610.26
3776608.23       68.16064  (19062905)
        557630.26   3776608.23       65.34633  (19062905)                557650.26
3776608.23       61.52259  (19062905)
        557670.26   3776608.23       56.92309  (19062905)                557690.26
3776608.23       58.45493  (21011318)
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3776628.23       72.53141  (19062905)
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557550.26   3776628.23       72.67861  (19062905)               557570.26
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3776628.23       58.14829  (21011318)
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        557550.26   3776648.23       72.80111  (19062905)               557570.26
3776648.23       70.18577  (19062905)
        557590.26   3776648.23       66.97247  (19062905)               557610.26
3776648.23       62.71163  (19062905)
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3776648.23       61.29722  (21011318)
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3776668.23       74.07816  (19062905)
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3776668.23       58.55170  (19062905)
        557630.26   3776668.23       59.91397  (21011318)               557650.26
3776668.23       61.52017  (21011318)
        557670.26   3776668.23       63.66541  (21011318)               557690.26
3776668.23       63.17649  (21011318)
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3776688.23       71.95579  (19062905)
        557550.26   3776688.23       68.18757  (19062905)               557570.26
3776688.23       63.72924  (19062905)
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3776688.23       59.62297  (21011318)
        557630.26   3776688.23       60.98942  (21011318)               557650.26
3776688.23       61.86001  (21011318)
        557670.26   3776688.23       61.56326  (21011318)               557690.26
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3776517.81      117.45275  (23010404)
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3776517.81       99.89563  (19020324)
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3776517.81      114.77509  (20050906)
        556452.49   3776517.81      107.03505  (20050906)                556472.49
3776517.81      113.96257  (23071306)
        556492.49   3776517.81      112.51108  (23071306)                556172.49
3776537.81      124.05825  (23010404)
        556192.49   3776537.81      120.69134  (23010404)                556212.49
3776537.81      117.05395  (23010404)
        556232.49   3776537.81      116.06619  (19020324)                556252.49
3776537.81      111.22646  (19020324)
        556272.49   3776537.81      107.55600  (20111219)                556292.49
3776537.81      106.95330  (23071306)
        556312.49   3776537.81      106.33407  (21010719)                556332.49
3776537.81      108.03686  (18102919)
        556352.49   3776537.81      105.36963  (18102919)                556372.49
3776537.81      103.44574  (20110318)
        556392.49   3776537.81       95.89537  (19020324)                556412.49
3776537.81      103.62524  (20050906)
        556432.49   3776537.81      118.53322  (20050906)                556452.49
3776537.81      115.21571  (20050906)
        556472.49   3776537.81      114.58229  (23071306)                556492.49
3776537.81      119.07619  (23071306)
        556332.49   3776557.81      113.17091  (21010719)                556352.49
3776557.81      110.54878  (18102919)
        556372.49   3776557.81      110.46932  (20110318)                556392.49
3776557.81      102.57680  (20031603)
        556412.49   3776557.81      106.00917  (19020324)                556432.49
3776557.81      121.52762  (20050906)
        556452.49   3776557.81      123.75862  (20050906)                556472.49
3776557.81      112.77041  (20050906)
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
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, L0000085    , L0000086    , L0000087    ,
                L0000120    , L0000121    , L0000122    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556492.49   3776557.81      122.54391  (23071306)               556332.49
3776577.81      113.80419  (23071306)
        556352.49   3776577.81      116.16835  (21010719)               556372.49
3776577.81      115.81696  (18102919)
        556392.49   3776577.81      114.26721  (20110318)               556412.49
3776577.81      110.37163  (23102324)
        556432.49   3776577.81      122.62492  (20050906)               556452.49
3776577.81      132.96163  (20050906)
        556472.49   3776577.81      126.44364  (20050906)               556492.49
3776577.81      122.66030  (23071306)
        556332.49   3776597.81      124.90183  (20111219)               556352.49
3776597.81      120.43871  (21010719)
        556372.49   3776597.81      120.06772  (21010719)               556392.49
3776597.81      120.17398  (20110318)
        556412.49   3776597.81      114.27515  (20012518)               556432.49
3776597.81      121.35760  (20050906)
        556452.49   3776597.81      136.12184  (20050906)               556472.49
3776597.81      134.91771  (20050906)
        556492.49   3776597.81      121.67388  (18060505)               556252.49
3776617.81      138.98934  (20111119)
        556272.49   3776617.81      137.85486  (19020324)               556292.49
3776617.81      139.46598  (19020324)
        556312.49   3776617.81      132.13618  (23111719)               556332.49
3776617.81      128.44457  (20111219)
        556352.49   3776617.81      129.21636  (20111219)               556372.49
3776617.81      127.96504  (21010719)
        556392.49   3776617.81      127.52706  (20110318)               556412.49
3776617.81      125.83552  (20110318)
        556432.49   3776617.81      121.75670  (23102324)               556452.49
3776617.81      143.55845  (20050906)
        556472.49   3776617.81      144.59639  (20050906)               556492.49
3776617.81      132.51881  (20050906)
        556252.49   3776637.81      146.68056  (20111119)               556272.49
3776637.81      144.53799  (20111119)
        556292.49   3776637.81      147.21660  (19020324)               556312.49
3776637.81      142.67795  (19020324)
        556332.49   3776637.81      138.19193  (23111719)               556352.49
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3776637.81      136.60574  (20111219)
        556372.49   3776637.81      135.27468  (20111219)                556392.49
3776637.81      132.05838  (21010719)
        556412.49   3776637.81      134.89383  (20110318)                556432.49
3776637.81      125.90636  (18102919)
        556452.49   3776637.81      142.93992  (20050906)                556472.49
3776637.81      156.56588  (20050906)
        556492.49   3776637.81      147.09435  (20050906)                556252.49
3776657.81      153.80081  (20111119)
        556272.49   3776657.81      153.92457  (20111119)                556292.49
3776657.81      151.40541  (20111119)
        556312.49   3776657.81      153.08297  (19020324)                556332.49
3776657.81      146.70614  (19020324)
        556352.49   3776657.81      143.03039  (23111719)                556372.49
3776657.81      145.52105  (20111219)
        556392.49   3776657.81      136.23074  (20111219)                556412.49
3776657.81      140.58506  (20110318)
        556432.49   3776657.81      135.44241  (18102919)                556452.49
3776657.81      140.57844  (20050906)
        556472.49   3776657.81      162.80945  (20050906)                556492.49
3776657.81      161.64859  (20050906)
        556252.49   3776677.81      163.15752  (23010404)                556272.49
3776677.81      155.23900  (20111119)
        556292.49   3776677.81      155.16826  (20111119)                556312.49
3776677.81      160.79418  (19020324)
        556332.49   3776677.81      162.42178  (19020324)                556352.49
3776677.81      154.48569  (23111719)
        556372.49   3776677.81      147.86419  (20111219)                556392.49
3776677.81      147.66025  (20111219)
        556412.49   3776677.81      145.07118  (20110318)                556432.49
3776677.81      146.61340  (20110318)
        556452.49   3776677.81      139.78010  (23102324)                556472.49
3776677.81      167.06309  (20050906)
        556492.49   3776677.81      175.40542  (20050906)                556252.49
3776697.81      174.20347  (23010404)
        556272.49   3776697.81      164.75200  (23010404)                556372.49
3776697.81      159.83524  (23111719)
        556392.49   3776697.81      149.83025  (23071306)                556412.49
3776697.81      152.60435  (20111219)
        556432.49   3776697.81      155.38439  (20110318)                556452.49
3776697.81      144.35865  (20110318)
        556472.49   3776697.81      165.90839  (20050906)                556492.49
3776697.81      186.50033  (20050906)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  OFFSITE  ***
                                   INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                 L0000120    , L0000121    , L0000122    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556252.49   3776717.81      178.96508  (23010404)               556272.49
3776717.81      176.66055  (20111219)
        556372.49   3776717.81      171.17133  (23111719)               556392.49
3776717.81      159.33764  (23071306)
        556412.49   3776717.81      161.38101  (20090403)               556432.49
3776717.81      159.70542  (20110318)
        556452.49   3776717.81      159.81181  (20110318)               556472.49
3776717.81      165.45498  (20050906)
        556492.49   3776717.81      194.08485  (20050906)               556267.40
3776875.81      326.22018  (20072505)
        556239.03   3776853.02      303.04477  (20072505)               556178.76
3776751.21      229.62345  (20073101)
        556154.45   3776774.51      251.84831  (20073101)               556119.50
3776705.11      209.65442  (20073101)
        556146.51   3777267.93      231.61896  (19042703)               556151.00
3777234.88      250.03068  (23071605)
        556144.93   3777179.58      287.78885  (19081106)               556205.18
3777236.46      274.39776  (21110618)
        556218.00   3777200.04      345.71743  (19011408)               556772.00
3777345.97     1091.05670  (20121320)
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                   INCLUDING SOURCE(S):     L0000025    , L0000026
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556521.71	3777341.57	685.12568	(23050706)	556539.90	3777344.94	721.20427	(23050706)
556591.78	3777345.39	903.62921	(19042706)	556630.62	3777349.66	1002.61445	(23091905)
556684.29	3777349.43	1211.50414	(19042503)	556905.58	3777351.19	1137.76121	(18020118)
556920.93	3777350.82	1084.09706	(23122321)	556942.87	3777350.09	895.91306	(23120518)
556996.26	3777348.26	538.01727	(19021106)	557096.81	3777357.77	372.12722	(23122320)
557115.83	3777363.62	351.09801	(23122320)	557129.36	3777361.43	346.99144	(23122320)
557230.65	3777363.99	259.05878	(18120207)	556466.22	3776816.07	454.36918	(20111119)
556407.87	3776826.19	422.33424	(19011501)	556381.07	3776807.14	389.79707	(19011501)
556404.29	3776771.52	379.74938	(23092301)	556465.21	3776739.51	382.01627	(20111219)
556396.10	3776739.93	371.72918	(20111119)	556323.99	3777265.43	395.91549	(19042702)
556330.60	3777233.99	406.05837	(19042703)	556321.08	3777200.43	397.69334	(23071605)
556275.11	3777267.81	352.11451	(18102619)	556278.28	3777233.46	356.62288	(21100603)
556509.40	3777373.38	611.37958	(20121320)	556529.40	3777373.38	654.25791	(19042706)
556549.40	3777373.38	736.32036	(19042706)	556569.40	3777373.38	787.65658	(19042706)
556589.40	3777373.38	802.41324	(21070703)	556609.40	3777373.38	890.83726	(19011708)
556629.40	3777373.38	954.06901	(19120722)	556649.40	3777373.38	981.37302	(19042503)
556669.40	3777373.38	1077.71454	(23123121)	556689.40	3777373.38	1167.34204	(19011118)
556709.40	3777373.38	1270.88536	(19050406)	556729.40	3777373.38	1293.79376	(21091102)
556749.40	3777373.38	1383.51338	(20032007)	556769.40	3777373.38	1093.26752	(20032007)

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        556789.40   3777373.38      925.87693  (19011519)                556809.40
3777373.38      954.34388  (23122418)
        556829.40   3777373.38      965.99464  (19120423)                556849.40
3777373.38      995.37236  (23102701)
        556869.40   3777373.38     1045.63189  (19121218)                556889.40
3777373.38      998.12115  (21122017)
        556909.40   3777373.38      955.51060  (19011619)                556929.40
3777373.38      902.45484  (23122321)
        556949.40   3777373.38      810.59409  (23120518)                556969.40
3777373.38      608.60610  (20090303)
        556989.40   3777373.38      497.44036  (21020119)                557009.40
3777373.38      462.68593  (21020119)
        557029.40   3777373.38      415.51379  (19120718)                557049.40
3777373.38      372.02948  (19120718)
        557069.40   3777373.38      329.26906  (21012207)                557089.40
3777373.38      317.86940  (18110803)
        557109.40   3777373.38      325.20391  (18110803)                557129.40
3777373.38      322.66658  (23122320)
        557149.40   3777373.38      314.08682  (23122320)                557169.40
3777373.38      297.30256  (23122320)
        557189.40   3777373.38      275.71164  (23122320)                557209.40
3777373.38      264.34046  (18120207)
        557229.40   3777373.38      255.06612  (18120207)                557249.40
3777373.38      242.02507  (18120207)
        557269.40   3777373.38      226.50315  (18120207)                557289.40
3777373.38      210.66869  (21122222)
        557309.40   3777373.38      202.84508  (23122120)                557329.40
3777373.38      193.93231  (23122120)
        557349.40   3777373.38      185.21456  (23122120)                557369.40
3777373.38      176.10158  (19011701)
        557389.40   3777373.38      169.24542  (19011701)                557409.40
3777373.38      161.91056  (19011701)
        557429.40   3777373.38      153.81586  (19011701)                557449.40
3777373.38      147.16649  (20013120)
        557469.40   3777373.38      141.48194  (20013120)                557489.40
3777373.38      134.84447  (20013120)
        556509.40   3777393.38      620.98005  (19042706)                556529.40
3777393.38      668.71946  (19042706)
        556549.40   3777393.38      687.51117  (19042706)                556569.40
3777393.38      710.74929  (23091905)
        556589.40   3777393.38      798.57579  (19011708)                556609.40
3777393.38      835.76874  (19122606)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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                                  PAGE  97
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0000025 , L0000026 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556629.40	3777393.38	863.72397	(19042503)	556649.40	3777393.38	939.06204	(23123121)
556669.40	3777393.38	998.01660	(19011118)	556689.40	3777393.38	1079.39292	(19050406)
556709.40	3777393.38	1094.16626	(18042604)	556729.40	3777393.38	1186.34710	(20032007)
556749.40	3777393.38	1118.91778	(20032007)	556769.40	3777393.38	771.77323	(21091601)
556789.40	3777393.38	803.37575	(19011519)	556809.40	3777393.38	832.18748	(23122418)
556829.40	3777393.38	831.57287	(19120423)	556849.40	3777393.38	853.94267	(23102701)
556869.40	3777393.38	891.10852	(19121218)	556889.40	3777393.38	883.36073	(21122017)
556909.40	3777393.38	838.56118	(19011703)	556929.40	3777393.38	792.87638	(18020118)
556949.40	3777393.38	752.16961	(23122321)	556969.40	3777393.38	635.76200	(23120518)
556989.40	3777393.38	471.22463	(20090303)	557009.40	3777393.38	425.69591	(21020119)
557029.40	3777393.38	394.74624	(21020119)	557049.40	3777393.38	357.17001	(19120718)
557069.40	3777393.38	324.66615	(19120718)	557089.40	3777393.38	284.94088	(21012207)
557109.40	3777393.38	271.08061	(21012207)	557129.40	3777393.38	274.11503	(18110803)
557149.40	3777393.38	277.06973	(23092605)	557169.40	3777393.38	274.19647	(23122320)
557189.40	3777393.38	266.29147	(23122320)	557209.40	3777393.38	253.79453	(23122320)
557229.40	3777393.38	236.72544	(23122320)	557249.40	3777393.38	226.04933	(18120207)
557269.40	3777393.38	219.92704	(18120207)	557289.40	3777393.38	210.77196	(18120207)

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        557309.40   3777393.38      198.91884  (18120207)                557329.40
3777393.38      187.45895  (18120207)
        557349.40   3777393.38      176.94157  (23122120)                557369.40
3777393.38      171.58936  (23122120)
        557389.40   3777393.38      165.23470  (23122120)                557409.40
3777393.38      157.72717  (23122120)
        557429.40   3777393.38      150.46884  (19011701)                557449.40
3777393.38      145.50958  (19011701)
        557469.40   3777393.38      139.56369  (19011701)                557489.40
3777393.38      132.88937  (19011701)
        556509.40   3777413.38      600.02860  (19042706)                556529.40
3777413.38      605.37813  (21070703)
        556549.40   3777413.38      659.06592  (19011708)                556569.40
3777413.38      717.22347  (19011708)
        556589.40   3777413.38      746.32990  (19122606)                556609.40
3777413.38      762.04271  (19042503)
        556629.40   3777413.38      835.43075  (23123121)                556649.40
3777413.38      875.96232  (19011118)
        556669.40   3777413.38      939.45702  (19050406)                556689.40
3777413.38      956.32031  (19050406)
        556709.40   3777413.38     1014.31506  (18021301)                556729.40
3777413.38     1047.46876  (20032007)
        556749.40   3777413.38      835.78969  (20032007)                556769.40
3777413.38      685.50651  (19011519)
        556789.40   3777413.38      699.20211  (21120318)                556809.40
3777413.38      730.79772  (23122418)
        556829.40   3777413.38      726.12533  (21012523)                556849.40
3777413.38      750.00287  (23102701)
        556869.40   3777413.38      788.38500  (21020220)                556889.40
3777413.38      779.15437  (21122017)
        556909.40   3777413.38      739.23028  (19011703)                556929.40
3777413.38      720.50565  (18020118)
        556949.40   3777413.38      681.30072  (23122321)                556969.40
3777413.38      626.76849  (23120518)
        556989.40   3777413.38      500.74370  (18031005)                557009.40
3777413.38      369.48207  (20090303)
        557029.40   3777413.38      367.19557  (21020119)                557049.40
3777413.38      341.05881  (21020119)
        557069.40   3777413.38      311.63237  (19120718)                557089.40
3777413.38      287.03355  (19120718)
        557109.40   3777413.38      253.21974  (19120718)                557129.40
3777413.38      239.60148  (21012207)
        557149.40   3777413.38      233.00763  (18110803)                557169.40
3777413.38      239.05274  (18110803)
        557189.40   3777413.38      238.96419  (23092605)                557209.40
3777413.38      237.95704  (23122320)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: IDLE ***
INCLUDING SOURCE(S): L0000025 , L0000026 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557229.40	3777413.38	230.80868	(23122320)	557249.40	3777413.38	219.46474	(23122320)
557269.40	3777413.38	205.28722	(23122320)	557289.40	3777413.38	196.43978	(18120207)
557309.40	3777413.38	192.19395	(18120207)	557329.40	3777413.38	185.29631	(18120207)
557349.40	3777413.38	177.85360	(18120207)	557369.40	3777413.38	167.93035	(18120207)
557389.40	3777413.38	158.39977	(21122222)	557409.40	3777413.38	152.54890	(23122120)
557429.40	3777413.38	147.19667	(23122120)	557449.40	3777413.38	142.07553	(23122120)
557469.40	3777413.38	136.67406	(23122120)	557489.40	3777413.38	130.33957	(19011701)
556509.40	3777433.38	550.73259	(23091905)	556529.40	3777433.38	606.42298	(19011708)
556549.40	3777433.38	638.53723	(19011708)	556569.40	3777433.38	661.78527	(19122606)
556589.40	3777433.38	677.50276	(19042503)	556609.40	3777433.38	743.64012	(23123121)
556629.40	3777433.38	779.46170	(19011118)	556649.40	3777433.38	826.52069	(19050406)
556669.40	3777433.38	864.71778	(19050406)	556689.40	3777433.38	889.23236	(21091102)
556709.40	3777433.38	946.74837	(20032007)	556729.40	3777433.38	866.03835	(20032007)
556749.40	3777433.38	615.56721	(21091601)	556769.40	3777433.38	627.10414	(19011519)
556789.40	3777433.38	635.57679	(21120318)	556809.40	3777433.38	639.86798	(23122418)

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        556829.40   3777433.38      643.37301  (21012523)              556849.40
3777433.38      661.65043  (23102701)
        556869.40   3777433.38      696.25145  (21020220)              556889.40
3777433.38      686.73097  (21011317)
        556909.40   3777433.38      654.48211  (23010920)              556929.40
3777433.38      643.50282  (19011619)
        556949.40   3777433.38      613.05254  (21021919)              556969.40
3777433.38      587.56804  (23122321)
        556989.40   3777433.38      512.51503  (23120518)              557009.40
3777433.38      404.30569  (20090303)
        557029.40   3777433.38      323.59228  (21020119)              557049.40
3777433.38      323.19552  (21020119)
        557069.40   3777433.38      299.53682  (21020119)              557089.40
3777433.38      275.25747  (19120718)
        557109.40   3777433.38      256.49821  (19120718)              557129.40
3777433.38      228.31381  (19120718)
        557149.40   3777433.38      214.53295  (21012207)              557169.40
3777433.38      203.04682  (21012207)
        557189.40   3777433.38      206.87449  (18110803)              557209.40
3777433.38      210.88655  (18110803)
        557229.40   3777433.38      209.25202  (23122320)              557249.40
3777433.38      208.09121  (23122320)
        557269.40   3777433.38      201.88371  (23122320)              557289.40
3777433.38      191.95588  (23122320)
        557309.40   3777433.38      180.89529  (23122320)              557329.40
3777433.38      172.43854  (18120207)
        557349.40   3777433.38      168.60631  (18120207)              557369.40
3777433.38      164.13846  (18120207)
        557389.40   3777433.38      159.35661  (18120207)              557409.40
3777433.38      152.47542  (18120207)
        557429.40   3777433.38      143.37901  (18120207)              557449.40
3777433.38      135.99667  (21122222)
        557469.40   3777433.38      132.27558  (23122120)              557489.40
3777433.38      128.45415  (23122120)
        556509.40   3777453.38      556.94111  (19011708)              556529.40
3777453.38      576.99830  (19120722)
        556549.40   3777453.38      595.81755  (19122606)              556569.40
3777453.38      604.99395  (19042503)
        556589.40   3777453.38      666.52218  (23123121)              556609.40
3777453.38      691.77340  (19011118)
        556629.40   3777453.38      738.25192  (20071506)              556649.40
3777453.38      783.03357  (19050406)
        556669.40   3777453.38      778.61516  (19042604)              556689.40
3777453.38      833.63917  (18021301)
        556709.40   3777453.38      829.08349  (20032007)              556729.40
3777453.38      672.81781  (20032007)
        556749.40   3777453.38      527.69257  (21020118)              556769.40
3777453.38      563.77819  (19011519)
        556789.40   3777453.38      573.40007  (21120318)              556809.40
3777453.38      571.96036  (19011407)
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: IDLE   ***
                                  INCLUDING SOURCE(S):   L0000025   , L0000026
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556829.40   3777453.38   577.95397 (21012523)   556849.40
3777453.38   595.84199 (23102701)
        556869.40   3777453.38   629.48870 (19011324)   556889.40
3777453.38   610.87677 (21011317)
        556909.40   3777453.38   594.41452 (21122017)   556929.40
3777453.38   579.53790 (19011703)
        556949.40   3777453.38   558.82841 (18020118)   556969.40
3777453.38   537.43968 (23122321)
        556989.40   3777453.38   501.57459 (23120518)   557009.40
3777453.38   418.68436 (23120518)
        557029.40   3777453.38   326.47036 (20090303)   557049.40
3777453.38   287.84485 (21020119)
        557069.40   3777453.38   285.44595 (21020119)   557089.40
3777453.38   265.13014 (21020119)
        557109.40   3777453.38   245.80327 (19120718)   557129.40
3777453.38   230.25421 (19120718)
        557149.40   3777453.38   208.49246 (19120718)   557169.40
3777453.38   191.37004 (21012207)
        557189.40   3777453.38   184.58588 (21012207)   557209.40
3777453.38   179.50854 (18110803)
        557229.40   3777453.38   184.84248 (18110803)   557249.40
3777453.38   187.11144 (23092605)
        557269.40   3777453.38   186.17644 (23122320)   557289.40
3777453.38   183.64072 (23122320)
        557309.40   3777453.38   178.55776 (23122320)   557329.40
3777453.38   170.43115 (23122320)

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        557349.40   3777453.38      160.65647  (23122320)              557369.40
3777453.38      152.47937  (18120207)
        557389.40   3777453.38      150.81767  (18120207)              557409.40
3777453.38      148.36206  (18120207)
        557429.40   3777453.38      143.61319  (18120207)              557449.40
3777453.38      137.87891  (18120207)
        557469.40   3777453.38      131.20342  (18120207)              557489.40
3777453.38      124.02106  (21122222)
        556509.40   3777473.38      524.45406  (19122606)              556529.40
3777473.38      532.57197  (19122606)
        556549.40   3777473.38      543.19971  (23071405)              556569.40
3777473.38      601.42634  (23123121)
        556589.40   3777473.38      618.91025  (19011118)              556609.40
3777473.38      657.31000  (20071506)
        556629.40   3777473.38      701.42835  (19050406)              556649.40
3777473.38      696.25750  (18042604)
        556669.40   3777473.38      731.15500  (18021301)              556689.40
3777473.38      765.79331  (20032007)
        556709.40   3777473.38      687.55549  (20032007)              556729.40
3777473.38      509.08279  (19082804)
        556749.40   3777473.38      492.85333  (19011519)              556769.40
3777473.38      501.66581  (19011519)
        556789.40   3777473.38      519.01440  (23122418)              556809.40
3777473.38      519.31413  (19011407)
        556829.40   3777473.38      519.50797  (21012523)              556849.40
3777473.38      539.21546  (23102701)
        556869.40   3777473.38      570.32797  (19011324)              556889.40
3777473.38      556.50147  (19121218)
        556909.40   3777473.38      549.12678  (21122017)              556929.40
3777473.38      528.35856  (19011703)
        556949.40   3777473.38      511.08047  (19011619)              556969.40
3777473.38      491.28081  (21021919)
        556989.40   3777473.38      475.36507  (23122321)              557009.40
3777473.38      428.32041  (23120518)
        557029.40   3777473.38      349.17669  (18031005)              557049.40
3777473.38      268.86130  (20090303)
        557069.40   3777473.38      259.84560  (21020119)              557089.40
3777473.38      255.05230  (21020119)
        557109.40   3777473.38      237.43009  (21020119)              557129.40
3777473.38      220.52460  (19021106)
        557149.40   3777473.38      209.03344  (19120718)              557169.40
3777473.38      189.91455  (19120718)
        557189.40   3777473.38      173.61595  (20092604)              557209.40
3777473.38      168.46238  (21012207)
        557229.40   3777473.38      160.15005  (21012207)              557249.40
3777473.38      163.27996  (18110803)
        557269.40   3777473.38      166.68081  (18110803)              557289.40
3777473.38      166.92143  (23092605)
        557309.40   3777473.38      166.60384  (23122320)              557329.40
3777473.38      164.46725  (23122320)
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        557429.40   3777473.38   135.85693 (18120207)   557449.40
3777473.38   134.01105 (18120207)
        557469.40   3777473.38   130.18536 (18120207)   557489.40
3777473.38   125.33517 (18120207)
        556509.40   3777493.38   485.00389 (19042503)   556529.40
3777493.38   499.57155 (23071405)
        556549.40   3777493.38   547.07572 (23123121)   556569.40
3777493.38   556.46836 (19020405)
        556589.40   3777493.38   590.03450 (19011118)   556609.40
3777493.38   629.24569 (19050406)
        556629.40   3777493.38   621.10151 (19050406)   556649.40
3777493.38   649.80116 (21091102)
        556669.40   3777493.38   692.33407 (20032007)   556689.40
3777493.38   671.81037 (20032007)
        556709.40   3777493.38   546.29942 (20032007)   556729.40
3777493.38   437.55410 (21020118)
        556749.40   3777493.38   458.14621 (19011519)   556769.40
3777493.38   458.03372 (21120318)
        556789.40   3777493.38   474.33539 (23122418)   556809.40
3777493.38   471.54487 (19011407)
        556829.40   3777493.38   471.00806 (21012523)   556849.40
3777493.38   488.36255 (23102701)

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        556869.40   3777493.38      516.89142  (19011324)              556889.40
3777493.38      510.48253  (19121218)
        556909.40   3777493.38      505.13154  (21122017)              556929.40
3777493.38      475.77925  (21020922)
        556949.40   3777493.38      470.89431  (19011619)              556969.40
3777493.38      452.83056  (18020118)
        556989.40   3777493.38      441.02483  (23122321)              557009.40
3777493.38      418.53204  (23120518)
        557029.40   3777493.38      362.00382  (23120518)              557049.40
3777493.38      291.66986  (20090303)
        557069.40   3777493.38      227.46556  (21020119)              557089.40
3777493.38      234.88207  (21020119)
        557109.40   3777493.38      230.37965  (21020119)              557129.40
3777493.38      213.71267  (21020119)
        557149.40   3777493.38      200.43306  (19021106)              557169.40
3777493.38      189.97778  (19120718)
        557189.40   3777493.38      174.41212  (19120718)              557209.40
3777493.38      159.13410  (18091703)
        557229.40   3777493.38      153.66034  (21012207)              557249.40
3777493.38      147.95394  (21012207)
        557269.40   3777493.38      143.49606  (18110803)              557289.40
3777493.38      148.54704  (18110803)
        557309.40   3777493.38      150.52009  (18110803)              557329.40
3777493.38      150.25962  (23092605)
        557349.40   3777493.38      150.12765  (23122320)              557369.40
3777493.38      147.70270  (23122320)
        557389.40   3777493.38      143.55663  (23122320)              557409.40
3777493.38      137.71553  (23122320)
        557429.40   3777493.38      129.69963  (23122320)              557449.40
3777493.38      123.60057  (18120207)
        557469.40   3777493.38      123.31361  (18120207)              557489.40
3777493.38      121.32202  (18120207)
        556509.40   3777513.38      457.11091  (23071405)              556529.40
3777513.38      498.94499  (23123121)
        556549.40   3777513.38      508.73741  (19020405)              556569.40
3777513.38      545.37935  (19011118)
        556589.40   3777513.38      573.13215  (19050406)              556609.40
3777513.38      576.02594  (19050406)
        556629.40   3777513.38      588.15301  (21091102)              556649.40
3777513.38      623.73955  (18021301)
        556669.40   3777513.38      637.92568  (20032007)              556689.40
3777513.38      561.96816  (20032007)
        556709.40   3777513.38      424.66448  (19082804)              556729.40
3777513.38      397.86985  (19011519)
        556749.40   3777513.38      421.77365  (19011519)              556769.40
3777513.38      427.33726  (21120318)
        556789.40   3777513.38      435.09563  (23122418)              556809.40
3777513.38      431.25795  (19011407)
        556829.40   3777513.38      429.55788  (23122308)              556849.40
3777513.38      445.03683  (23102701)
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        556869.40   3777513.38      470.34711  (19011324)                556889.40
3777513.38      468.73369  (19121218)
        556909.40   3777513.38      461.04610  (21122017)                556929.40
3777513.38      438.42493  (23010920)
        556949.40   3777513.38      436.51636  (19011703)                556969.40
3777513.38      421.20692  (18020118)
        556989.40   3777513.38      406.19249  (21021919)                557009.40
3777513.38      396.91998  (23122321)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                 INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557029.40   3777513.38      363.72529  (23120518)                557049.40
3777513.38      306.49212  (18031005)
        557069.40   3777513.38      245.80496  (20090303)                557089.40
3777513.38      208.81316  (21020119)
        557109.40   3777513.38      214.08530  (21020119)                557129.40
3777513.38      208.39177  (21020119)
        557149.40   3777513.38      194.17457  (21020119)                557169.40
3777513.38      182.92695  (19021106)
        557189.40   3777513.38      173.67192  (19120718)                557209.40
3777513.38      161.72243  (19120718)
        557229.40   3777513.38      146.24050  (18091703)                557249.40
3777513.38      141.07585  (21012207)
        557269.40   3777513.38      137.02263  (21012207)                557289.40
3777513.38      130.53042  (21012207)
        557309.40   3777513.38      132.48036  (18110803)                557329.40
3777513.38      136.03155  (18110803)
        557349.40   3777513.38      137.15624  (23092605)                557369.40
3777513.38      136.50061  (23122320)
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        557389.40   3777513.38      136.23027  (23122320)              557409.40
3777513.38      134.14292  (23122320)
        557429.40   3777513.38      129.81733  (23122320)              557449.40
3777513.38      124.49098  (23122320)
        557469.40   3777513.38      118.38739  (23122320)              557489.40
3777513.38      112.40578  (18120207)
        556509.40   3777533.38      458.49243  (23123121)              556529.40
3777533.38      469.86396  (19020405)
        556549.40   3777533.38      495.78483  (19011118)              556569.40
3777533.38      516.52730  (19050406)
        556589.40   3777533.38      531.49208  (19050406)              556609.40
3777533.38      528.91788  (18042604)
        556629.40   3777533.38      553.34940  (18021301)              556649.40
3777533.38      584.81126  (20032007)
        556669.40   3777533.38      552.51638  (20032007)              556689.40
3777533.38      451.57494  (20032007)
        556709.40   3777533.38      367.17581  (21020118)              556729.40
3777533.38      378.56618  (19011519)
        556749.40   3777533.38      384.94507  (19011519)              556769.40
3777533.38      395.36784  (21120318)
        556789.40   3777533.38      398.54695  (23122418)              556809.40
3777533.38      396.57460  (19120423)
        556829.40   3777533.38      395.45762  (23122308)              556849.40
3777533.38      408.05376  (23102701)
        556869.40   3777533.38      429.33973  (19011324)              556889.40
3777533.38      430.09370  (19121218)
        556909.40   3777533.38      422.73484  (21011317)              556929.40
3777533.38      406.31018  (21122017)
        556949.40   3777533.38      402.13063  (19011703)              556969.40
3777533.38      389.85492  (19011619)
        556989.40   3777533.38      374.17993  (18020118)              557009.40
3777533.38      369.16360  (23122321)
        557029.40   3777533.38      352.35776  (23120518)              557049.40
3777533.38      313.94779  (23120518)
        557069.40   3777533.38      261.47333  (18031005)              557089.40
3777533.38      207.86817  (20090303)
        557109.40   3777533.38      192.82231  (21020119)              557129.40
3777533.38      196.27013  (21020119)
        557149.40   3777533.38      190.73455  (21020119)              557169.40
3777533.38      177.12605  (21020119)
        557189.40   3777533.38      167.48965  (19021106)              557209.40
3777533.38      160.59551  (19120718)
        557229.40   3777533.38      149.29493  (19120718)              557249.40
3777533.38      136.66930  (19120718)
        557269.40   3777533.38      129.76267  (20092604)              557289.40
3777533.38      126.88712  (21012207)
        557309.40   3777533.38      122.19791  (21012207)              557329.40
3777533.38      118.22139  (18110803)
        557349.40   3777533.38      122.62132  (18110803)              557369.40
3777533.38      124.81156  (18110803)
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        557389.40   3777533.38      124.96416  (23092605)                557409.40
3777533.38      124.99971  (23122320)
        557429.40   3777533.38      124.23235  (23122320)                557449.40
3777533.38      122.10129  (23122320)
        557469.40   3777533.38      118.21946  (23122320)                557489.40
3777533.38      113.45637  (23122320)
        556509.40   3777553.38      433.19801  (19020405)                556529.40
3777553.38      456.87925  (19011118)
        556549.40   3777553.38      469.71237  (19050406)                556569.40
3777553.38      492.24084  (19050406)
        556589.40   3777553.38      485.47544  (18042604)                556609.40
3777553.38      504.26897  (21091102)
 *** AERMOD - VERSION 24142  ***   ***                                  ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE 102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                 INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3777553.38      533.34028  (20032007)
        556669.40   3777553.38      464.15906  (20032007)                556689.40
3777553.38      356.16835  (19082804)
        556709.40   3777553.38      330.88664  (21020118)                556729.40
3777553.38      355.44704  (19011519)
        556749.40   3777553.38      346.53477  (19011519)                556769.40
3777553.38      363.24777  (21120318)
        556789.40   3777553.38      363.76987  (23122418)                556809.40
3777553.38      366.98391  (19120423)
        556829.40   3777553.38      364.37235  (23122308)                556849.40
3777553.38      376.64255  (23102701)
        556869.40   3777553.38      394.76785  (19011324)                556889.40
3777553.38      395.40172  (19121218)
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        556909.40   3777553.38      390.31946  (21011317)              556929.40
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3777553.38      361.61695  (19011619)
        556989.40   3777553.38      351.56389  (18020118)              557009.40
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        557109.40   3777553.38      175.99286  (21012919)              557129.40
3777553.38      178.31403  (21020119)
        557149.40   3777553.38      180.25146  (21020119)              557169.40
3777553.38      174.27533  (21020119)
        557189.40   3777553.38      162.26719  (21020119)              557209.40
3777553.38      154.51923  (19021106)
        557229.40   3777553.38      147.78053  (19120718)              557249.40
3777553.38      138.79716  (19120718)
        557269.40   3777553.38      127.67755  (19120718)              557289.40
3777553.38      120.52670  (20092604)
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3777553.38      114.21036  (21012207)
        557349.40   3777553.38      109.27914  (21012207)              557369.40
3777553.38      110.46679  (18110803)
        557389.40   3777553.38      113.30453  (18110803)              557409.40
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        557429.40   3777553.38      114.93523  (23092605)              557449.40
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        557469.40   3777553.38      113.90267  (23122320)              557489.40
3777553.38      111.27126  (23122320)
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        556586.37   3777056.16      883.27408  (19022022)              556672.35
3776929.14      790.54461  (19020324)
        556692.35   3776929.14      746.08202  (20012218)              556712.35
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        556732.35   3776929.14      802.79239  (19112924)              556752.35
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3776969.14      922.70765  (21010719)
        556692.35   3776969.14      948.05940  (19020324)                556712.35
3776969.14      923.04053  (20012218)
        556732.35   3776969.14      937.37311  (20090403)                556752.35
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        556772.35   3776969.14     1089.98755  (20050906)                556792.35
3776969.14     1084.35955  (19122218)
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3776969.14     1122.59289  (18122018)
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 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE 103
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                 INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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3776989.14     1187.81609  (19122218)
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3776989.14     1245.50511  (18122018)
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        556692.35   3777009.14     1134.32748  (21010719)                556712.35
3777009.14     1146.28521  (19020324)
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        556852.35   3777029.14     1512.08678  (18120320)                556672.35
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3776959.53      999.85572  (20031324)
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3776959.53      925.09179  (21012821)
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3776959.53      338.72693  (23111604)
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3776979.53     1043.49548  (21123005)
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        557007.54   3776979.53      694.25143  (23111604)                557027.54
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3777019.53      750.85063  (23111604)
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        557047.54   3777019.53      180.75174  (21011318)                557067.54
3777019.53      175.71942  (21011318)
        557087.54   3777019.53      183.14816  (19020905)                556927.54
3777039.53     1500.90639  (21012821)
        556947.54   3777039.53     1391.56521  (23111604)                556967.54
3777039.53     1003.50413  (23111604)
        556987.54   3777039.53      553.62290  (23111604)                557007.54
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3777039.53      208.95376  (19020905)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 104
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        556939.02   3777214.93     2029.28293  (20121124)              556919.02
3777234.93     2395.04586  (18120207)
        556939.02   3777234.93     1902.34807  (23122120)              556919.02
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        556939.02   3777254.93     1630.34992  (23122320)              557023.57
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3777171.57      475.27679  (19120324)
        557083.57   3777171.57      436.81063  (19120324)              557023.57
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        557043.57   3777191.57      723.55678  (19120324)              557063.57
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        557083.57   3777191.57      565.96288  (19120324)              557023.57
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        557043.57   3777211.57      782.83698  (19120522)              557063.57
3777211.57      684.08585  (19120522)
        557083.57   3777211.57      595.39898  (19120522)              557023.57
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3776972.85      344.34712  (23092902)
        556269.05   3776972.85      369.24631  (19113019)              556229.05
3776992.85      373.88918  (19122921)
        556249.05   3776992.85      386.74218  (19122921)              556269.05
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3776992.85      396.03427  (19113019)
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3777032.85      344.19508  (21101420)
        556249.05   3777032.85      393.40778  (21101420)              556269.05
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3777032.85      457.45199  (19122921)
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3776927.49      553.03636  (20011220)
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3776947.49      600.87037  (20011220)
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3776967.49      531.25095  (19120424)
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3776967.49      600.96671  (21120418)
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3776987.49      560.42708  (21122822)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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        556481.69   3777007.49      672.93626  (19120424)              556441.69
3777027.49      625.31328  (19113019)
        556461.69   3777027.49      670.24663  (19020201)              556481.69
3777027.49      704.51765  (19020201)
        556251.24   3777154.95      352.60038  (19020922)              556261.28
3777141.20      356.62002  (19081106)
        556264.98   3777168.16      364.14166  (21120218)              556279.25
3777151.77      376.36221  (19020922)
        556202.60   3777113.45      310.50570  (23111620)              556220.05
3777109.75      320.63238  (23111620)
        556187.53   3777090.19      294.86931  (19112020)              556164.27
3777121.38      287.89440  (19081106)
        557510.26   3776508.23      105.29736  (23100204)              557530.26
3776508.23      104.83660  (19062905)
        557550.26   3776508.23      104.86048  (19062905)              557570.26
3776508.23      102.64686  (19062905)
        557590.26   3776508.23       98.82504  (19062905)              557610.26
3776508.23       93.78920  (19062905)
        557630.26   3776508.23       87.28497  (19062905)              557650.26
3776508.23       80.10151  (19062905)
        557670.26   3776508.23       76.18649  (21011318)              557690.26
3776508.23       79.02724  (21011318)
        557510.26   3776528.23      107.66931  (19062905)              557530.26
3776528.23      107.55998  (19062905)
        557550.26   3776528.23      105.28020  (19062905)              557570.26
3776528.23      100.67546  (19062905)
        557590.26   3776528.23       95.13960  (19062905)              557610.26
3776528.23       88.48238  (19062905)
        557630.26   3776528.23       81.09050  (19062905)              557650.26
3776528.23       79.44342  (21011318)
        557670.26   3776528.23       82.06077  (21011318)              557690.26
3776528.23       83.59732  (21011318)
        557510.26   3776548.23      109.82116  (19062905)              557530.26
3776548.23      107.69247  (19062905)
        557550.26   3776548.23      102.37607  (19062905)              557570.26
3776548.23       95.97824  (19062905)
        557590.26   3776548.23       89.24487  (19062905)              557610.26
3776548.23       81.55101  (19062905)
        557630.26   3776548.23       81.80190  (21011318)              557650.26
3776548.23       84.69923  (21011318)
        557670.26   3776548.23       85.86674  (21011318)              557690.26
3776548.23       86.01778  (21011318)
        557510.26   3776568.23      109.12201  (19062905)              557530.26
3776568.23      104.57072  (19062905)
        557550.26   3776568.23       97.75279  (19062905)              557570.26
3776568.23       89.79955  (19062905)
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        557590.26   3776568.23       81.95435  (19062905)                557610.26
3776568.23       83.95760  (21011318)
        557630.26   3776568.23       86.23270  (21011318)                557650.26
3776568.23       87.66821  (21011318)
        557670.26   3776568.23       87.20783  (21011318)                557690.26
3776568.23       85.58793  (21011318)
        557510.26   3776588.23      105.58121  (19062905)                557530.26
3776588.23       99.40299  (19062905)
        557550.26   3776588.23       91.27279  (19062905)                557570.26
3776588.23       83.15375  (21011318)
        557590.26   3776588.23       85.75985  (21011318)                557610.26
3776588.23       87.38534  (21011318)
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3776588.23       88.08264  (21011318)
        557670.26   3776588.23       86.40009  (21011318)                557690.26
3776588.23       83.71598  (21011318)
        557510.26   3776608.23       99.63978  (19062905)                557530.26
3776608.23       92.17904  (19062905)
        557550.26   3776608.23       86.26451  (21011318)                557570.26
3776608.23       88.15952  (21011318)
        557590.26   3776608.23       88.55350  (21011318)                557610.26
3776608.23       88.42074  (21011318)
        557630.26   3776608.23       87.85632  (21011318)                557650.26
3776608.23       85.93380  (21011318)
        557670.26   3776608.23       82.80862  (21011318)                557690.26
3776608.23       78.87207  (21011318)
        557510.26   3776628.23       92.00563  (19062905)                557530.26
3776628.23       88.83859  (21011318)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 106
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        556372.49   3776517.81      209.32451  (19020324)                556392.49
3776517.81      233.23919  (19020324)
        556412.49   3776517.81      230.90930  (19020324)                556432.49
3776517.81      217.14437  (23111719)
        556452.49   3776517.81      228.90104  (23071306)                556472.49
3776517.81      237.91640  (23071306)
        556492.49   3776517.81      222.23026  (23071306)                556172.49
3776537.81      222.44709  (23092301)
        556192.49   3776537.81      230.24349  (20111119)                556212.49
3776537.81      232.73479  (20111119)
        556232.49   3776537.81      229.11068  (18123020)                556252.49
3776537.81      232.46992  (18123020)
        556272.49   3776537.81      227.42367  (20111219)                556292.49
3776537.81      238.47452  (20111219)
        556312.49   3776537.81      232.51779  (21010719)                556332.49
3776537.81      241.29807  (21010719)
        556352.49   3776537.81      241.05496  (18102919)                556372.49
3776537.81      223.90706  (20012518)
        556392.49   3776537.81      224.27151  (19020324)                556412.49
3776537.81      241.39347  (19020324)
        556432.49   3776537.81      231.49366  (19020324)                556452.49
3776537.81      223.01626  (23071306)
        556472.49   3776537.81      245.78757  (23071306)                556492.49
3776537.81      243.67379  (23071306)
        556332.49   3776557.81      250.31278  (21010719)                556352.49
3776557.81      247.69926  (18102919)
        556372.49   3776557.81      246.92124  (18102919)                556392.49
3776557.81      228.87147  (20031603)
        556412.49   3776557.81      249.52744  (19020324)                556432.49
3776557.81      253.22812  (19020324)
        556452.49   3776557.81      231.97442  (23111719)                556472.49
3776557.81      245.47371  (23071306)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 107
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                  INCLUDING SOURCE(S):     L0000025    , L0000026
,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556492.49	3776557.81	258.98975	(23071306)	556332.49	3776577.81	260.93855	(20111219)
556352.49	3776577.81	261.82552	(21010719)	556372.49	3776577.81	262.67365	(18102919)
556392.49	3776577.81	254.75555	(18102919)	556412.49	3776577.81	246.52594	(19020324)
556432.49	3776577.81	265.23462	(19020324)	556452.49	3776577.81	259.60781	(19020324)
556472.49	3776577.81	249.89528	(23111719)	556492.49	3776577.81	266.62083	(23071306)
556332.49	3776597.81	275.99851	(20111219)	556352.49	3776597.81	273.30090	(20111219)
556372.49	3776597.81	274.90421	(21010719)	556392.49	3776597.81	271.37241	(18102919)
556412.49	3776597.81	261.18249	(20012518)	556432.49	3776597.81	264.93710	(19020324)
556452.49	3776597.81	273.93507	(19020324)	556472.49	3776597.81	260.01560	(19020324)
556492.49	3776597.81	265.01744	(23071306)	556252.49	3776617.81	264.89593	(23092301)
556272.49	3776617.81	274.47484	(20111119)	556292.49	3776617.81	275.50437	(20111119)
556312.49	3776617.81	282.04640	(18123020)	556332.49	3776617.81	276.34456	(18123020)
556352.49	3776617.81	290.35273	(20111219)	556372.49	3776617.81	285.90709	(20111219)
556392.49	3776617.81	289.03296	(21010719)	556412.49	3776617.81	290.04202	(18102919)
556432.49	3776617.81	267.82310	(20012518)	556452.49	3776617.81	288.27228	(19020324)
556472.49	3776617.81	285.01890	(19020324)	556492.49	3776617.81	276.30919	(23111719)
556252.49	3776637.81	260.91342	(19011501)	556272.49	3776637.81	278.28150	(23092301)
556292.49	3776637.81	288.17550	(20111119)	556312.49	3776637.81	287.07065	(20111119)
556332.49	3776637.81	297.24835	(18123020)	556352.49	3776637.81	292.54685	(18123020)
556372.49	3776637.81	307.81193	(20111219)	556392.49	3776637.81	295.63190	(21010719)
556412.49	3776637.81	301.43887	(21010719)	556432.49	3776637.81	296.84768	(18102919)
556452.49	3776637.81	278.08044	(19020324)	556472.49	3776637.81	305.15262	(19020324)

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        556492.49   3776637.81      301.26882  (19020324)                556252.49
3776657.81      293.10363  (19011501)
        556272.49   3776657.81      278.55008  (19011501)                556292.49
3776657.81      293.18708  (23092301)
        556312.49   3776657.81      298.97571  (20111119)                556332.49
3776657.81      304.05159  (20111119)
        556352.49   3776657.81      314.89412  (18123020)                556372.49
3776657.81      311.84187  (20111219)
        556392.49   3776657.81      317.59130  (20111219)                556412.49
3776657.81      311.60799  (21010719)
        556432.49   3776657.81      313.47041  (18102919)                556452.49
3776657.81      301.48013  (18102919)
        556472.49   3776657.81      303.55138  (19020324)                556492.49
3776657.81      324.83856  (19020324)
        556252.49   3776677.81      303.70912  (19011501)                556272.49
3776677.81      305.29267  (19011501)
        556292.49   3776677.81      290.29061  (19011501)                556312.49
3776677.81      303.57364  (23092301)
        556332.49   3776677.81      319.37191  (20111119)                556352.49
3776677.81      321.25999  (20111119)
        556372.49   3776677.81      331.89297  (18123020)                556392.49
3776677.81      325.30706  (20111219)
        556412.49   3776677.81      335.03705  (20111219)                556432.49
3776677.81      327.42160  (21010719)
        556452.49   3776677.81      326.73339  (18102919)                556472.49
3776677.81      309.57401  (20012518)
        556492.49   3776677.81      333.31300  (19020324)                556252.49
3776697.81      293.59716  (18031106)
        556272.49   3776697.81      314.31937  (19011501)                556372.49
3776697.81      336.57750  (20111119)
        556392.49   3776697.81      341.17202  (18123020)                556412.49
3776697.81      343.49341  (20111219)
        556432.49   3776697.81      342.94507  (20111219)                556452.49
3776697.81      340.23724  (21010719)
        556472.49   3776697.81      340.86065  (18102919)                556492.49
3776697.81      322.62145  (19020324)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE 108
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  IDLE     ***
                                 INCLUDING SOURCE(S):     L0000025    , L0000026
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                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556252.49   3776717.81      292.05780  (21102119)                556272.49
3776717.81      302.72727  (18031106)
        556372.49   3776717.81      355.38036  (20111119)                556392.49
3776717.81      344.43353  (20111119)
        556412.49   3776717.81      360.15463  (18123020)                556432.49
3776717.81      359.94517  (20111219)
        556452.49   3776717.81      352.63194  (20111219)                556472.49
3776717.81      365.91559  (21010719)
        556492.49   3776717.81      356.92754  (18102919)                556267.40
3776875.81      389.72425  (21012120)
        556239.03   3776853.02      373.17826  (21120418)                556178.76
3776751.21      320.07557  (20011220)
        556154.45   3776774.51      316.33990  (21120418)                556119.50
3776705.11      285.59783  (20011220)
        556146.51   3777267.93      271.74859  (20020620)                556151.00
3777234.88      274.28839  (21100603)
        556144.93   3777179.58      279.81285  (21120218)                556205.18
3777236.46      303.49136  (21100603)
        556218.00   3777200.04      313.08323  (23071605)                556772.00
3777345.97     1604.14613  (20032007)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 109
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556521.71	3777341.57	1213.48642	(23050706)	556539.90	3777344.94	1255.17712	(20121320)
556591.78	3777345.39	1517.32212	(19042706)	556630.62	3777349.66	1613.93300	(23091905)
556684.29	3777349.43	1856.51683	(21091605)	556905.58	3777351.19	2781.72445	(19011703)
556920.93	3777350.82	2921.36222	(18020118)	556942.87	3777350.09	2830.94913	(23120518)
556996.26	3777348.26	1634.54692	(19120718)	557096.81	3777357.77	1060.06978	(23122320)
557115.83	3777363.62	963.97725	(23122320)	557129.36	3777361.43	936.31246	(18120207)
557230.65	3777363.99	683.46383	(23122120)	556466.22	3776816.07	937.95542	(20111119)
556407.87	3776826.19	919.10738	(19011501)	556381.07	3776807.14	877.38398	(19011501)
556404.29	3776771.52	822.64561	(20111119)	556465.21	3776739.51	775.37227	(20111219)
556396.10	3776739.93	783.71380	(20111119)	556323.99	3777265.43	1069.80844	(19042702)
556330.60	3777233.99	1157.37551	(20020620)	556321.08	3777200.43	1172.61402	(19011624)
556275.11	3777267.81	958.75277	(19042702)	556278.28	3777233.46	1019.13256	(19042703)
556509.40	3777373.38	1094.49212	(19042706)	556529.40	3777373.38	1184.03037	(19042706)
556549.40	3777373.38	1266.64653	(19042706)	556569.40	3777373.38	1315.30048	(19042706)
556589.40	3777373.38	1334.69359	(23091905)	556609.40	3777373.38	1422.52957	(21010318)
556629.40	3777373.38	1502.91196	(19122606)	556649.40	3777373.38	1547.46784	(19042503)
556669.40	3777373.38	1646.99869	(23123121)	556689.40	3777373.38	1777.54808	(20071506)
556709.40	3777373.38	1879.30102	(19050406)	556729.40	3777373.38	1900.83641	(21091102)
556749.40	3777373.38	1980.86283	(20032007)	556769.40	3777373.38	1716.21429	(21091601)
556789.40	3777373.38	1425.76589	(19011519)	556809.40	3777373.38	1485.51368	(21120318)

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        556829.40   3777373.38     1576.08010  (19011407)               556849.40
3777373.38     1700.50634  (23091404)
        556869.40   3777373.38     1889.25281  (19121218)               556889.40
3777373.38     2145.66931  (21011317)
        556909.40   3777373.38     2267.94989  (19011703)               556929.40
3777373.38     2386.88329  (18020118)
        556949.40   3777373.38     2356.31106  (23120518)               556969.40
3777373.38     1896.44066  (20090303)
        556989.40   3777373.38     1534.79699  (21020119)               557009.40
3777373.38     1348.49905  (19120718)
        557029.40   3777373.38     1175.51076  (19120718)               557049.40
3777373.38     1102.29560  (18110803)
        557069.40   3777373.38     1086.57550  (18110803)               557089.40
3777373.38     1045.73923  (23122320)
        557109.40   3777373.38      983.12984  (23122320)               557129.40
3777373.38      905.44315  (23122320)
        557149.40   3777373.38      848.43948  (18120207)               557169.40
3777373.38      808.93824  (18120207)
        557189.40   3777373.38      765.33932  (18120207)               557209.40
3777373.38      716.74858  (18120207)
        557229.40   3777373.38      671.16337  (23122120)               557249.40
3777373.38      641.28311  (23122120)
        557269.40   3777373.38      608.75688  (23122120)               557289.40
3777373.38      577.25532  (23122120)
        557309.40   3777373.38      551.02778  (19011701)               557329.40
3777373.38      524.90405  (19011701)
        557349.40   3777373.38      501.02405  (19011701)               557369.40
3777373.38      477.02341  (20013120)
        557389.40   3777373.38      458.16358  (20013120)               557409.40
3777373.38      439.07819  (20013120)
        557429.40   3777373.38      418.73531  (20013120)               557449.40
3777373.38      400.14626  (20013120)
        557469.40   3777373.38      380.86727  (20013120)               557489.40
3777373.38      362.38527  (18120107)
        556509.40   3777393.38     1112.11077  (19042706)               556529.40
3777393.38     1157.45124  (19042706)
        556549.40   3777393.38     1174.95345  (19042706)               556569.40
3777393.38     1204.67952  (23091905)
        556589.40   3777393.38     1284.78135  (21010318)               556609.40
3777393.38     1345.65030  (19122606)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE 110
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                  L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                  L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , L0000103   ,
                  L0000104   , L0000105   , L0000106   , L0000025   , L0000026
, L0000107   , L0000108   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556629.40   3777393.38   1388.76987 (19042503)   556649.40
3777393.38   1464.99133 (23123121)
        556669.40   3777393.38   1551.99031 (20071506)   556689.40
3777393.38   1646.51354 (19050406)
        556709.40   3777393.38   1656.23942 (21091102)   556729.40
3777393.38   1757.31456 (20032007)
        556749.40   3777393.38   1678.24588 (20032007)   556769.40
3777393.38   1446.13976 (21091601)
        556789.40   3777393.38   1287.28536 (19011519)   556809.40
3777393.38   1338.34816 (21120318)
        556829.40   3777393.38   1422.41957 (19011407)   556849.40
3777393.38   1513.96729 (23091404)
        556869.40   3777393.38   1650.46153 (19011324)   556889.40
3777393.38   1862.20859 (19121218)
        556909.40   3777393.38   1941.99973 (23121718)   556929.40
3777393.38   2038.07304 (18020118)
        556949.40   3777393.38   2032.83481 (23122321)   556969.40
3777393.38   1866.49466 (23120518)
        556989.40   3777393.38   1411.59293 (20090303)   557009.40
3777393.38   1256.70139 (21020119)
        557029.40   3777393.38   1120.34079 (19120718)   557049.40
3777393.38   1000.93583 (19120718)
        557069.40   3777393.38   885.67710 (21012207)   557089.40
3777393.38   906.45362 (18110803)
        557109.40   3777393.38   893.73962 (18110803)   557129.40
3777393.38   864.13459 (23122320)
        557149.40   3777393.38   822.64002 (23122320)   557169.40
3777393.38   764.97807 (23122320)
        557189.40   3777393.38   718.51097 (18120207)   557209.40
3777393.38   696.53606 (18120207)

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        557229.40   3777393.38      666.68875  (18120207)              557249.40
3777393.38      628.76242  (18120207)
        557269.40   3777393.38      591.21204  (21122222)              557289.40
3777393.38      560.72568  (23122120)
        557309.40   3777393.38      537.03036  (23122120)              557329.40
3777393.38      515.89706  (23122120)
        557349.40   3777393.38      491.80264  (23122120)              557369.40
3777393.38      471.14192  (19011701)
        557389.40   3777393.38      453.23444  (19011701)              557409.40
3777393.38      433.28870  (19011701)
        557429.40   3777393.38      413.58193  (19011701)              557449.40
3777393.38      398.38384  (20013120)
        557469.40   3777393.38      383.07554  (20013120)              557489.40
3777393.38      366.28755  (20013120)
        556509.40   3777413.38     1057.61877  (19042706)              556529.40
3777413.38     1056.61260  (23091905)
        556549.40   3777413.38     1113.96678  (21010318)              556569.40
3777413.38     1171.14527  (21010318)
        556589.40   3777413.38     1222.27565  (19122606)              556609.40
3777413.38     1251.83930  (19042503)
        556629.40   3777413.38     1328.84360  (23123121)              556649.40
3777413.38     1394.23821  (19011118)
        556669.40   3777413.38     1474.45880  (19050406)              556689.40
3777413.38     1478.67285  (19050406)
        556709.40   3777413.38     1540.24677  (20032007)              556729.40
3777413.38     1579.88385  (20032007)
        556749.40   3777413.38     1418.98960  (21091601)              556769.40
3777413.38     1258.53751  (21091601)
        556789.40   3777413.38     1170.84121  (19011519)              556809.40
3777413.38     1229.35857  (23122418)
        556829.40   3777413.38     1296.13737  (19011407)              556849.40
3777413.38     1369.77366  (23091404)
        556869.40   3777413.38     1485.02441  (18042404)              556889.40
3777413.38     1643.45963  (19121218)
        556909.40   3777413.38     1714.69524  (21122017)              556929.40
3777413.38     1758.24796  (19011619)
        556949.40   3777413.38     1751.64815  (18020118)              556969.40
3777413.38     1725.72194  (23120518)
        556989.40   3777413.38     1449.65401  (23120518)              557009.40
3777413.38     1097.85580  (21020119)
        557029.40   3777413.38     1052.16616  (21020119)              557049.40
3777413.38      952.74656  (19120718)
        557069.40   3777413.38      868.58890  (19120718)              557089.40
3777413.38      767.77515  (21012207)
        557109.40   3777413.38      760.88141  (18110803)              557129.40
3777413.38      764.71428  (18110803)
        557149.40   3777413.38      756.28359  (23122320)              557169.40
3777413.38      734.91916  (23122320)
        557189.40   3777413.38      702.42511  (23122320)              557209.40
3777413.38      662.00798  (23122320)
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                  L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                  L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , L0000103   ,
                  L0000104   , L0000105   , L0000106   , L0000025   , L0000026
, L0000107   , L0000108   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        557229.40   3777413.38   622.02310 (18120207)   557249.40
3777413.38   605.67440 (18120207)
        557269.40   3777413.38   583.85308 (18120207)   557289.40
3777413.38   557.14726 (18120207)
        557309.40   3777413.38   527.04495 (18120207)   557329.40
3777413.38   497.52938 (21122222)
        557349.40   3777413.38   479.83289 (23122120)   557369.40
3777413.38   461.89431 (23122120)
        557389.40   3777413.38   445.18847 (23122120)   557409.40
3777413.38   426.72252 (23122120)
        557429.40   3777413.38   407.50782 (19011701)   557449.40
3777413.38   393.75462 (19011701)
        557469.40   3777413.38   379.83645 (19011701)   557489.40
3777413.38   363.27469 (19011701)
        556509.40   3777433.38   983.01438 (23091905)   556529.40
3777433.38   1031.05147 (21010318)
        556549.40   3777433.38   1069.19914 (19122606)   556569.40
3777433.38   1106.75273 (19122606)
        556589.40   3777433.38   1138.43519 (19042503)   556609.40
3777433.38   1205.69523 (23123121)

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        556629.40   3777433.38     1268.68379  (19011118)              556649.40
3777433.38     1332.12907  (19050406)
        556669.40   3777433.38     1365.12487  (19050406)              556689.40
3777433.38     1393.87338  (21091102)
        556709.40   3777433.38     1456.43060  (20032007)              556729.40
3777433.38     1389.97667  (20032007)
        556749.40   3777433.38     1245.12886  (21091601)              556769.40
3777433.38     1124.19599  (21091601)
        556789.40   3777433.38     1071.51131  (21120318)              556809.40
3777433.38     1130.11997  (23122418)
        556829.40   3777433.38     1186.34610  (19011407)              556849.40
3777433.38     1240.26666  (23091404)
        556869.40   3777433.38     1334.03421  (18042404)              556889.40
3777433.38     1461.92958  (19121218)
        556909.40   3777433.38     1528.35437  (21122017)              556929.40
3777433.38     1538.12862  (19011703)
        556949.40   3777433.38     1578.08306  (18020118)              556969.40
3777433.38     1548.10691  (23122321)
        556989.40   3777433.38     1422.26800  (23120518)              557009.40
3777433.38     1143.55565  (20090303)
        557029.40   3777433.38      951.03639  (21020119)              557049.40
3777433.38      907.52488  (21020119)
        557069.40   3777433.38      829.03993  (19120718)              557089.40
3777433.38      765.08604  (19120718)
        557109.40   3777433.38      677.28243  (19120718)              557129.40
3777433.38      641.82003  (21012207)
        557149.40   3777433.38      660.95186  (18110803)              557169.40
3777433.38      659.98043  (18110803)
        557189.40   3777433.38      652.46816  (23122320)              557209.40
3777433.38      638.58827  (23122320)
        557229.40   3777433.38      610.04910  (23122320)              557249.40
3777433.38      578.37078  (23122320)
        557269.40   3777433.38      543.46021  (18120207)              557289.40
3777433.38      531.67427  (18120207)
        557309.40   3777433.38      517.89445  (18120207)              557329.40
3777433.38      496.64913  (18120207)
        557349.40   3777433.38      470.96301  (18120207)              557369.40
3777433.38      446.84528  (21122222)
        557389.40   3777433.38      428.89035  (21122222)              557409.40
3777433.38      417.70680  (23122120)
        557429.40   3777433.38      401.65860  (23122120)              557449.40
3777433.38      387.47974  (23122120)
        557469.40   3777433.38      372.05483  (23122120)              557489.40
3777433.38      357.86031  (19011701)
        556509.40   3777453.38      958.38216  (21010318)              556529.40
3777453.38      990.99910  (19122606)
        556549.40   3777453.38     1019.11971  (19122606)              556569.40
3777453.38     1040.73773  (19042503)
        556589.40   3777453.38     1100.97249  (23123121)              556609.40
3777453.38     1150.21388  (19011118)
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        556629.40   3777453.38     1211.79094  (20071506)                556649.40
3777453.38     1262.02853  (19050406)
        556669.40   3777453.38     1252.33286  (21091102)                556689.40
3777453.38     1313.71307  (20032007)
        556709.40   3777453.38     1321.31433  (20032007)                556729.40
3777453.38     1222.29631  (21091601)
        556749.40   3777453.38     1111.20694  (21091601)                556769.40
3777453.38     1011.32650  (21091601)
        556789.40   3777453.38     1002.06621  (21120318)                556809.40
3777453.38     1045.21243  (23122418)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 112
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        556829.40   3777453.38     1096.43943  (19011407)                556849.40
3777453.38     1142.09728  (23091404)
        556869.40   3777453.38     1220.80666  (18042404)                556889.40
3777453.38     1312.24629  (19121218)
        556909.40   3777453.38     1366.99694  (21122017)                556929.40
3777453.38     1342.14676  (19011703)
        556949.40   3777453.38     1385.92847  (18020118)                556969.40
3777453.38     1358.06762  (21021919)
        556989.40   3777453.38     1336.56685  (23120518)                557009.40
3777453.38     1159.56406  (23120518)
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        557029.40   3777453.38      906.59072  (20090303)              557049.40
3777453.38      830.90069  (21020119)
        557069.40   3777453.38      790.18154  (21020119)              557089.40
3777453.38      730.06459  (19120718)
        557109.40   3777453.38      682.55980  (19120718)              557129.40
3777453.38      611.19902  (19120718)
        557149.40   3777453.38      577.56285  (21012207)              557169.40
3777453.38      567.27353  (18110803)
        557189.40   3777453.38      579.88527  (18110803)              557209.40
3777453.38      580.36689  (18110803)
        557229.40   3777453.38      572.17098  (23122320)              557249.40
3777453.38      561.17922  (23122320)
        557269.40   3777453.38      538.92140  (23122320)              557289.40
3777453.38      510.48478  (23122320)
        557309.40   3777453.38      480.13036  (18120207)              557329.40
3777453.38      473.10640  (18120207)
        557349.40   3777453.38      462.02969  (18120207)              557369.40
3777453.38      444.65700  (18120207)
        557389.40   3777453.38      427.56514  (18120207)              557409.40
3777453.38      410.41849  (18120207)
        557429.40   3777453.38      391.04326  (21122222)              557449.40
3777453.38      375.43596  (23122120)
        557469.40   3777453.38      365.21613  (23122120)              557489.40
3777453.38      353.13077  (23122120)
        556509.40   3777473.38      921.90797  (19122606)              556529.40
3777473.38      933.92926  (19122606)
        556549.40   3777473.38      956.02195  (19042503)              556569.40
3777473.38     1011.60853  (23123121)
        556589.40   3777473.38     1049.84951  (19011118)              556609.40
3777473.38     1102.08431  (20071506)
        556629.40   3777473.38     1154.54213  (19050406)              556649.40
3777473.38     1140.98881  (19050406)
        556669.40   3777473.38     1183.31914  (21091102)              556689.40
3777473.38     1230.27722  (20032007)
        556709.40   3777473.38     1180.58291  (20032007)              556729.40
3777473.38     1092.61842  (21091601)
        556749.40   3777473.38      990.52416  (21091601)              556769.40
3777473.38      912.99617  (19011519)
        556789.40   3777473.38      936.17191  (21120318)              556809.40
3777473.38      968.93661  (23122418)
        556829.40   3777473.38     1011.00889  (19011407)              556849.40
3777473.38     1054.28257  (23091404)
        556869.40   3777473.38     1119.96851  (18042404)              556889.40
3777473.38     1189.59759  (19121218)
        556909.40   3777473.38     1232.55261  (21011317)              556929.40
3777473.38     1231.50506  (23121718)
        556949.40   3777473.38     1245.21001  (19011619)              556969.40
3777473.38     1249.36729  (18020118)
        556989.40   3777473.38     1232.67239  (23122321)              557009.40
3777473.38     1150.70881  (23120518)
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        557029.40   3777473.38      949.47520  (18031005)               557049.40
3777473.38      735.36175  (20090303)
        557069.40   3777473.38      740.13165  (21020119)               557089.40
3777473.38      698.98351  (21020119)
        557109.40   3777473.38      652.22547  (19120718)               557129.40
3777473.38      612.33439  (19120718)
        557149.40   3777473.38      557.64138  (19120718)               557169.40
3777473.38      518.48080  (21012207)
        557189.40   3777473.38      496.23292  (21012207)               557209.40
3777473.38      510.62348  (18110803)
        557229.40   3777473.38      516.50426  (18110803)               557249.40
3777473.38      514.79666  (18110803)
        557269.40   3777473.38      509.66150  (23122320)               557289.40
3777473.38      497.55279  (23122320)
        557309.40   3777473.38      479.98421  (23122320)               557329.40
3777473.38      457.49670  (23122320)
        557349.40   3777473.38      430.29540  (23122320)               557369.40
3777473.38      423.93891  (18120207)
        557389.40   3777473.38      414.94892  (18120207)               557409.40
3777473.38      404.60068  (18120207)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 113
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
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        557429.40   3777473.38      389.91760  (18120207)                557449.40
3777473.38      375.93805  (18120207)
        557469.40   3777473.38      358.04460  (18120207)                557489.40
3777473.38      342.22490  (21122222)
        556509.40   3777493.38      872.85591  (19042503)                556529.40
3777493.38      892.49595  (19042503)
        556549.40   3777493.38      936.45006  (23123121)                556569.40
3777493.38      957.35769  (19050706)
        556589.40   3777493.38     1005.44665  (20071506)                556609.40
3777493.38     1056.75998  (19050406)
        556629.40   3777493.38     1060.09280  (19050406)                556649.40
3777493.38     1080.15414  (21091102)
        556669.40   3777493.38     1131.36643  (20032007)                556689.40
3777493.38     1131.90913  (20032007)
        556709.40   3777493.38     1058.37095  (19082804)                556729.40
3777493.38      982.41508  (21091601)
        556749.40   3777493.38      885.21867  (21091601)                556769.40
3777493.38      851.15924  (19011519)
        556789.40   3777493.38      876.42313  (21120318)                556809.40
3777493.38      897.24098  (23122418)
        556829.40   3777493.38      937.01263  (19011407)                556849.40
3777493.38      972.14307  (23091404)
        556869.40   3777493.38     1028.47409  (18042404)                556889.40
3777493.38     1085.34221  (19121218)
        556909.40   3777493.38     1120.43796  (21011317)                556929.40
3777493.38     1134.49365  (21122017)
        556949.40   3777493.38     1136.19300  (19011703)                556969.40
3777493.38     1140.54799  (18020118)
        556989.40   3777493.38     1112.60239  (23122321)                557009.40
3777493.38     1095.10220  (23120518)
        557029.40   3777493.38      973.79707  (23120518)                557049.40
3777493.38      788.98516  (20090303)
        557069.40   3777493.38      665.69558  (21020119)                557089.40
3777493.38      662.30283  (21020119)
        557109.40   3777493.38      626.86913  (21020119)                557129.40
3777493.38      586.75597  (19120718)
        557149.40   3777493.38      556.31002  (19120718)                557169.40
3777493.38      509.25698  (19120718)
        557189.40   3777493.38      469.22773  (21012207)                557209.40
3777493.38      455.41797  (21012207)
        557229.40   3777493.38      448.69101  (18110803)                557249.40
3777493.38      460.60449  (18110803)
        557269.40   3777493.38      464.33333  (18110803)                557289.40
3777493.38      461.06207  (23122320)
        557309.40   3777493.38      456.39629  (23122320)                557329.40
3777493.38      446.29678  (23122320)
        557349.40   3777493.38      431.14665  (23122320)                557369.40
3777493.38      411.33233  (23122320)
        557389.40   3777493.38      389.24472  (23122320)                557409.40
3777493.38      383.00751  (18120207)
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        557429.40   3777493.38      374.80133  (18120207)                557449.40
3777493.38      367.15871  (18120207)
        557469.40   3777493.38      357.58675  (18120207)                557489.40
3777493.38      344.43500  (18120207)
        556509.40   3777513.38      829.42751  (19042503)                556529.40
3777513.38      868.89607  (23123121)
        556549.40   3777513.38      889.00125  (19050706)                556569.40
3777513.38      944.44500  (19011118)
        556589.40   3777513.38      980.92915  (19050406)                556609.40
3777513.38      994.87666  (19050406)
        556629.40   3777513.38      997.35152  (21091102)                556649.40
3777513.38     1028.73834  (20032007)
        556669.40   3777513.38     1071.65683  (20032007)                556689.40
3777513.38     1026.13931  (20032007)
        556709.40   3777513.38      955.96897  (21091601)                556729.40
3777513.38      880.77216  (21091601)
        556749.40   3777513.38      786.60934  (21091601)                556769.40
3777513.38      794.60896  (19011519)
        556789.40   3777513.38      823.96231  (21120318)                556809.40
3777513.38      837.31305  (19011407)
        556829.40   3777513.38      869.48822  (19120423)                556849.40
3777513.38      900.18347  (23091404)
        556869.40   3777513.38      948.22269  (18042404)                556889.40
3777513.38      994.25266  (19121218)
        556909.40   3777513.38     1029.11674  (19121218)                556929.40
3777513.38     1049.01086  (21122017)
        556949.40   3777513.38     1031.86844  (19011703)                556969.40
3777513.38     1036.03403  (19011619)
        556989.40   3777513.38     1018.23798  (18020118)                557009.40
3777513.38     1019.83144  (23122321)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE 114
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557029.40	3777513.38	957.86302	(23120518)	557049.40	3777513.38	817.97504	(23120518)
557069.40	3777513.38	658.97178	(20090303)	557089.40	3777513.38	605.31332	(21020119)
557109.40	3777513.38	599.06588	(21020119)	557129.40	3777513.38	564.16391	(21020119)
557149.40	3777513.38	533.47842	(19120718)	557169.40	3777513.38	507.84612	(19120718)
557189.40	3777513.38	467.72730	(19120718)	557209.40	3777513.38	430.70917	(20092604)
557229.40	3777513.38	417.73018	(21012207)	557249.40	3777513.38	401.18326	(21012207)
557269.40	3777513.38	411.42173	(18110803)	557289.40	3777513.38	418.60047	(18110803)
557309.40	3777513.38	420.07133	(18110803)	557329.40	3777513.38	417.99023	(23122320)
557349.40	3777513.38	413.50706	(23122320)	557369.40	3777513.38	403.56617	(23122320)
557389.40	3777513.38	390.40893	(23122320)	557409.40	3777513.38	374.04943	(23122320)
557429.40	3777513.38	353.43719	(23122320)	557449.40	3777513.38	346.27050	(18120207)
557469.40	3777513.38	342.42950	(18120207)	557489.40	3777513.38	336.27634	(18120207)
556509.40	3777533.38	811.95671	(23123121)	556529.40	3777533.38	833.37082	(19050706)
556549.40	3777533.38	873.88111	(19011118)	556569.40	3777533.38	900.88057	(19050406)
556589.40	3777533.38	929.70484	(19050406)	556609.40	3777533.38	914.77623	(21102406)
556629.40	3777533.38	952.74404	(21091102)	556649.40	3777533.38	990.30670	(20032007)
556669.40	3777533.38	982.05664	(20032007)	556689.40	3777533.38	926.33971	(19082804)
556709.40	3777533.38	862.13052	(21091601)	556729.40	3777533.38	783.61791	(21091601)
556749.40	3777533.38	739.39936	(19011519)	556769.40	3777533.38	746.79048	(21120318)
556789.40	3777533.38	777.59860	(23122418)	556809.40	3777533.38	790.02835	(19011407)

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        556829.40   3777533.38      813.46964  (19120423)               556849.40
3777533.38      837.27721  (23091404)
        556869.40   3777533.38      876.87778  (18042404)               556889.40
3777533.38      921.31939  (19011324)
        556909.40   3777533.38      955.16888  (19121218)               556929.40
3777533.38      968.80797  (21122017)
        556949.40   3777533.38      935.97349  (23010920)               556969.40
3777533.38      947.56955  (19011619)
        556989.40   3777533.38      950.34856  (18020118)               557009.40
3777533.38      931.42373  (23122321)
        557029.40   3777533.38      911.78432  (23120518)               557049.40
3777533.38      828.61047  (23120518)
        557069.40   3777533.38      692.06992  (18031005)               557089.40
3777533.38      552.70783  (20090303)
        557109.40   3777533.38      554.67898  (21020119)               557129.40
3777533.38      546.02739  (21020119)
        557149.40   3777533.38      514.50689  (21020119)               557169.40
3777533.38      487.40224  (19120718)
        557189.40   3777533.38      465.32900  (19120718)               557209.40
3777533.38      434.45576  (19120718)
        557229.40   3777533.38      395.71629  (18091703)               557249.40
3777533.38      385.72692  (21012207)
        557269.40   3777533.38      372.54151  (21012207)               557289.40
3777533.38      367.16860  (18110803)
        557309.40   3777533.38      378.08399  (18110803)               557329.40
3777533.38      383.09061  (18110803)
        557349.40   3777533.38      382.72038  (18110803)               557369.40
3777533.38      380.74860  (23122320)
        557389.40   3777533.38      375.20935  (23122320)               557409.40
3777533.38      367.79155  (23122320)
        557429.40   3777533.38      355.54217  (23122320)               557449.40
3777533.38      340.97022  (23122320)
        557469.40   3777533.38      323.06206  (23122320)               557489.40
3777533.38      315.47621  (18120207)
        556509.40   3777553.38      782.03592  (23123121)               556529.40
3777553.38      818.77660  (19011118)
        556549.40   3777553.38      837.16770  (20071506)               556569.40
3777553.38      872.25727  (19050406)
        556589.40   3777553.38      868.26512  (19050406)               556609.40
3777553.38      882.29960  (21091102)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE 115
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                 L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                 L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , L0000103   ,
                 L0000104   , L0000105   , L0000106   , L0000025   , L0000026
, L0000107   , L0000108   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556629.40   3777553.38   908.28016 (20032007)   556649.40
3777553.38   937.30523 (20032007)
        556669.40   3777553.38   896.04276 (20032007)   556689.40
3777553.38   834.20161 (19082804)
        556709.40   3777553.38   770.67911 (21091601)   556729.40
3777553.38   689.58249 (21091601)
        556749.40   3777553.38   694.19591 (19011519)   556769.40
3777553.38   707.15323 (21120318)
        556789.40   3777553.38   732.86045 (23122418)   556809.40
3777553.38   745.92604 (19011407)
        556829.40   3777553.38   759.94056 (19120423)   556849.40
3777553.38   782.82771 (23091404)
        556869.40   3777553.38   816.39627 (18042404)   556889.40
3777553.38   856.56279 (19011324)
        556909.40   3777553.38   889.13298 (19121218)   556929.40
3777553.38   901.57604 (21122017)
        556949.40   3777553.38   867.14853 (23121718)   556969.40
3777553.38   878.94891 (19011703)
        556989.40   3777553.38   874.16229 (18020118)   557009.40
3777553.38   849.77427 (21021919)
        557029.40   3777553.38   852.01741 (23122321)   557049.40
3777553.38   810.00291 (23120518)
        557069.40   3777553.38   709.58491 (23120518)   557089.40
3777553.38   589.48147 (20090303)
        557109.40   3777553.38   498.78378 (21020119)   557129.40
3777553.38   509.77294 (21020119)
        557149.40   3777553.38   499.25480 (21020119)   557169.40
3777553.38   468.95816 (21020119)
        557189.40   3777553.38   447.48430 (19120718)   557209.40
3777553.38   429.74007 (19120718)

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        557229.40   3777553.38      401.55417  (19120718)              557249.40
3777553.38      367.30704  (19120718)
        557269.40   3777553.38      355.29548  (21012207)              557289.40
3777553.38      346.67733  (21012207)
        557309.40   3777553.38      332.65052  (21012207)              557329.40
3777553.38      340.65604  (18110803)
        557349.40   3777553.38      348.83618  (18110803)              557369.40
3777553.38      351.88423  (18110803)
        557389.40   3777553.38      349.27200  (18110803)              557409.40
3777553.38      348.68087  (23122320)
        557429.40   3777553.38      344.26017  (23122320)              557449.40
3777553.38      336.74947  (23122320)
        557469.40   3777553.38      325.70789  (23122320)              557489.40
3777553.38      311.21383  (23122320)
        557438.91   3777336.71      416.48297  (21123002)              556615.91
3777136.99     2783.12893  (19122921)
        556586.37   3777056.16     1875.94694  (21120418)              556672.35
3776929.14     1711.84247  (19020324)
        556692.35   3776929.14     1611.17112  (19020324)              556712.35
3776929.14     1593.72338  (20090403)
        556732.35   3776929.14     1659.66618  (19112924)              556752.35
3776929.14     1837.44845  (20050906)
        556772.35   3776929.14     1887.35220  (20050906)              556792.35
3776929.14     1760.99052  (19122218)
        556812.35   3776929.14     1717.11194  (20092605)              556832.35
3776929.14     1662.45623  (18122018)
        556852.35   3776929.14     1667.61972  (18120320)              556672.35
3776949.14     1797.68738  (19020324)
        556692.35   3776949.14     1843.49077  (19020324)              556712.35
3776949.14     1684.66718  (23111719)
        556732.35   3776949.14     1761.92408  (19112924)              556752.35
3776949.14     1874.66158  (20050906)
        556772.35   3776949.14     2052.23429  (20050906)              556792.35
3776949.14     1894.25443  (19122218)
        556812.35   3776949.14     1845.78318  (18030104)              556832.35
3776949.14     1781.91899  (18122018)
        556852.35   3776949.14     1787.54854  (18120320)              556672.35
3776969.14     1890.24922  (21010719)
        556692.35   3776969.14     2000.41815  (19020324)              556712.35
3776969.14     1948.76977  (19020324)
        556732.35   3776969.14     1868.62127  (20090403)              556752.35
3776969.14     1936.17273  (20110318)
        556772.35   3776969.14     2201.38071  (20050906)              556792.35
3776969.14     2124.54912  (20050906)
        556812.35   3776969.14     1979.80395  (18030104)              556832.35
3776969.14     1925.21921  (20092605)
        556852.35   3776969.14     1926.52655  (18120320)              556672.35
3776989.14     2043.51248  (21010719)
        556692.35   3776989.14     2054.08021  (18102919)              556712.35
3776989.14     2208.86168  (19020324)
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                  L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                  L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , L0000103   ,
                  L0000104   , L0000105   , L0000106   , L0000025   , L0000026
, L0000107   , L0000108   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556732.35   3776989.14   2037.12458 (23111719)   556752.35
3776989.14   2106.27783 (20110318)
        556772.35   3776989.14   2323.31540 (20050906)   556792.35
3776989.14   2394.55490 (20050906)
        556812.35   3776989.14   2193.62750 (19122218)   556832.35
3776989.14   2108.95587 (20092605)
        556852.35   3776989.14   2088.08123 (18120320)   556672.35
3777009.14   2157.16237 (18123020)
        556692.35   3777009.14   2268.83089 (21010719)   556712.35
3777009.14   2342.56010 (19020324)
        556732.35   3777009.14   2399.81775 (19020324)   556752.35
3777009.14   2243.85031 (20090403)
        556772.35   3777009.14   2402.64302 (20050906)   556792.35
3777009.14   2658.42872 (20050906)
        556812.35   3777009.14   2423.72122 (19122218)   556832.35
3777009.14   2312.81003 (20092605)
        556852.35   3777009.14   2275.60683 (18120320)   556672.35
3777029.14   2232.17010 (18123020)
        556692.35   3777029.14   2389.58568 (18123020)   556712.35
3777029.14   2536.21150 (21010719)

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        556732.35   3777029.14     2677.76594  (19020324)                556752.35
3777029.14     2540.33769  (19020324)
        556772.35   3777029.14     2583.53792  (20110318)                556792.35
3777029.14     2905.90509  (20050906)
        556812.35   3777029.14     2687.36966  (20050906)                556832.35
3777029.14     2555.58154  (20092605)
        556852.35   3777029.14     2492.48951  (18120320)                556672.35
3777049.14     2353.95910  (19011501)
        556692.35   3777049.14     2513.67382  (18123020)                556712.35
3777049.14     2710.02596  (20111219)
        556732.35   3777049.14     2825.99820  (18102919)                556752.35
3777049.14     3022.99026  (19020324)
        556772.35   3777049.14     2774.53929  (20090403)                556792.35
3777049.14     3113.45105  (20050906)
        556812.35   3777049.14     3119.90053  (20050906)                556832.35
3777049.14     2837.41450  (20092605)
        556852.35   3777049.14     2749.40240  (18120320)                556927.54
3776959.53     1640.85467  (20031324)
        556947.54   3776959.53     1568.41549  (19113024)                556967.54
3776959.53     1481.51894  (21091306)
        556987.54   3776959.53     1447.34217  (21012124)                557007.54
3776959.53     1279.30825  (21012124)
        557027.54   3776959.53     1055.72438  (21012206)                557047.54
3776959.53      847.38077  (21012206)
        557067.54   3776959.53      680.43371  (21012206)                557087.54
3776959.53      548.05665  (21012206)
        556927.54   3776979.53     1754.74480  (20031324)                556947.54
3776979.53     1648.91254  (19113024)
        556967.54   3776979.53     1621.75746  (21012124)                556987.54
3776979.53     1480.10651  (21012124)
        557007.54   3776979.53     1224.32881  (21012206)                557027.54
3776979.53      970.34828  (21012206)
        557047.54   3776979.53      769.25057  (21012206)                557067.54
3776979.53      620.10242  (21012206)
        557087.54   3776979.53      498.85994  (21012206)                556927.54
3776999.53     1898.62675  (19102619)
        556947.54   3776999.53     1791.28370  (21091306)                556967.54
3776999.53     1715.08579  (21012124)
        556987.54   3776999.53     1442.00993  (21012206)                557007.54
3776999.53     1127.91388  (21012206)
        557027.54   3776999.53      874.48663  (21012206)                557047.54
3776999.53      698.94381  (21012206)
        557067.54   3776999.53      569.53222  (21012206)                557087.54
3776999.53      452.98559  (21012206)
        556927.54   3777019.53     2034.52290  (19113024)                556947.54
3777019.53     1980.62874  (21012124)
        556967.54   3777019.53     1723.79411  (21012124)                556987.54
3777019.53     1337.76691  (21012206)
        557007.54   3777019.53     1006.73984  (21012206)                557027.54
3777019.53      786.58516  (21012206)
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        557047.54   3777019.53      643.99667  (21012206)                557067.54
3777019.53      526.36615  (21012206)
        557087.54   3777019.53      427.29363  (19020905)                556927.54
3777039.53     2248.18846  (21091306)
        556947.54   3777039.53     2086.93809  (21012124)                556967.54
3777039.53     1627.18036  (21012206)
        556987.54   3777039.53     1182.77543  (21012206)                557007.54
3777039.53      889.75565  (21012206)
        557027.54   3777039.53      721.85666  (21012206)                557047.54
3777039.53      623.93381  (21012206)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 117
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        557067.54   3777039.53      500.15886  (19020905)                557087.54
3777039.53      497.87374  (19020905)
        557047.54   3777059.53      594.48985  (19020905)                557067.54
3777059.53      581.47219  (19020905)
        557087.54   3777059.53      560.38535  (19020905)                556919.02
3777174.93     2559.97360  (21122318)
        556939.02   3777174.93     2018.11646  (19120102)                556919.02
3777194.93     3803.99100  (19120324)
        556939.02   3777194.93     3036.81958  (19120324)                556919.02
3777214.93     3959.05382  (20121124)
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        556939.02   3777214.93     3193.69756  (20121124)                556919.02
3777234.93     3666.70059  (21122222)
        556939.02   3777234.93     3030.62525  (19011701)                556919.02
3777254.93     3050.99560  (18110803)
        556939.02   3777254.93     2723.01004  (19011119)                557023.57
3777171.57     1195.06933  (19120324)
        557043.57   3777171.57     1094.60768  (19120324)                557063.57
3777171.57     1003.85678  (19120324)
        557083.57   3777171.57      926.45402  (19120324)                557023.57
3777191.57     1536.46316  (19120324)
        557043.57   3777191.57     1365.82893  (19120324)                557063.57
3777191.57     1224.44619  (19120324)
        557083.57   3777191.57     1113.29150  (19120324)                557023.57
3777211.57     1618.67106  (19120522)
        557043.57   3777211.57     1437.44946  (19120522)                557063.57
3777211.57     1295.53953  (19120324)
        557083.57   3777211.57     1166.17810  (19120324)                557023.57
3777231.57     1616.05270  (20121124)
        557043.57   3777231.57     1444.10770  (20121124)                557063.57
3777231.57     1300.33518  (18022205)
        557083.57   3777231.57     1155.75857  (18022205)                557023.57
3777251.57     1575.25569  (20013120)
        557043.57   3777251.57     1438.31713  (21123002)                557063.57
3777251.57     1314.35298  (21123002)
        557083.57   3777251.57     1155.66411  (20121124)                556249.05
3776972.85     1030.85913  (19113019)
        556269.05   3776972.85     1104.04824  (19020201)                556229.05
3776992.85      919.62239  (23092902)
        556249.05   3776992.85      969.21954  (19113019)                556269.05
3776992.85     1055.15927  (19113019)
        556289.05   3776992.85     1124.31416  (19113019)                556309.05
3776992.85     1196.50135  (19020201)
        556329.05   3776992.85     1253.19393  (19020201)                556209.05
3777012.85      923.96689  (19122921)
        556229.05   3777012.85     1026.33857  (19122921)                556249.05
3777012.85     1045.70794  (19122921)
        556269.05   3777012.85     1049.55494  (19122921)                556289.05
3777012.85     1039.55005  (19122921)
        556309.05   3777012.85     1140.78676  (19113019)                556329.05
3777012.85     1216.49605  (19113019)
        556209.05   3777032.85      941.08197  (19122921)                556229.05
3777032.85     1013.26933  (19122921)
        556249.05   3777032.85     1098.23373  (19122921)                556269.05
3777032.85     1135.84530  (19122921)
        556289.05   3777032.85     1161.71686  (19122921)                556309.05
3777032.85     1177.68537  (19122921)
        556209.05   3777052.85      943.97622  (21101420)                556229.05
3777052.85     1007.14602  (21101420)
        556249.05   3777052.85     1012.05361  (19122921)                556269.05
3777052.85     1092.90255  (19122921)
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        556289.05   3777052.85     1150.22838  (19122921)               556309.05
3777052.85     1200.39378  (19122921)
        556249.05   3777072.85     1031.51824  (21101420)               556269.05
3777072.85     1077.92285  (21101420)
        556289.05   3777072.85     1119.81311  (21101420)               556269.05
3777092.85     1067.39210  (18123019)
        556441.69   3776927.49     1142.09039  (20073101)               556461.69
3776927.49     1190.18332  (20073101)
        556481.69   3776927.49     1168.34252  (20073101)               556421.69
3776947.49     1221.09944  (20072505)
        556441.69   3776947.49     1237.91443  (20072505)               556461.69
3776947.49     1241.60250  (20072505)
        556481.69   3776947.49     1252.17101  (20073101)               556401.69
3776967.49     1310.34259  (21120418)
        556421.69   3776967.49     1335.03358  (21120418)               556441.69
3776967.49     1313.10692  (21120418)
        556461.69   3776967.49     1307.61574  (20072505)               556481.69
3776967.49     1338.92427  (20072505)
        556401.69   3776987.49     1333.31715  (19120424)               556421.69
3776987.49     1360.28507  (21120418)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 118
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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        556441.69   3776987.49     1410.14333  (21120418)              556461.69
3776987.49     1427.66891  (21120418)
        556481.69   3776987.49     1421.12430  (21120418)              556421.69
3777007.49     1390.89304  (19120424)
        556441.69   3777007.49     1432.29464  (19120424)              556461.69
3777007.49     1468.78975  (21120418)
        556481.69   3777007.49     1534.25793  (21120418)              556441.69
3777027.49     1459.40270  (19020201)
        556461.69   3777027.49     1499.85618  (19120424)              556481.69
3777027.49     1565.05727  (19120424)
        556251.24   3777154.95     1059.12713  (19081106)              556261.28
3777141.20     1073.17707  (23111620)
        556264.98   3777168.16     1094.92990  (19011408)              556279.25
3777151.77     1128.92587  (19081106)
        556202.60   3777113.45      932.02994  (19112020)              556220.05
3777109.75      954.80747  (19112020)
        556187.53   3777090.19      885.93238  (20041705)              556164.27
3777121.38      878.32894  (23111620)
        557510.26   3776508.23      244.57722  (23100204)              557530.26
3776508.23      241.72535  (19062905)
        557550.26   3776508.23      241.94168  (19062905)              557570.26
3776508.23      239.03499  (19062905)
        557590.26   3776508.23      233.71685  (19062905)              557610.26
3776508.23      226.33190  (19062905)
        557630.26   3776508.23      216.20327  (19062905)              557650.26
3776508.23      204.38035  (19062905)
        557670.26   3776508.23      190.56442  (19062905)              557690.26
3776508.23      193.96805  (21011318)
        557510.26   3776528.23      247.18382  (19062905)              557530.26
3776528.23      247.25094  (19062905)
        557550.26   3776528.23      244.34896  (19062905)              557570.26
3776528.23      237.91114  (19062905)
        557590.26   3776528.23      229.84384  (19062905)              557610.26
3776528.23      219.56107  (19062905)
        557630.26   3776528.23      207.45863  (19062905)              557650.26
3776528.23      195.89428  (21011318)
        557670.26   3776528.23      199.90605  (21011318)              557690.26
3776528.23      202.48680  (21011318)
        557510.26   3776548.23      251.85228  (19062905)              557530.26
3776548.23      249.32890  (19062905)
        557550.26   3776548.23      241.88007  (19062905)              557570.26
3776548.23      232.51590  (19062905)
        557590.26   3776548.23      222.20063  (19062905)              557610.26
3776548.23      209.62107  (19062905)
        557630.26   3776548.23      200.15327  (21011318)              557650.26
3776548.23      205.02673  (21011318)
        557670.26   3776548.23      207.09713  (21011318)              557690.26
3776548.23      207.75542  (21011318)
        557510.26   3776568.23      252.71764  (19062905)              557530.26
3776568.23      246.67638  (19062905)
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        557550.26   3776568.23      236.78157  (19062905)                557570.26
3776568.23      224.48887  (19062905)
        557590.26   3776568.23      211.70037  (19062905)                557610.26
3776568.23      203.98291  (21011318)
        557630.26   3776568.23      207.92766  (21011318)                557650.26
3776568.23      210.84208  (21011318)
        557670.26   3776568.23      210.59222  (21011318)                557690.26
3776568.23      208.51312  (21011318)
        557510.26   3776588.23      249.51783  (19062905)                557530.26
3776588.23      240.88139  (19062905)
        557550.26   3776588.23      228.45847  (19062905)                557570.26
3776588.23      213.70002  (19062905)
        557590.26   3776588.23      207.10252  (21011318)                557610.26
3776588.23      210.12481  (21011318)
        557630.26   3776588.23      212.59660  (21011318)                557650.26
3776588.23      212.91379  (21011318)
        557670.26   3776588.23      210.94669  (21011318)                557690.26
3776588.23      207.22584  (21011318)
        557510.26   3776608.23      242.59235  (19062905)                557530.26
3776608.23      231.49351  (19062905)
        557550.26   3776608.23      216.84257  (19062905)                557570.26
3776608.23      211.60381  (21011318)
        557590.26   3776608.23      212.52113  (21011318)                557610.26
3776608.23      213.12174  (21011318)
        557630.26   3776608.23      213.30062  (21011318)                557650.26
3776608.23      211.12896  (21011318)
        557670.26   3776608.23      206.75225  (21011318)                557690.26
3776608.23      200.73227  (21011318)
        557510.26   3776628.23      232.67483  (19062905)                557530.26
3776628.23      219.07494  (19062905)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE 119
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     L0000083    , L0000084
, L0000085    , L0000086    , L0000087    ,
                  L0000088    , L0000089    , L0000090    , L0000091    , L0000092
, L0000093    , L0000094    , L0000095    ,
                  L0000096    , L0000097    , L0000098    , L0000099    , L0000100
, L0000101    , L0000102    , L0000103    ,
                  L0000104    , L0000105    , L0000106    , L0000025    , L0000026
, L0000107    , L0000108    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557550.26	3776628.23	215.14723	(21011318)	557570.26	3776628.23	218.09515	(21011318)
557590.26	3776628.23	214.67481	(21011318)	557610.26	3776628.23	212.83164	(21011318)
557630.26	3776628.23	210.02594	(21011318)	557650.26	3776628.23	206.36035	(21011318)
557670.26	3776628.23	200.08144	(21011318)	557690.26	3776628.23	192.62414	(21011318)
557510.26	3776648.23	219.78954	(19062905)	557530.26	3776648.23	217.99602	(21011318)
557550.26	3776648.23	217.26798	(21011318)	557570.26	3776648.23	209.64949	(21011318)
557590.26	3776648.23	208.13653	(21011318)	557610.26	3776648.23	203.79745	(21011318)
557630.26	3776648.23	200.12090	(21011318)	557650.26	3776648.23	196.04216	(21011318)
557670.26	3776648.23	188.21592	(21011318)	557690.26	3776648.23	180.40117	(21011318)
557510.26	3776668.23	211.08015	(21011318)	557530.26	3776668.23	209.32801	(21011318)
557550.26	3776668.23	206.10841	(21011318)	557570.26	3776668.23	197.01554	(21011318)
557590.26	3776668.23	197.50550	(21011318)	557610.26	3776668.23	188.34765	(21011318)
557630.26	3776668.23	184.61449	(21011318)	557650.26	3776668.23	180.48950	(21011318)
557670.26	3776668.23	174.28582	(21011318)	557690.26	3776668.23	165.57376	(23102404)
557510.26	3776688.23	196.99788	(21011318)	557530.26	3776688.23	195.61012	(21011318)
557550.26	3776688.23	188.90098	(21011318)	557570.26	3776688.23	185.26996	(21011318)
557590.26	3776688.23	181.17829	(21011318)	557610.26	3776688.23	172.05743	(21011318)
557630.26	3776688.23	168.49827	(21011318)	557650.26	3776688.23	163.60346	(21011318)
557670.26	3776688.23	155.31387	(21011318)	557690.26	3776688.23	154.77558	(19020905)
556172.49	3776517.81	508.38230	(20111119)	556192.49	3776517.81	498.05994	(20111119)

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        556212.49   3776517.81      495.98254  (18123020)                556232.49
3776517.81      484.19303  (18123020)
        556252.49   3776517.81      492.00414  (20111219)                556272.49
3776517.81      495.31517  (20111219)
        556292.49   3776517.81      483.90863  (21010719)                556312.49
3776517.81      485.80099  (21010719)
        556332.49   3776517.81      492.94733  (18102919)                556352.49
3776517.81      461.70684  (20012518)
        556372.49   3776517.81      460.29930  (19020324)                556392.49
3776517.81      493.74562  (19020324)
        556412.49   3776517.81      480.52841  (19020324)                556432.49
3776517.81      459.36105  (23111719)
        556452.49   3776517.81      495.74053  (23071306)                556472.49
3776517.81      509.07029  (23071306)
        556492.49   3776517.81      478.79084  (23071306)                556172.49
3776537.81      517.88367  (20111119)
        556192.49   3776537.81      521.73719  (20111119)                556212.49
3776537.81      504.62839  (20111119)
        556232.49   3776537.81      510.27049  (18123020)                556252.49
3776537.81      495.64078  (18123020)
        556272.49   3776537.81      504.03844  (20111219)                556292.49
3776537.81      509.46413  (20111219)
        556312.49   3776537.81      503.54167  (21010719)                556332.49
3776537.81      511.87028  (18102919)
        556352.49   3776537.81      505.03564  (18102919)                556372.49
3776537.81      465.25545  (20012518)
        556392.49   3776537.81      482.66548  (19020324)                556412.49
3776537.81      504.42050  (19020324)
        556432.49   3776537.81      479.30669  (19020324)                556452.49
3776537.81      489.73181  (23071306)
        556472.49   3776537.81      526.45884  (23071306)                556492.49
3776537.81      520.65012  (23071306)
        556332.49   3776557.81      536.65769  (21010719)                556352.49
3776557.81      526.92579  (18102919)
        556372.49   3776557.81      513.01695  (18102919)                556392.49
3776557.81      484.35195  (19020324)
        556412.49   3776557.81      529.22817  (19020324)                556432.49
3776557.81      524.74272  (19020324)
        556452.49   3776557.81      488.49357  (23111719)                556472.49
3776557.81      529.55037  (23071306)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        11:21:34

                                 PAGE 120
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                  L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                  L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , L0000103   ,
                  L0000104   , L0000105   , L0000106   , L0000025   , L0000026
, L0000107   , L0000108   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556492.49   3776557.81   551.19684 (23071306)   556332.49
3776577.81   548.73659 (20111219)
        556352.49   3776577.81   554.38525 (21010719)   556372.49
3776577.81   553.08846 (18102919)
        556392.49   3776577.81   526.41804 (18102919)   556412.49
3776577.81   536.55736 (19020324)
        556432.49   3776577.81   554.43452 (19020324)   556452.49
3776577.81   534.55723 (19020324)
        556472.49   3776577.81   523.97704 (23071306)   556492.49
3776577.81   568.34383 (23071306)
        556332.49   3776597.81   594.45901 (20111219)   556352.49
3776597.81   570.85774 (20111219)
        556372.49   3776597.81   575.89139 (21010719)   556392.49
3776597.81   564.75990 (18102919)
        556412.49   3776597.81   539.57952 (20012518)   556432.49
3776597.81   564.12683 (19020324)
        556452.49   3776597.81   565.22594 (19020324)   556472.49
3776597.81   533.30763 (19020324)
        556492.49   3776597.81   569.71581 (23071306)   556252.49
3776617.81   605.63077 (20111119)
        556272.49   3776617.81   607.19205 (20111119)   556292.49
3776617.81   593.45902 (23010404)
        556312.49   3776617.81   607.86038 (18123020)   556332.49
3776617.81   597.46582 (20111219)
        556352.49   3776617.81   619.17330 (20111219)   556372.49
3776617.81   603.94533 (21010719)
        556392.49   3776617.81   600.64504 (18102919)   556412.49
3776617.81   600.19706 (18102919)
        556432.49   3776617.81   555.66879 (19020324)   556452.49
3776617.81   603.61044 (19020324)

```
        556472.49   3776617.81      583.14826  (19020324)              556492.49
3776617.81      574.54804  (23111719)
        556252.49   3776637.81      602.72162  (23092301)              556272.49
3776637.81      633.65213  (20111119)
        556292.49   3776637.81      633.67012  (20111119)              556312.49
3776637.81      616.56017  (23010404)
        556332.49   3776637.81      635.28225  (18123020)              556352.49
3776637.81      637.63401  (20111219)
        556372.49   3776637.81      651.03088  (20111219)              556392.49
3776637.81      627.35105  (21010719)
        556412.49   3776637.81      630.41319  (18102919)              556432.49
3776637.81      608.83621  (18102919)
        556452.49   3776637.81      595.91594  (19020324)              556472.49
3776637.81      629.32866  (19020324)
        556492.49   3776637.81      614.34095  (19020324)              556252.49
3776657.81      623.06692  (19011501)
        556272.49   3776657.81      634.05663  (23092301)              556292.49
3776657.81      665.09042  (20111119)
        556312.49   3776657.81      651.45212  (20111119)              556332.49
3776657.81      654.91932  (18123020)
        556352.49   3776657.81      667.90738  (18123020)              556372.49
3776657.81      681.02959  (20111219)
        556392.49   3776657.81      663.56138  (20111219)              556412.49
3776657.81      652.07720  (21010719)
        556432.49   3776657.81      649.67972  (18102919)              556452.49
3776657.81      613.82445  (18102919)
        556472.49   3776657.81      636.66859  (19020324)              556492.49
3776657.81      662.84116  (19020324)
        556252.49   3776677.81      679.95684  (19011501)              556272.49
3776677.81      646.36582  (19011501)
        556292.49   3776677.81      649.27560  (23092301)              556312.49
3776677.81      681.59112  (20111119)
        556332.49   3776677.81      693.70796  (20111119)              556352.49
3776677.81      693.50976  (18123020)
        556372.49   3776677.81      697.90863  (18123020)              556392.49
3776677.81      699.39442  (20111219)
        556412.49   3776677.81      694.41037  (20111219)              556432.49
3776677.81      676.28813  (21010719)
        556452.49   3776677.81      669.13773  (18102919)              556472.49
3776677.81      627.36939  (20012518)
        556492.49   3776677.81      687.46102  (19020324)              556252.49
3776697.81      702.01783  (19011501)
        556272.49   3776697.81      702.53104  (19011501)              556372.49
3776697.81      725.79909  (18123020)
        556392.49   3776697.81      708.09144  (18123020)              556412.49
3776697.81      728.82781  (20111219)
        556432.49   3776697.81      702.31048  (20111219)              556452.49
3776697.81      693.72364  (21010719)
        556472.49   3776697.81      691.36650  (18102919)              556492.49
3776697.81      680.99496  (19020324)
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0000083   , L0000084
, L0000085   , L0000086   , L0000087   ,
                  L0000088   , L0000089   , L0000090   , L0000091   , L0000092
, L0000093   , L0000094   , L0000095   ,
                  L0000096   , L0000097   , L0000098   , L0000099   , L0000100
, L0000101   , L0000102   , L0000103   ,
                  L0000104   , L0000105   , L0000106   , L0000025   , L0000026
, L0000107   , L0000108   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556252.49   3776717.81   675.88204 (18031106)   556272.49
3776717.81   717.01525 (19011501)
        556372.49   3776717.81   761.48940 (20111119)   556392.49
3776717.81   736.58987 (18123020)
        556412.49   3776717.81   740.97823 (18123020)   556432.49
3776717.81   753.04670 (20111219)
        556452.49   3776717.81   717.13783 (21010719)   556472.49
3776717.81   746.24365 (18102919)
        556492.49   3776717.81   718.98674 (18102919)   556267.40
3776875.81   1021.75522 (21120418)
        556239.03   3776853.02   956.09553 (21120418)   556178.76
3776751.21   748.11146 (20072505)
        556154.45   3776774.51   786.25859 (20072505)   556119.50
3776705.11   679.37086 (20073101)
        556146.51   3777267.93   762.30070 (20020620)   556151.00
3777234.88   780.88426 (21100603)
        556144.93   3777179.58   828.74251 (21120218)   556205.18
3777236.46   863.96752 (19042703)
        556218.00   3777200.04   913.32618 (23071605)   556772.00
3777345.97   2231.48071 (20032007)

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD (43824
HRS) RESULTS ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
              **

                      NETWORK
GROUP ID   AVERAGE CONC   RECEPTOR (XR, YR, ZELEV,
ZHILL, ZFLAG) OF TYPE GRID-ID
- -
- - - - - - - - - - - - - - - - - - -

ONSITE   1ST HIGHEST VALUE IS   83.04048 AT (556919.02, 3777194.93,   975.13,
  975.13,   0.00) DC
          2ND HIGHEST VALUE IS   82.33241 AT (556919.02, 3777174.93,   975.11,
  975.11,   0.00) DC
          3RD HIGHEST VALUE IS   80.18568 AT (556919.02, 3777214.93,   974.11,
  974.83,   0.00) DC
          4TH HIGHEST VALUE IS   75.54813 AT (556919.02, 3777234.93,   974.22,
  974.22,   0.00) DC
          5TH HIGHEST VALUE IS   62.49577 AT (556919.02, 3777254.93,   973.97,
  974.65,   0.00) DC
          6TH HIGHEST VALUE IS   55.22847 AT (556939.02, 3777194.93,   975.02,
  975.02,   0.00) DC
          7TH HIGHEST VALUE IS   54.40049 AT (556939.02, 3777174.93,   975.07,
  975.07,   0.00) DC
          8TH HIGHEST VALUE IS   54.05905 AT (556939.02, 3777214.93,   974.76,
  974.76,   0.00) DC
          9TH HIGHEST VALUE IS   50.85054 AT (556939.02, 3777234.93,   974.60,
  974.60,   0.00) DC
         10TH HIGHEST VALUE IS   44.13833 AT (556939.02, 3777254.93,   974.28,
  974.28,   0.00) DC

OFFSITE   1ST HIGHEST VALUE IS   200.67294 AT (556919.02, 3777254.93,   973.97,
  974.65,   0.00) DC
          2ND HIGHEST VALUE IS   164.88589 AT (556939.02, 3777254.93,   974.28,
  974.28,   0.00) DC
          3RD HIGHEST VALUE IS   123.08605 AT (556919.02, 3777234.93,   974.22,
  974.22,   0.00) DC

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          4TH HIGHEST VALUE IS     108.57874 AT (  556939.02,  3777234.93,   974.60,
  974.60,    0.00)  DC
          5TH HIGHEST VALUE IS      85.02547 AT (  556919.02,  3777214.93,   974.11,
  974.83,    0.00)  DC
          6TH HIGHEST VALUE IS      78.32918 AT (  556939.02,  3777214.93,   974.76,
  974.76,    0.00)  DC
          7TH HIGHEST VALUE IS      74.92629 AT (  556905.58,  3777351.19,   972.50,
  972.50,    0.00)  DC
          8TH HIGHEST VALUE IS      70.77123 AT (  556920.93,  3777350.82,   971.99,
  971.99,    0.00)  DC
          9TH HIGHEST VALUE IS      60.47526 AT (  556919.02,  3777194.93,   975.13,
  975.13,    0.00)  DC
         10TH HIGHEST VALUE IS      59.86958 AT (  556939.02,  3777194.93,   975.02,
  975.02,    0.00)  DC

IDLE      1ST HIGHEST VALUE IS     118.62959 AT (  556919.02,  3777194.93,   975.13,
  975.13,    0.00)  DC
          2ND HIGHEST VALUE IS     116.37450 AT (  556919.02,  3777214.93,   974.11,
  974.83,    0.00)  DC
          3RD HIGHEST VALUE IS     100.37006 AT (  556919.02,  3777174.93,   975.11,
  975.11,    0.00)  DC
          4TH HIGHEST VALUE IS      94.45142 AT (  556919.02,  3777234.93,   974.22,
  974.22,    0.00)  DC
          5TH HIGHEST VALUE IS      78.63230 AT (  556939.02,  3777214.93,   974.76,
  974.76,    0.00)  DC
          6TH HIGHEST VALUE IS      76.90049 AT (  556939.02,  3777194.93,   975.02,
  975.02,    0.00)  DC
          7TH HIGHEST VALUE IS      69.46713 AT (  556939.02,  3777234.93,   974.60,
  974.60,    0.00)  DC
          8TH HIGHEST VALUE IS      68.42927 AT (  556939.02,  3777174.93,   975.07,
  975.07,    0.00)  DC
          9TH HIGHEST VALUE IS      66.84968 AT (  556919.02,  3777254.93,   973.97,
  974.65,    0.00)  DC
         10TH HIGHEST VALUE IS      53.88970 AT (  556939.02,  3777254.93,   974.28,
  974.28,    0.00)  DC

ALL       1ST HIGHEST VALUE IS     330.01838 AT (  556919.02,  3777254.93,   973.97,
  974.65,    0.00)  DC
          2ND HIGHEST VALUE IS     293.08560 AT (  556919.02,  3777234.93,   974.22,
  974.22,    0.00)  DC
          3RD HIGHEST VALUE IS     281.58566 AT (  556919.02,  3777214.93,   974.11,
  974.83,    0.00)  DC
          4TH HIGHEST VALUE IS     262.91392 AT (  556939.02,  3777254.93,   974.28,
  974.28,    0.00)  DC
          5TH HIGHEST VALUE IS     262.14532 AT (  556919.02,  3777194.93,   975.13,
  975.13,    0.00)  DC
          6TH HIGHEST VALUE IS     228.89641 AT (  556939.02,  3777234.93,   974.60,
  974.60,    0.00)  DC
          7TH HIGHEST VALUE IS     227.30594 AT (  556919.02,  3777174.93,   975.11,
  975.11,    0.00)  DC
```

```
         8TH HIGHEST VALUE IS     211.02053 AT (  556939.02,  3777214.93,   974.76,
  974.76,    0.00)  DC
         9TH HIGHEST VALUE IS     191.99853 AT (  556939.02,  3777194.93,   975.02,
  975.02,    0.00)  DC
        10TH HIGHEST VALUE IS     169.95545 AT (  556939.02,  3777174.93,   975.07,
  975.07,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        11:21:34

                                  PAGE 123
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **

                                                      DATE
                                          NETWORK
GROUP ID                             AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

ONSITE   HIGH   1ST HIGH VALUE IS    1424.51061  ON 19122921: AT (  556615.91,
3777136.99,   979.24,   979.24,    0.00)  DC

OFFSITE  HIGH   1ST HIGH VALUE IS    1807.07122  ON 21011819: AT (  556919.02,
3777254.93,   973.97,   974.65,    0.00)  DC

IDLE     HIGH   1ST HIGH VALUE IS    2657.06872  ON 23122818: AT (  556919.02,
3777214.93,   974.11,   974.83,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS    3959.05382  ON 20121124: AT (  556919.02,
3777214.93,   974.11,   974.83,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
```

```
                     DC = DISCCART
                     DP = DISCPOLR
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                     ***        11:21:34

                                PAGE 124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            4 Warning Message(s)
 A Total of         2103 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          918 Calm Hours Identified

 A Total of         1185 Missing Hours Identified (  2.70 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***

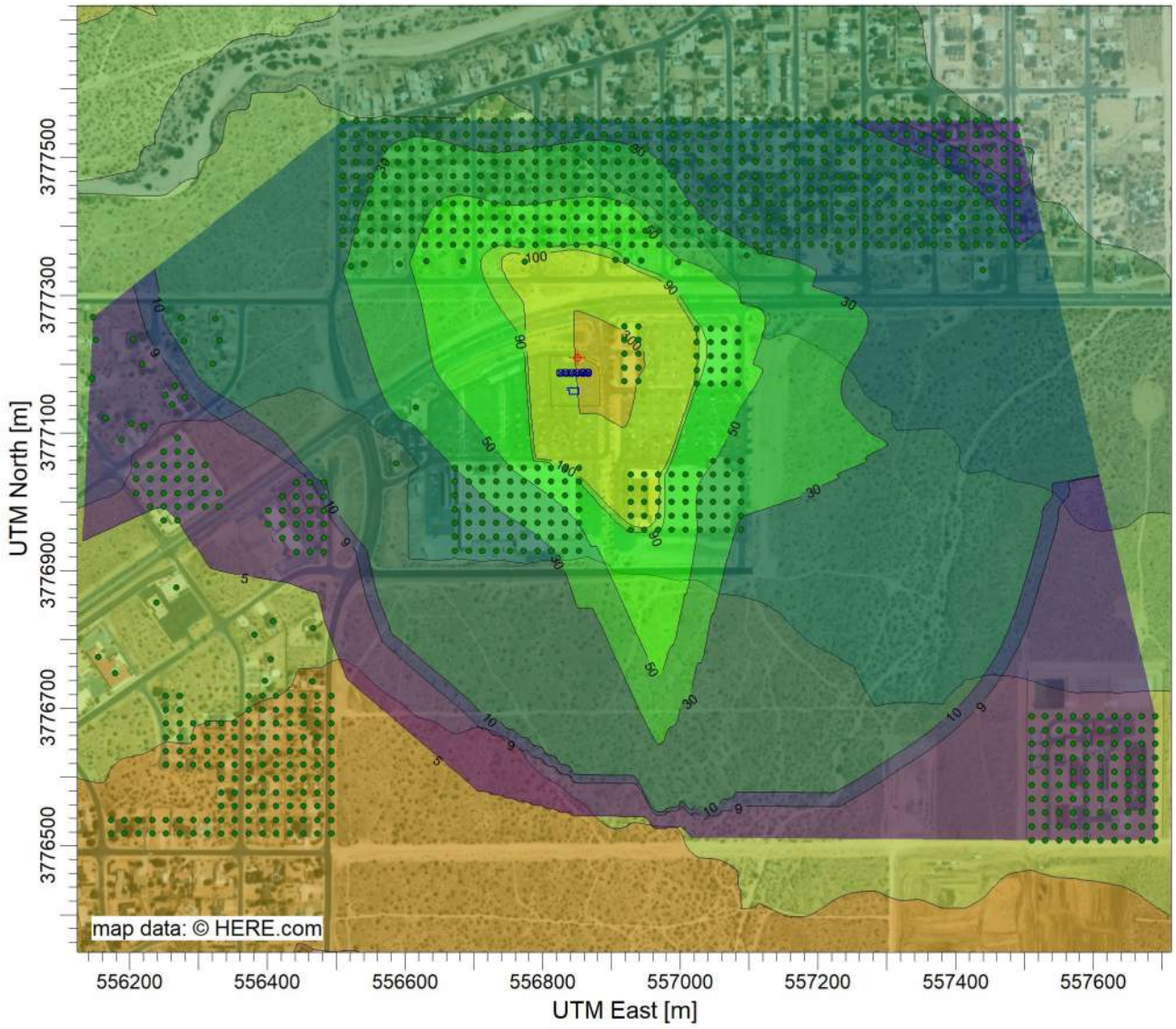

    ********   WARNING MESSAGES   ********
 ME W186     270       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     270       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   35065       CHKDAT: Record Out of Sequence in Meteorological File at:
 23010101
 MX W450   35065       CHKDAT: Record Out of Sequence in Meteorological File at:
1 year gap

    ***********************************
    *** AERMOD Finishes Successfully ***
    ***********************************
```

PROJECT TITLE:

Yucca Valley Walmart Fuel Station
Fueling Station - Unitized Emissions



PLOT FILE OF PERIOD VALUES AVERAGED ACROSS 0 YEARS FOR SOURCE GROUP: ALL ug/m^3

Max: 504 [ug/m^3] at (556919.02, 3777194.93)

5 9 10 30 50 90 100 300 500 504

COMMENTS:	SOURCES: **14**		
	RECEPTORS: **980**		
	OUTPUT TYPE: **Concentration**	SCALE: 1:10,000 0 0.3 km	
	MAX: **504 ug/m^3**		PROJECT NO.:

AERMOD View - Lakes Environmental Software

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 13.0.0
** Lakes Environmental Software Inc.
** Date: 8/25/2025
** File:
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Revised\Yucca_Walmart_Fuel_Revised.AD
I
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   POLLUTID TOG
   RUNORNOT RUN
   ERRORFIL Yucca_Walmart_Fuel_Revised.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
   LOCATION VOL1         VOLUME     556825.395  3777187.183      976.800
** DESCRSRC Station1 Fuel/Hose
   LOCATION VOL2         VOLUME     556825.445  3777187.053      976.810
** DESCRSRC Station1 Spill
   LOCATION VOL3         VOLUME     556833.586  3777187.045      976.810
** DESCRSRC Station2 Fuel/hose
   LOCATION VOL4         VOLUME     556833.681  3777187.045      976.810
** DESCRSRC Station2 Spill
   LOCATION VOL5         VOLUME     556841.766  3777186.998      976.800
** DESCRSRC Station3 Fuel/hose
   LOCATION VOL6         VOLUME     556841.955  3777187.045      976.800
** DESCRSRC Station3 Spill
   LOCATION VOL7         VOLUME     556850.136  3777187.234      976.760
```

```
** DESCRSRC Station4 Fuel/hose
   LOCATION VOL8         VOLUME     556850.088  3777187.376      976.750
** DESCRSRC Station4 Spill
   LOCATION VOL9         VOLUME     556858.221  3777187.471      976.720
** DESCRSRC Station5 Spill
   LOCATION VOL10        VOLUME     556858.174  3777187.092      976.730
** DESCRSRC Station5 Fuel/hose
   LOCATION VOL11        VOLUME     556866.354  3777187.329      976.720
** DESCRSRC Station6 Fuel/hose
   LOCATION VOL12        VOLUME     556866.496  3777187.423      976.720
** DESCRSRC Station6 Spill
   LOCATION STCK1        POINT      556849.730  3777209.170      975.250
** DESCRSRC Loading
   LOCATION STCK2        POINT      556849.870  3777209.210      975.240
** DESCRSRC Breathing
** Source Parameters **
   SRCPARAM VOL1         0.1666666667     1.500     1.860     4.000
   SRCPARAM VOL2         0.1666666667     1.000     1.860     4.000
   SRCPARAM VOL3         0.1666666667     1.500     1.860     4.000
   SRCPARAM VOL4         0.1666666667     1.000     1.860     4.000
   SRCPARAM VOL5         0.1666666667     1.500     1.860     4.000
   SRCPARAM VOL6         0.1666666667     1.000     1.860     4.000
   SRCPARAM VOL7         0.1666666667     1.500     1.860     4.000
   SRCPARAM VOL8         0.1666666667     1.000     1.860     4.000
   SRCPARAM VOL9         0.1666666667     1.000     1.860     4.000
   SRCPARAM VOL10        0.1666666667     1.500     1.860     4.000
   SRCPARAM VOL11        0.1666666667     1.500     1.860     4.000
   SRCPARAM VOL12        0.1666666667     1.000     1.860     4.000
   SRCPARAM STCK1              1.0     3.660   291.000     0.001    0.0508
   SRCPARAM STCK2              1.0     3.660   289.000     0.001    0.0508

** Building Downwash **
   BUILDHGT STCK1           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK1           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK1           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK1           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK1           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK1           0.00     0.00     0.00     0.00     0.00     0.00

   BUILDHGT STCK2           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK2           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK2           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK2           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK2           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDHGT STCK2           0.00     0.00     0.00     0.00     0.00     0.00

   BUILDWID STCK1           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDWID STCK1           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDWID STCK1           0.00     0.00     0.00     0.00     0.00     0.00
   BUILDWID STCK1           0.00     0.00     0.00     0.00     0.00     0.00
```

BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDWID	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
BUILDLEN	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
XBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK1	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00
YBADJ	STCK2	0.00	0.00	0.00	0.00	0.00	0.00

```
   YBADJ    STCK2            0.00     0.00     0.00     0.00     0.00     0.00

   SRCGROUP loading_ STCK1
   SRCGROUP Fueling  VOL1 VOL3 VOL5 VOL7 VOL10 VOL11
   SRCGROUP Spill    VOL2 VOL4 VOL6 VOL8 VOL9 VOL12
   SRCGROUP Breathin STCK2
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED Yucca_Walmart_Fuel_Revised.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE ..\kpsp_sfc_pfl\KPSP_V11_trimmed.sfc
   PROFFILE ..\kpsp_sfc_pfl\KPSP_V11_trimmed.pfl
   SURFDATA 93138 2018 33.63 -116.16
   UAIRDATA 3190 2018
   PROFBASE 125.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST YUCCA_WALMART_FUEL_REVISED.AD\01H1GALL.PLT 31
   PLOTFILE 1 loading_ 1ST YUCCA_WALMART_FUEL_REVISED.AD\01H1G001.PLT 32
   PLOTFILE 1 Fueling 1ST YUCCA_WALMART_FUEL_REVISED.AD\01H1G002.PLT 33
   PLOTFILE 1 Spill 1ST YUCCA_WALMART_FUEL_REVISED.AD\01H1G003.PLT 34
   PLOTFILE 1 Breathin 1ST YUCCA_WALMART_FUEL_REVISED.AD\01H1G004.PLT 35
   PLOTFILE PERIOD ALL YUCCA_WALMART_FUEL_REVISED.AD\PE00GALL.PLT 36
   PLOTFILE PERIOD loading_ YUCCA_WALMART_FUEL_REVISED.AD\PE00G001.PLT 37
   PLOTFILE PERIOD Fueling YUCCA_WALMART_FUEL_REVISED.AD\PE00G002.PLT 38
   PLOTFILE PERIOD Spill YUCCA_WALMART_FUEL_REVISED.AD\PE00G003.PLT 39
   PLOTFILE PERIOD Breathin YUCCA_WALMART_FUEL_REVISED.AD\PE00G004.PLT 40
```

```
   SUMMFILE Yucca_Walmart_Fuel_Revised.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     177       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     177       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       13:24:37

                                 PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - -

 ** Model Options Selected:
      * Model Uses Regulatory DEFAULT Options
      * Model Is Setup For Calculation of Average CONCentration Values.
      * NO GAS DEPOSITION Data Provided.
      * NO PARTICLE DEPOSITION Data Provided.
      * Model Uses NO DRY DEPLETION. DDPLETE  =  F
      * Model Uses NO WET DEPLETION. WETDPLT  =  F
      * Stack-tip Downwash.
      * Model Accounts for ELEVated Terrain Effects.
```

```
      * Use Calms Processing Routine.
      * Use Missing Data Processing Routine.
      * No Exponential Decay.
      * Model Uses RURAL Dispersion Only.
      * ADJ_U*   - Use ADJ_U* option for SBL in AERMET
      * CCVR_Sub - Meteorological data includes CCVR substitutions
      * TEMP_Sub - Meteorological data includes TEMP substitutions
      * Model Assumes No FLAGPOLE Receptor Heights.
      * The User Specified a Pollutant Type of: TOG

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:     14 Source(s);       5 Source Group(s); and     980
Receptor(s)

                with:      2 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     12 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)
                 and:      0 SWPOINT source(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  22112

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   125.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3
```

```
 **Approximate Storage Requirements of Model =      3.8 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   Yucca_Walmart_Fuel_Revised.err

 **File for Summary of Results:   Yucca_Walmart_Fuel_Revised.sum

 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                 *** POINT SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE     STACK   STACK
STACK     STACK    BLDG   URBAN  CAP/  EMIS RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.    HEIGHT  TEMP.   EXIT
VEL. DIAMETER  EXISTS SOURCE HOR   SCALAR
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (DEG.K)
(M/SEC)  (METERS)                    VARY BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

 STCK1            0   0.10000E+01  556849.7 3777209.2   975.2     3.66   291.00
0.00     0.05    NO      NO    NO
 STCK2            0   0.10000E+01  556849.9 3777209.2   975.2     3.66   289.00
0.00     0.05    NO      NO    NO
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                                 *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
```

```
INIT.   URBAN  EMISSION RATE   AIRCRAFT
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 VOL1            0   0.16667E+00  556825.4 3777187.2   976.8     1.50     1.86
4.00     NO                     NO
 VOL2            0   0.16667E+00  556825.4 3777187.1   976.8     1.00     1.86
4.00     NO                     NO
 VOL3            0   0.16667E+00  556833.6 3777187.0   976.8     1.50     1.86
4.00     NO                     NO
 VOL4            0   0.16667E+00  556833.7 3777187.0   976.8     1.00     1.86
4.00     NO                     NO
 VOL5            0   0.16667E+00  556841.8 3777187.0   976.8     1.50     1.86
4.00     NO                     NO
 VOL6            0   0.16667E+00  556842.0 3777187.0   976.8     1.00     1.86
4.00     NO                     NO
 VOL7            0   0.16667E+00  556850.1 3777187.2   976.8     1.50     1.86
4.00     NO                     NO
 VOL8            0   0.16667E+00  556850.1 3777187.4   976.8     1.00     1.86
4.00     NO                     NO
 VOL9            0   0.16667E+00  556858.2 3777187.5   976.7     1.00     1.86
4.00     NO                     NO
 VOL10           0   0.16667E+00  556858.2 3777187.1   976.7     1.50     1.86
4.00     NO                     NO
 VOL11           0   0.16667E+00  556866.4 3777187.3   976.7     1.50     1.86
4.00     NO                     NO
 VOL12           0   0.16667E+00  556866.5 3777187.4   976.7     1.00     1.86
4.00     NO                     NO
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
 -----------                                          ----------


  LOADING_   STCK1       ,
```

```
  FUELING    VOL1        , VOL3        , VOL5        , VOL7        , VOL10       ,
VOL11       ,

  SPILL      VOL2        , VOL4        , VOL6        , VOL8        , VOL9        ,
VOL12       ,

  BREATHIN   STCK2       ,

  ALL        VOL1        , VOL2        , VOL3        , VOL4        , VOL5        ,
VOL6        , VOL7        , VOL8        ,

             VOL9        , VOL10       , VOL11       , VOL12       , STCK1       ,
STCK2       ,
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE   5
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     ( 556521.7, 3777341.6,     974.8,     974.8,       0.0);         ( 556539.9,
3777344.9,     974.6,     974.6,       0.0);
     ( 556591.8, 3777345.4,     974.7,     974.7,       0.0);         ( 556630.6,
3777349.7,     974.5,     974.5,       0.0);
     ( 556684.3, 3777349.4,     974.0,     974.0,       0.0);         ( 556905.6,
3777351.2,     972.5,     972.5,       0.0);
     ( 556920.9, 3777350.8,     972.0,     972.0,       0.0);         ( 556942.9,
3777350.1,     971.7,     971.7,       0.0);
     ( 556996.3, 3777348.3,     971.4,     971.4,       0.0);         ( 557096.8,
3777357.8,     968.8,     968.8,       0.0);
     ( 557115.8, 3777363.6,     968.3,     968.3,       0.0);         ( 557129.4,
3777361.4,     967.9,     967.9,       0.0);
     ( 557230.7, 3777364.0,     966.6,     966.6,       0.0);         ( 556466.2,
3776816.1,     988.3,     988.3,       0.0);
     ( 556407.9, 3776826.2,     987.6,     987.6,       0.0);         ( 556381.1,
3776807.1,     987.6,     987.6,       0.0);
     ( 556404.3, 3776771.5,     988.7,     988.7,       0.0);         ( 556465.2,
3776739.5,     990.3,     990.3,       0.0);
     ( 556396.1, 3776739.9,     989.3,     989.3,       0.0);         ( 556324.0,
3777265.4,     977.0,     977.0,       0.0);
     ( 556330.6, 3777234.0,     977.5,     977.5,       0.0);         ( 556321.1,
3777200.4,     978.2,     978.2,       0.0);
     ( 556275.1, 3777267.8,     976.2,     976.2,       0.0);         ( 556278.3,
3777233.5,     977.0,     977.0,       0.0);
```

```
     ( 556509.4, 3777373.4,     974.1,     974.1,       0.0);         ( 556529.4,
3777373.4,     973.9,     973.9,       0.0);
     ( 556549.4, 3777373.4,     973.9,     973.9,       0.0);         ( 556569.4,
3777373.4,     973.7,     973.7,       0.0);
     ( 556589.4, 3777373.4,     973.8,     973.8,       0.0);         ( 556609.4,
3777373.4,     973.7,     973.7,       0.0);
     ( 556629.4, 3777373.4,     973.7,     973.7,       0.0);         ( 556649.4,
3777373.4,     973.5,     973.5,       0.0);
     ( 556669.4, 3777373.4,     973.5,     973.5,       0.0);         ( 556689.4,
3777373.4,     973.7,     973.7,       0.0);
     ( 556709.4, 3777373.4,     973.8,     973.8,       0.0);         ( 556729.4,
3777373.4,     973.8,     973.8,       0.0);
     ( 556749.4, 3777373.4,     973.9,     973.9,       0.0);         ( 556769.4,
3777373.4,     973.6,     973.6,       0.0);
     ( 556789.4, 3777373.4,     973.3,     973.3,       0.0);         ( 556809.4,
3777373.4,     973.3,     973.3,       0.0);
     ( 556829.4, 3777373.4,     973.1,     973.1,       0.0);         ( 556849.4,
3777373.4,     972.8,     972.8,       0.0);
     ( 556869.4, 3777373.4,     972.6,     972.6,       0.0);         ( 556889.4,
3777373.4,     972.2,     972.2,       0.0);
     ( 556909.4, 3777373.4,     971.8,     971.8,       0.0);         ( 556929.4,
3777373.4,     971.3,     971.3,       0.0);
     ( 556949.4, 3777373.4,     971.0,     971.0,       0.0);         ( 556969.4,
3777373.4,     970.9,     970.9,       0.0);
     ( 556989.4, 3777373.4,     970.6,     970.6,       0.0);         ( 557009.4,
3777373.4,     970.3,     970.3,       0.0);
     ( 557029.4, 3777373.4,     970.2,     970.2,       0.0);         ( 557049.4,
3777373.4,     969.8,     969.8,       0.0);
     ( 557069.4, 3777373.4,     969.2,     969.2,       0.0);         ( 557089.4,
3777373.4,     968.7,     968.7,       0.0);
     ( 557109.4, 3777373.4,     968.2,     968.2,       0.0);         ( 557129.4,
3777373.4,     967.7,     967.7,       0.0);
     ( 557149.4, 3777373.4,     967.3,     967.3,       0.0);         ( 557169.4,
3777373.4,     967.0,     967.0,       0.0);
     ( 557189.4, 3777373.4,     966.9,     966.9,       0.0);         ( 557209.4,
3777373.4,     966.8,     966.8,       0.0);
     ( 557229.4, 3777373.4,     966.5,     966.5,       0.0);         ( 557249.4,
3777373.4,     966.1,     966.1,       0.0);
     ( 557269.4, 3777373.4,     965.7,     965.7,       0.0);         ( 557289.4,
3777373.4,     965.5,     965.5,       0.0);
     ( 557309.4, 3777373.4,     965.4,     965.4,       0.0);         ( 557329.4,
3777373.4,     964.8,     964.8,       0.0);
     ( 557349.4, 3777373.4,     964.8,     964.8,       0.0);         ( 557369.4,
3777373.4,     964.5,     964.5,       0.0);
     ( 557389.4, 3777373.4,     964.1,     964.1,       0.0);         ( 557409.4,
3777373.4,     963.8,     963.8,       0.0);
     ( 557429.4, 3777373.4,     963.2,     963.2,       0.0);         ( 557449.4,
3777373.4,     962.9,     962.9,       0.0);
     ( 557469.4, 3777373.4,     962.4,     962.4,       0.0);         ( 557489.4,
3777373.4,     961.3,     961.3,       0.0);
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     ( 556509.4, 3777393.4,     973.6,     973.6,       0.0);         ( 556529.4,
3777393.4,     973.4,     973.4,       0.0);
     ( 556549.4, 3777393.4,     973.3,     973.3,       0.0);         ( 556569.4,
3777393.4,     973.1,     973.1,       0.0);
     ( 556589.4, 3777393.4,     973.3,     973.3,       0.0);         ( 556609.4,
3777393.4,     973.3,     973.3,       0.0);
     ( 556629.4, 3777393.4,     973.4,     973.4,       0.0);         ( 556649.4,
3777393.4,     973.2,     973.2,       0.0);
     ( 556669.4, 3777393.4,     973.0,     973.0,       0.0);         ( 556689.4,
3777393.4,     973.0,     973.0,       0.0);
     ( 556709.4, 3777393.4,     973.3,     973.3,       0.0);         ( 556729.4,
3777393.4,     973.3,     973.3,       0.0);
     ( 556749.4, 3777393.4,     973.5,     973.5,       0.0);         ( 556769.4,
3777393.4,     973.3,     973.3,       0.0);
     ( 556789.4, 3777393.4,     972.9,     972.9,       0.0);         ( 556809.4,
3777393.4,     972.8,     972.8,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       13:24:37

                                  PAGE   6
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

     ( 556829.4, 3777393.4,     972.6,     972.6,       0.0);         ( 556849.4,
3777393.4,     972.0,     972.0,       0.0);
     ( 556869.4, 3777393.4,     971.7,     971.7,       0.0);         ( 556889.4,
3777393.4,     971.7,     971.7,       0.0);
     ( 556909.4, 3777393.4,     971.2,     971.2,       0.0);         ( 556929.4,
3777393.4,     971.0,     971.0,       0.0);
     ( 556949.4, 3777393.4,     970.4,     970.4,       0.0);         ( 556969.4,
3777393.4,     970.3,     970.3,       0.0);
     ( 556989.4, 3777393.4,     970.2,     970.2,       0.0);         ( 557009.4,
3777393.4,     970.1,     970.1,       0.0);
     ( 557029.4, 3777393.4,     969.7,     969.7,       0.0);         ( 557049.4,
3777393.4,     969.4,     969.4,       0.0);
     ( 557069.4, 3777393.4,     969.0,     969.0,       0.0);         ( 557089.4,
3777393.4,     968.6,     968.6,       0.0);
     ( 557109.4, 3777393.4,     968.2,     968.2,       0.0);         ( 557129.4,
3777393.4,     967.5,     967.5,       0.0);
     ( 557149.4, 3777393.4,     967.2,     967.2,       0.0);         ( 557169.4,
3777393.4,     966.6,     966.6,       0.0);
     ( 557189.4, 3777393.4,     966.2,     966.2,       0.0);         ( 557209.4,
3777393.4,     966.2,     966.2,       0.0);
     ( 557229.4, 3777393.4,     966.2,     966.2,       0.0);         ( 557249.4,
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3777393.4,     965.8,     965.8,       0.0);
     ( 557269.4, 3777393.4,     965.5,     965.5,       0.0);         ( 557289.4,
3777393.4,     965.1,     965.1,       0.0);
     ( 557309.4, 3777393.4,     964.4,     964.4,       0.0);         ( 557329.4,
3777393.4,     964.5,     964.5,       0.0);
     ( 557349.4, 3777393.4,     964.2,     964.2,       0.0);         ( 557369.4,
3777393.4,     964.1,     964.1,       0.0);
     ( 557389.4, 3777393.4,     963.9,     963.9,       0.0);         ( 557409.4,
3777393.4,     963.4,     963.4,       0.0);
     ( 557429.4, 3777393.4,     963.0,     963.0,       0.0);         ( 557449.4,
3777393.4,     962.8,     962.8,       0.0);
     ( 557469.4, 3777393.4,     962.1,     962.1,       0.0);         ( 557489.4,
3777393.4,     961.1,     961.1,       0.0);
     ( 556509.4, 3777413.4,     973.0,     973.0,       0.0);         ( 556529.4,
3777413.4,     973.0,     973.0,       0.0);
     ( 556549.4, 3777413.4,     973.0,     973.0,       0.0);         ( 556569.4,
3777413.4,     973.1,     973.1,       0.0);
     ( 556589.4, 3777413.4,     973.1,     973.1,       0.0);         ( 556609.4,
3777413.4,     973.1,     973.1,       0.0);
     ( 556629.4, 3777413.4,     973.1,     973.1,       0.0);         ( 556649.4,
3777413.4,     972.8,     972.8,       0.0);
     ( 556669.4, 3777413.4,     972.8,     972.8,       0.0);         ( 556689.4,
3777413.4,     972.8,     972.8,       0.0);
     ( 556709.4, 3777413.4,     973.0,     973.0,       0.0);         ( 556729.4,
3777413.4,     973.0,     973.0,       0.0);
     ( 556749.4, 3777413.4,     972.8,     972.8,       0.0);         ( 556769.4,
3777413.4,     973.0,     973.0,       0.0);
     ( 556789.4, 3777413.4,     972.6,     972.6,       0.0);         ( 556809.4,
3777413.4,     972.5,     972.5,       0.0);
     ( 556829.4, 3777413.4,     972.1,     972.1,       0.0);         ( 556849.4,
3777413.4,     971.6,     971.6,       0.0);
     ( 556869.4, 3777413.4,     971.6,     971.6,       0.0);         ( 556889.4,
3777413.4,     971.2,     971.2,       0.0);
     ( 556909.4, 3777413.4,     970.9,     970.9,       0.0);         ( 556929.4,
3777413.4,     970.9,     970.9,       0.0);
     ( 556949.4, 3777413.4,     970.1,     970.1,       0.0);         ( 556969.4,
3777413.4,     969.8,     969.8,       0.0);
     ( 556989.4, 3777413.4,     969.5,     969.5,       0.0);         ( 557009.4,
3777413.4,     969.5,     969.5,       0.0);
     ( 557029.4, 3777413.4,     969.2,     969.2,       0.0);         ( 557049.4,
3777413.4,     969.0,     969.0,       0.0);
     ( 557069.4, 3777413.4,     968.7,     968.7,       0.0);         ( 557089.4,
3777413.4,     968.3,     968.3,       0.0);
     ( 557109.4, 3777413.4,     968.1,     968.1,       0.0);         ( 557129.4,
3777413.4,     967.2,     967.2,       0.0);
     ( 557149.4, 3777413.4,     967.1,     967.1,       0.0);         ( 557169.4,
3777413.4,     966.4,     966.4,       0.0);
     ( 557189.4, 3777413.4,     966.1,     966.1,       0.0);         ( 557209.4,
3777413.4,     966.0,     966.0,       0.0);
     ( 557229.4, 3777413.4,     965.6,     965.6,       0.0);         ( 557249.4,
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3777413.4,     965.3,     965.3,       0.0);
     ( 557269.4, 3777413.4,     965.1,     965.1,       0.0);         ( 557289.4,
3777413.4,     964.8,     964.8,       0.0);
     ( 557309.4, 3777413.4,     964.5,     964.5,       0.0);         ( 557329.4,
3777413.4,     964.0,     964.0,       0.0);
     ( 557349.4, 3777413.4,     964.0,     964.0,       0.0);         ( 557369.4,
3777413.4,     963.5,     963.5,       0.0);
     ( 557389.4, 3777413.4,     963.4,     963.4,       0.0);         ( 557409.4,
3777413.4,     963.3,     963.3,       0.0);
     ( 557429.4, 3777413.4,     962.5,     962.5,       0.0);         ( 557449.4,
3777413.4,     962.2,     962.2,       0.0);
     ( 557469.4, 3777413.4,     962.1,     962.1,       0.0);         ( 557489.4,
3777413.4,     961.3,     961.3,       0.0);
     ( 556509.4, 3777433.4,     972.6,     972.6,       0.0);         ( 556529.4,
3777433.4,     972.6,     972.6,       0.0);
     ( 556549.4, 3777433.4,     972.5,     972.5,       0.0);         ( 556569.4,
3777433.4,     972.5,     972.5,       0.0);
     ( 556589.4, 3777433.4,     972.7,     972.7,       0.0);         ( 556609.4,
3777433.4,     972.8,     972.8,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       13:24:37

                                  PAGE   7
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 556629.4, 3777433.4,     972.8,     972.8,       0.0);         ( 556649.4,
3777433.4,     972.7,     972.7,       0.0);
     ( 556669.4, 3777433.4,     972.6,     972.6,       0.0);         ( 556689.4,
3777433.4,     972.8,     972.8,       0.0);
     ( 556709.4, 3777433.4,     972.8,     972.8,       0.0);         ( 556729.4,
3777433.4,     972.9,     972.9,       0.0);
     ( 556749.4, 3777433.4,     972.6,     972.6,       0.0);         ( 556769.4,
3777433.4,     972.8,     972.8,       0.0);
     ( 556789.4, 3777433.4,     972.4,     972.4,       0.0);         ( 556809.4,
3777433.4,     972.0,     972.0,       0.0);
     ( 556829.4, 3777433.4,     971.6,     971.6,       0.0);         ( 556849.4,
3777433.4,     971.0,     971.0,       0.0);
     ( 556869.4, 3777433.4,     970.9,     970.9,       0.0);         ( 556889.4,
3777433.4,     970.7,     970.7,       0.0);
     ( 556909.4, 3777433.4,     970.5,     970.5,       0.0);         ( 556929.4,
3777433.4,     970.2,     970.2,       0.0);
     ( 556949.4, 3777433.4,     969.9,     969.9,       0.0);         ( 556969.4,
3777433.4,     969.3,     969.3,       0.0);
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     ( 556989.4, 3777433.4,     968.9,     968.9,       0.0);         ( 557009.4,
3777433.4,     969.1,     969.1,       0.0);
     ( 557029.4, 3777433.4,     968.9,     968.9,       0.0);         ( 557049.4,
3777433.4,     968.8,     968.8,       0.0);
     ( 557069.4, 3777433.4,     968.4,     968.4,       0.0);         ( 557089.4,
3777433.4,     968.0,     968.0,       0.0);
     ( 557109.4, 3777433.4,     967.8,     967.8,       0.0);         ( 557129.4,
3777433.4,     967.1,     967.1,       0.0);
     ( 557149.4, 3777433.4,     966.8,     966.8,       0.0);         ( 557169.4,
3777433.4,     966.1,     966.1,       0.0);
     ( 557189.4, 3777433.4,     965.8,     965.8,       0.0);         ( 557209.4,
3777433.4,     965.6,     965.6,       0.0);
     ( 557229.4, 3777433.4,     965.0,     965.0,       0.0);         ( 557249.4,
3777433.4,     965.0,     965.0,       0.0);
     ( 557269.4, 3777433.4,     964.7,     964.7,       0.0);         ( 557289.4,
3777433.4,     964.2,     964.2,       0.0);
     ( 557309.4, 3777433.4,     964.3,     964.3,       0.0);         ( 557329.4,
3777433.4,     963.7,     963.7,       0.0);
     ( 557349.4, 3777433.4,     962.9,     962.9,       0.0);         ( 557369.4,
3777433.4,     962.7,     962.7,       0.0);
     ( 557389.4, 3777433.4,     963.2,     963.2,       0.0);         ( 557409.4,
3777433.4,     963.2,     963.2,       0.0);
     ( 557429.4, 3777433.4,     962.2,     962.2,       0.0);         ( 557449.4,
3777433.4,     961.9,     961.9,       0.0);
     ( 557469.4, 3777433.4,     961.5,     961.5,       0.0);         ( 557489.4,
3777433.4,     961.1,     961.1,       0.0);
     ( 556509.4, 3777453.4,     972.2,     972.2,       0.0);         ( 556529.4,
3777453.4,     972.2,     972.2,       0.0);
     ( 556549.4, 3777453.4,     972.3,     972.3,       0.0);         ( 556569.4,
3777453.4,     972.2,     972.2,       0.0);
     ( 556589.4, 3777453.4,     972.3,     972.3,       0.0);         ( 556609.4,
3777453.4,     972.3,     972.3,       0.0);
     ( 556629.4, 3777453.4,     972.5,     972.5,       0.0);         ( 556649.4,
3777453.4,     972.5,     972.5,       0.0);
     ( 556669.4, 3777453.4,     972.4,     972.4,       0.0);         ( 556689.4,
3777453.4,     972.4,     972.4,       0.0);
     ( 556709.4, 3777453.4,     972.4,     972.4,       0.0);         ( 556729.4,
3777453.4,     972.6,     972.6,       0.0);
     ( 556749.4, 3777453.4,     972.6,     972.6,       0.0);         ( 556769.4,
3777453.4,     972.4,     972.4,       0.0);
     ( 556789.4, 3777453.4,     972.0,     972.0,       0.0);         ( 556809.4,
3777453.4,     971.6,     971.6,       0.0);
     ( 556829.4, 3777453.4,     971.4,     971.4,       0.0);         ( 556849.4,
3777453.4,     970.9,     970.9,       0.0);
     ( 556869.4, 3777453.4,     970.8,     970.8,       0.0);         ( 556889.4,
3777453.4,     970.2,     970.2,       0.0);
     ( 556909.4, 3777453.4,     970.1,     970.1,       0.0);         ( 556929.4,
3777453.4,     969.5,     969.5,       0.0);
     ( 556949.4, 3777453.4,     969.3,     969.3,       0.0);         ( 556969.4,
3777453.4,     968.9,     968.9,       0.0);
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     ( 556989.4, 3777453.4,     968.5,     968.5,       0.0);         ( 557009.4,
3777453.4,     968.1,     968.1,       0.0);
     ( 557029.4, 3777453.4,     968.0,     968.0,       0.0);         ( 557049.4,
3777453.4,     967.9,     967.9,       0.0);
     ( 557069.4, 3777453.4,     967.9,     967.9,       0.0);         ( 557089.4,
3777453.4,     967.7,     967.7,       0.0);
     ( 557109.4, 3777453.4,     967.5,     967.5,       0.0);         ( 557129.4,
3777453.4,     967.0,     967.0,       0.0);
     ( 557149.4, 3777453.4,     966.7,     966.7,       0.0);         ( 557169.4,
3777453.4,     965.8,     965.8,       0.0);
     ( 557189.4, 3777453.4,     965.4,     965.4,       0.0);         ( 557209.4,
3777453.4,     965.3,     965.3,       0.0);
     ( 557229.4, 3777453.4,     964.7,     964.7,       0.0);         ( 557249.4,
3777453.4,     964.7,     964.7,       0.0);
     ( 557269.4, 3777453.4,     964.3,     964.3,       0.0);         ( 557289.4,
3777453.4,     963.9,     963.9,       0.0);
     ( 557309.4, 3777453.4,     963.8,     963.8,       0.0);         ( 557329.4,
3777453.4,     963.5,     963.5,       0.0);
     ( 557349.4, 3777453.4,     963.2,     963.2,       0.0);         ( 557369.4,
3777453.4,     962.4,     962.4,       0.0);
     ( 557389.4, 3777453.4,     962.3,     962.9,       0.0);         ( 557409.4,
3777453.4,     962.6,     962.6,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE   8
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     ( 557429.4, 3777453.4,     962.3,     962.3,       0.0);         ( 557449.4,
3777453.4,     961.9,     961.9,       0.0);
     ( 557469.4, 3777453.4,     961.4,     961.4,       0.0);         ( 557489.4,
3777453.4,     960.7,     960.7,       0.0);
     ( 556509.4, 3777473.4,     971.8,     971.8,       0.0);         ( 556529.4,
3777473.4,     971.6,     971.6,       0.0);
     ( 556549.4, 3777473.4,     971.6,     971.6,       0.0);         ( 556569.4,
3777473.4,     971.9,     971.9,       0.0);
     ( 556589.4, 3777473.4,     971.8,     971.8,       0.0);         ( 556609.4,
3777473.4,     971.8,     971.8,       0.0);
     ( 556629.4, 3777473.4,     971.9,     971.9,       0.0);         ( 556649.4,
3777473.4,     972.0,     972.0,       0.0);
     ( 556669.4, 3777473.4,     972.0,     972.0,       0.0);         ( 556689.4,
3777473.4,     971.9,     971.9,       0.0);
     ( 556709.4, 3777473.4,     972.0,     972.0,       0.0);         ( 556729.4,
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3777473.4,     972.3,     972.3,       0.0);
     ( 556749.4, 3777473.4,     972.1,     972.1,       0.0);         ( 556769.4,
3777473.4,     972.0,     972.0,       0.0);
     ( 556789.4, 3777473.4,     971.5,     971.5,       0.0);         ( 556809.4,
3777473.4,     971.2,     971.2,       0.0);
     ( 556829.4, 3777473.4,     970.9,     970.9,       0.0);         ( 556849.4,
3777473.4,     970.7,     970.7,       0.0);
     ( 556869.4, 3777473.4,     970.5,     970.5,       0.0);         ( 556889.4,
3777473.4,     969.8,     969.8,       0.0);
     ( 556909.4, 3777473.4,     969.7,     969.7,       0.0);         ( 556929.4,
3777473.4,     969.4,     969.4,       0.0);
     ( 556949.4, 3777473.4,     969.1,     969.1,       0.0);         ( 556969.4,
3777473.4,     968.7,     968.7,       0.0);
     ( 556989.4, 3777473.4,     968.3,     968.3,       0.0);         ( 557009.4,
3777473.4,     968.0,     968.0,       0.0);
     ( 557029.4, 3777473.4,     967.8,     967.8,       0.0);         ( 557049.4,
3777473.4,     967.5,     967.5,       0.0);
     ( 557069.4, 3777473.4,     967.6,     967.6,       0.0);         ( 557089.4,
3777473.4,     967.3,     967.3,       0.0);
     ( 557109.4, 3777473.4,     967.2,     967.2,       0.0);         ( 557129.4,
3777473.4,     966.6,     966.6,       0.0);
     ( 557149.4, 3777473.4,     966.5,     966.5,       0.0);         ( 557169.4,
3777473.4,     965.6,     965.6,       0.0);
     ( 557189.4, 3777473.4,     965.2,     965.2,       0.0);         ( 557209.4,
3777473.4,     964.9,     964.9,       0.0);
     ( 557229.4, 3777473.4,     964.4,     964.4,       0.0);         ( 557249.4,
3777473.4,     964.4,     964.4,       0.0);
     ( 557269.4, 3777473.4,     963.9,     963.9,       0.0);         ( 557289.4,
3777473.4,     963.5,     963.5,       0.0);
     ( 557309.4, 3777473.4,     963.4,     963.4,       0.0);         ( 557329.4,
3777473.4,     963.2,     963.2,       0.0);
     ( 557349.4, 3777473.4,     962.9,     962.9,       0.0);         ( 557369.4,
3777473.4,     962.6,     962.6,       0.0);
     ( 557389.4, 3777473.4,     962.1,     962.1,       0.0);         ( 557409.4,
3777473.4,     962.1,     962.1,       0.0);
     ( 557429.4, 3777473.4,     961.6,     961.6,       0.0);         ( 557449.4,
3777473.4,     961.8,     961.8,       0.0);
     ( 557469.4, 3777473.4,     961.3,     961.3,       0.0);         ( 557489.4,
3777473.4,     960.7,     960.7,       0.0);
     ( 556509.4, 3777493.4,     971.4,     971.4,       0.0);         ( 556529.4,
3777493.4,     971.5,     971.5,       0.0);
     ( 556549.4, 3777493.4,     971.5,     971.5,       0.0);         ( 556569.4,
3777493.4,     971.1,     971.1,       0.0);
     ( 556589.4, 3777493.4,     971.1,     971.1,       0.0);         ( 556609.4,
3777493.4,     971.3,     971.3,       0.0);
     ( 556629.4, 3777493.4,     971.2,     971.2,       0.0);         ( 556649.4,
3777493.4,     971.3,     971.3,       0.0);
     ( 556669.4, 3777493.4,     971.6,     971.6,       0.0);         ( 556689.4,
3777493.4,     971.6,     971.6,       0.0);
     ( 556709.4, 3777493.4,     971.7,     971.7,       0.0);         ( 556729.4,
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3777493.4,     972.1,     972.1,       0.0);
     ( 556749.4, 3777493.4,     971.7,     971.7,       0.0);         ( 556769.4,
3777493.4,     971.6,     971.6,       0.0);
     ( 556789.4, 3777493.4,     971.1,     971.1,       0.0);         ( 556809.4,
3777493.4,     970.6,     970.6,       0.0);
     ( 556829.4, 3777493.4,     970.5,     970.5,       0.0);         ( 556849.4,
3777493.4,     970.2,     970.2,       0.0);
     ( 556869.4, 3777493.4,     970.1,     970.1,       0.0);         ( 556889.4,
3777493.4,     969.6,     969.6,       0.0);
     ( 556909.4, 3777493.4,     969.4,     969.4,       0.0);         ( 556929.4,
3777493.4,     969.0,     969.0,       0.0);
     ( 556949.4, 3777493.4,     968.7,     968.7,       0.0);         ( 556969.4,
3777493.4,     968.2,     968.2,       0.0);
     ( 556989.4, 3777493.4,     968.0,     968.0,       0.0);         ( 557009.4,
3777493.4,     967.9,     967.9,       0.0);
     ( 557029.4, 3777493.4,     967.5,     967.5,       0.0);         ( 557049.4,
3777493.4,     967.2,     967.2,       0.0);
     ( 557069.4, 3777493.4,     967.1,     967.1,       0.0);         ( 557089.4,
3777493.4,     966.8,     966.8,       0.0);
     ( 557109.4, 3777493.4,     966.9,     966.9,       0.0);         ( 557129.4,
3777493.4,     966.5,     966.5,       0.0);
     ( 557149.4, 3777493.4,     966.2,     966.2,       0.0);         ( 557169.4,
3777493.4,     965.6,     965.6,       0.0);
     ( 557189.4, 3777493.4,     964.9,     964.9,       0.0);         ( 557209.4,
3777493.4,     964.7,     964.7,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE   9
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                   (METERS)

     ( 557229.4, 3777493.4,     964.1,     964.1,       0.0);         ( 557249.4,
3777493.4,     963.8,     963.8,       0.0);
     ( 557269.4, 3777493.4,     963.5,     963.5,       0.0);         ( 557289.4,
3777493.4,     963.2,     963.2,       0.0);
     ( 557309.4, 3777493.4,     962.8,     962.8,       0.0);         ( 557329.4,
3777493.4,     962.6,     962.6,       0.0);
     ( 557349.4, 3777493.4,     962.4,     962.4,       0.0);         ( 557369.4,
3777493.4,     962.2,     962.2,       0.0);
     ( 557389.4, 3777493.4,     962.1,     962.1,       0.0);         ( 557409.4,
3777493.4,     961.9,     961.9,       0.0);
     ( 557429.4, 3777493.4,     961.0,     961.0,       0.0);         ( 557449.4,
3777493.4,     960.9,     961.3,       0.0);
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     ( 557469.4, 3777493.4,     961.0,     961.0,       0.0);         ( 557489.4,
3777493.4,     960.6,     960.6,       0.0);
     ( 556509.4, 3777513.4,     971.0,     971.0,       0.0);         ( 556529.4,
3777513.4,     971.0,     971.0,       0.0);
     ( 556549.4, 3777513.4,     970.8,     970.8,       0.0);         ( 556569.4,
3777513.4,     971.2,     971.2,       0.0);
     ( 556589.4, 3777513.4,     971.1,     971.1,       0.0);         ( 556609.4,
3777513.4,     970.9,     970.9,       0.0);
     ( 556629.4, 3777513.4,     971.2,     971.2,       0.0);         ( 556649.4,
3777513.4,     971.3,     971.3,       0.0);
     ( 556669.4, 3777513.4,     971.4,     971.4,       0.0);         ( 556689.4,
3777513.4,     971.2,     971.2,       0.0);
     ( 556709.4, 3777513.4,     971.4,     971.4,       0.0);         ( 556729.4,
3777513.4,     971.9,     971.9,       0.0);
     ( 556749.4, 3777513.4,     971.5,     971.5,       0.0);         ( 556769.4,
3777513.4,     971.5,     971.5,       0.0);
     ( 556789.4, 3777513.4,     971.0,     971.0,       0.0);         ( 556809.4,
3777513.4,     970.2,     970.2,       0.0);
     ( 556829.4, 3777513.4,     970.0,     970.0,       0.0);         ( 556849.4,
3777513.4,     969.6,     969.6,       0.0);
     ( 556869.4, 3777513.4,     969.5,     969.5,       0.0);         ( 556889.4,
3777513.4,     969.3,     969.3,       0.0);
     ( 556909.4, 3777513.4,     968.8,     968.8,       0.0);         ( 556929.4,
3777513.4,     968.6,     968.6,       0.0);
     ( 556949.4, 3777513.4,     968.4,     968.4,       0.0);         ( 556969.4,
3777513.4,     967.9,     967.9,       0.0);
     ( 556989.4, 3777513.4,     967.6,     967.6,       0.0);         ( 557009.4,
3777513.4,     967.5,     967.5,       0.0);
     ( 557029.4, 3777513.4,     967.1,     967.1,       0.0);         ( 557049.4,
3777513.4,     967.0,     967.0,       0.0);
     ( 557069.4, 3777513.4,     966.6,     966.6,       0.0);         ( 557089.4,
3777513.4,     966.4,     966.4,       0.0);
     ( 557109.4, 3777513.4,     966.3,     966.3,       0.0);         ( 557129.4,
3777513.4,     966.1,     966.1,       0.0);
     ( 557149.4, 3777513.4,     966.0,     966.0,       0.0);         ( 557169.4,
3777513.4,     965.5,     965.5,       0.0);
     ( 557189.4, 3777513.4,     964.8,     964.8,       0.0);         ( 557209.4,
3777513.4,     964.6,     964.6,       0.0);
     ( 557229.4, 3777513.4,     963.9,     963.9,       0.0);         ( 557249.4,
3777513.4,     963.7,     963.7,       0.0);
     ( 557269.4, 3777513.4,     963.3,     963.3,       0.0);         ( 557289.4,
3777513.4,     962.8,     962.8,       0.0);
     ( 557309.4, 3777513.4,     962.6,     962.6,       0.0);         ( 557329.4,
3777513.4,     962.4,     962.4,       0.0);
     ( 557349.4, 3777513.4,     962.1,     962.1,       0.0);         ( 557369.4,
3777513.4,     961.7,     961.7,       0.0);
     ( 557389.4, 3777513.4,     961.6,     961.6,       0.0);         ( 557409.4,
3777513.4,     961.5,     961.5,       0.0);
     ( 557429.4, 3777513.4,     961.0,     961.0,       0.0);         ( 557449.4,
3777513.4,     960.6,     960.6,       0.0);
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     ( 557469.4, 3777513.4,     960.4,     960.4,       0.0);         ( 557489.4,
3777513.4,     960.2,     960.2,       0.0);
     ( 556509.4, 3777533.4,     970.5,     970.5,       0.0);         ( 556529.4,
3777533.4,     970.6,     970.6,       0.0);
     ( 556549.4, 3777533.4,     970.5,     970.5,       0.0);         ( 556569.4,
3777533.4,     970.5,     970.5,       0.0);
     ( 556589.4, 3777533.4,     970.4,     970.4,       0.0);         ( 556609.4,
3777533.4,     970.5,     970.5,       0.0);
     ( 556629.4, 3777533.4,     970.6,     970.6,       0.0);         ( 556649.4,
3777533.4,     970.7,     970.7,       0.0);
     ( 556669.4, 3777533.4,     970.6,     970.6,       0.0);         ( 556689.4,
3777533.4,     970.7,     970.7,       0.0);
     ( 556709.4, 3777533.4,     971.2,     971.2,       0.0);         ( 556729.4,
3777533.4,     971.5,     971.5,       0.0);
     ( 556749.4, 3777533.4,     971.3,     971.3,       0.0);         ( 556769.4,
3777533.4,     971.0,     971.0,       0.0);
     ( 556789.4, 3777533.4,     970.8,     970.8,       0.0);         ( 556809.4,
3777533.4,     969.9,     969.9,       0.0);
     ( 556829.4, 3777533.4,     969.8,     969.8,       0.0);         ( 556849.4,
3777533.4,     969.2,     969.2,       0.0);
     ( 556869.4, 3777533.4,     969.0,     969.0,       0.0);         ( 556889.4,
3777533.4,     968.8,     968.8,       0.0);
     ( 556909.4, 3777533.4,     968.5,     968.5,       0.0);         ( 556929.4,
3777533.4,     968.2,     968.2,       0.0);
     ( 556949.4, 3777533.4,     967.9,     967.9,       0.0);         ( 556969.4,
3777533.4,     967.4,     967.4,       0.0);
     ( 556989.4, 3777533.4,     967.1,     967.1,       0.0);         ( 557009.4,
3777533.4,     966.9,     966.9,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE  10
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                            *** DISCRETE CARTESIAN RECEPTORS ***
                                          (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                       (METERS)

     ( 557029.4, 3777533.4,     966.7,     966.7,       0.0);         ( 557049.4,
3777533.4,     966.5,     966.5,       0.0);
     ( 557069.4, 3777533.4,     966.3,     966.3,       0.0);         ( 557089.4,
3777533.4,     966.0,     966.0,       0.0);
     ( 557109.4, 3777533.4,     965.9,     965.9,       0.0);         ( 557129.4,
3777533.4,     965.9,     965.9,       0.0);
     ( 557149.4, 3777533.4,     965.9,     965.9,       0.0);         ( 557169.4,
3777533.4,     965.3,     965.3,       0.0);
     ( 557189.4, 3777533.4,     964.7,     964.7,       0.0);         ( 557209.4,
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3777533.4,   964.6,   964.6,   0.0);
     (557229.4, 3777533.4,   963.6,   963.6,   0.0);   (557249.4,
3777533.4,   963.5,   963.5,   0.0);
     (557269.4, 3777533.4,   962.9,   962.9,   0.0);   (557289.4,
3777533.4,   962.6,   962.6,   0.0);
     (557309.4, 3777533.4,   962.3,   962.3,   0.0);   (557329.4,
3777533.4,   962.0,   962.0,   0.0);
     (557349.4, 3777533.4,   961.8,   961.8,   0.0);   (557369.4,
3777533.4,   961.4,   961.4,   0.0);
     (557389.4, 3777533.4,   960.9,   960.9,   0.0);   (557409.4,
3777533.4,   960.9,   960.9,   0.0);
     (557429.4, 3777533.4,   960.6,   960.6,   0.0);   (557449.4,
3777533.4,   960.5,   960.5,   0.0);
     (557469.4, 3777533.4,   959.9,   959.9,   0.0);   (557489.4,
3777533.4,   959.5,   959.5,   0.0);
     (556509.4, 3777553.4,   970.2,   970.2,   0.0);   (556529.4,
3777553.4,   970.2,   970.2,   0.0);
     (556549.4, 3777553.4,   970.0,   970.0,   0.0);   (556569.4,
3777553.4,   970.1,   970.1,   0.0);
     (556589.4, 3777553.4,   970.2,   970.2,   0.0);   (556609.4,
3777553.4,   970.1,   970.1,   0.0);
     (556629.4, 3777553.4,   970.2,   970.2,   0.0);   (556649.4,
3777553.4,   970.3,   970.3,   0.0);
     (556669.4, 3777553.4,   970.0,   970.0,   0.0);   (556689.4,
3777553.4,   970.1,   970.1,   0.0);
     (556709.4, 3777553.4,   970.7,   970.7,   0.0);   (556729.4,
3777553.4,   971.0,   971.0,   0.0);
     (556749.4, 3777553.4,   970.5,   970.5,   0.0);   (556769.4,
3777553.4,   970.3,   970.3,   0.0);
     (556789.4, 3777553.4,   970.2,   970.2,   0.0);   (556809.4,
3777553.4,   969.6,   969.6,   0.0);
     (556829.4, 3777553.4,   969.3,   969.3,   0.0);   (556849.4,
3777553.4,   968.8,   968.8,   0.0);
     (556869.4, 3777553.4,   968.5,   968.5,   0.0);   (556889.4,
3777553.4,   968.4,   968.4,   0.0);
     (556909.4, 3777553.4,   968.2,   968.2,   0.0);   (556929.4,
3777553.4,   968.1,   968.1,   0.0);
     (556949.4, 3777553.4,   967.3,   967.3,   0.0);   (556969.4,
3777553.4,   966.9,   966.9,   0.0);
     (556989.4, 3777553.4,   966.4,   966.4,   0.0);   (557009.4,
3777553.4,   966.2,   966.2,   0.0);
     (557029.4, 3777553.4,   965.9,   965.9,   0.0);   (557049.4,
3777553.4,   965.8,   965.8,   0.0);
     (557069.4, 3777553.4,   965.7,   965.7,   0.0);   (557089.4,
3777553.4,   965.5,   965.5,   0.0);
     (557109.4, 3777553.4,   965.2,   965.2,   0.0);   (557129.4,
3777553.4,   965.2,   965.2,   0.0);
     (557149.4, 3777553.4,   965.2,   965.2,   0.0);   (557169.4,
3777553.4,   964.9,   964.9,   0.0);
     (557189.4, 3777553.4,   964.5,   964.5,   0.0);   (557209.4,

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3777553.4,     964.1,     964.1,       0.0);
     ( 557229.4, 3777553.4,     963.5,     963.5,       0.0);         ( 557249.4,
3777553.4,     962.9,     962.9,       0.0);
     ( 557269.4, 3777553.4,     962.5,     962.5,       0.0);         ( 557289.4,
3777553.4,     962.2,     962.2,       0.0);
     ( 557309.4, 3777553.4,     961.9,     961.9,       0.0);         ( 557329.4,
3777553.4,     961.6,     961.6,       0.0);
     ( 557349.4, 3777553.4,     961.4,     961.4,       0.0);         ( 557369.4,
3777553.4,     961.2,     961.2,       0.0);
     ( 557389.4, 3777553.4,     960.6,     960.6,       0.0);         ( 557409.4,
3777553.4,     960.5,     960.5,       0.0);
     ( 557429.4, 3777553.4,     960.2,     960.2,       0.0);         ( 557449.4,
3777553.4,     960.0,     960.0,       0.0);
     ( 557469.4, 3777553.4,     959.7,     959.7,       0.0);         ( 557489.4,
3777553.4,     959.0,     959.0,       0.0);
     ( 557438.9, 3777336.7,     963.4,     963.4,       0.0);         ( 556615.9,
3777137.0,     979.2,     979.2,       0.0);
     ( 556586.4, 3777056.2,     980.5,     981.8,       0.0);         ( 556672.4,
3776929.1,     979.7,     985.3,       0.0);
     ( 556692.4, 3776929.1,     979.9,     979.9,       0.0);         ( 556712.4,
3776929.1,     979.8,     979.8,       0.0);
     ( 556732.4, 3776929.1,     979.7,     979.7,       0.0);         ( 556752.4,
3776929.1,     979.1,     979.1,       0.0);
     ( 556772.4, 3776929.1,     979.3,     979.3,       0.0);         ( 556792.4,
3776929.1,     979.5,     979.5,       0.0);
     ( 556812.4, 3776929.1,     979.1,     979.1,       0.0);         ( 556832.4,
3776929.1,     979.6,     979.6,       0.0);
     ( 556852.4, 3776929.1,     979.6,     979.6,       0.0);         ( 556672.4,
3776949.1,     979.8,     979.8,       0.0);
     ( 556692.4, 3776949.1,     979.9,     979.9,       0.0);         ( 556712.4,
3776949.1,     980.0,     980.0,       0.0);
↟ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE  11
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                    (METERS)

     ( 556732.4, 3776949.1,     980.0,     980.0,       0.0);         ( 556752.4,
3776949.1,     979.9,     979.9,       0.0);
     ( 556772.4, 3776949.1,     979.7,     979.7,       0.0);         ( 556792.4,
3776949.1,     979.3,     979.3,       0.0);
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     ( 556732.4, 3776989.1,     980.0,     980.0,       0.0);         ( 556752.4,
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     ( 556852.4, 3777009.1,     979.7,     979.7,       0.0);         ( 556672.4,
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     ( 556947.5, 3776999.5,     977.3,     977.3,       0.0);         ( 556967.5,
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     ( 556987.5, 3776999.5,     977.5,     977.5,       0.0);         ( 557007.5,
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     ( 557067.5, 3776999.5,     977.5,     977.5,       0.0);         ( 557087.5,
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     ( 557007.5, 3777019.5,     977.6,     977.6,       0.0);         ( 557027.5,
3777019.5,     977.6,     977.6,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       13:24:37

                                PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

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 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                        ***       13:24:37

                                  PAGE  13
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)
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    ( 556441.7, 3776987.5,     984.2,     984.2,       0.0);         ( 556461.7,
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    ( 556441.7, 3777007.5,     984.1,     984.1,       0.0);         ( 556461.7,
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    ( 557630.3, 3776548.2,     986.3,     986.3,       0.0);         ( 557650.3,
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     ( 557630.3, 3776568.2,     985.5,     985.5,       0.0);         ( 557650.3,
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     ( 557590.3, 3776588.2,     984.8,     984.8,       0.0);         ( 557610.3,
3776588.2,     984.8,     984.8,       0.0);
     ( 557630.3, 3776588.2,     984.9,     984.9,       0.0);         ( 557650.3,
3776588.2,     984.9,     984.9,       0.0);
     ( 557670.3, 3776588.2,     985.0,     985.0,       0.0);         ( 557690.3,
3776588.2,     985.0,     985.0,       0.0);
     ( 557510.3, 3776608.2,     984.8,     984.8,       0.0);         ( 557530.3,
3776608.2,     984.8,     984.8,       0.0);
     ( 557550.3, 3776608.2,     984.5,     984.5,       0.0);         ( 557570.3,
3776608.2,     984.3,     984.3,       0.0);
     ( 557590.3, 3776608.2,     984.1,     984.1,       0.0);         ( 557610.3,
3776608.2,     984.1,     984.1,       0.0);
     ( 557630.3, 3776608.2,     984.2,     984.2,       0.0);         ( 557650.3,
3776608.2,     984.2,     984.2,       0.0);
     ( 557670.3, 3776608.2,     984.2,     984.2,       0.0);         ( 557690.3,
3776608.2,     984.2,     984.2,       0.0);
     ( 557510.3, 3776628.2,     984.1,     984.1,       0.0);         ( 557530.3,
3776628.2,     984.0,     984.0,       0.0);
     ( 557550.3, 3776628.2,     983.8,     983.8,       0.0);         ( 557570.3,
3776628.2,     983.8,     983.8,       0.0);
     ( 557590.3, 3776628.2,     983.5,     983.5,       0.0);         ( 557610.3,
3776628.2,     983.4,     983.4,       0.0);
     ( 557630.3, 3776628.2,     983.5,     983.5,       0.0);         ( 557650.3,
3776628.2,     983.6,     983.6,       0.0);
     ( 557670.3, 3776628.2,     983.6,     983.6,       0.0);         ( 557690.3,
3776628.2,     983.6,     983.6,       0.0);
     ( 557510.3, 3776648.2,     983.3,     983.3,       0.0);         ( 557530.3,
3776648.2,     983.2,     983.2,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                              *** DISCRETE CARTESIAN RECEPTORS ***
```

(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(557550.3, 3776648.2, 983.0, 983.0, 0.0); (557570.3, 3776648.2, 982.8, 982.8, 0.0);
(557590.3, 3776648.2, 982.8, 982.8, 0.0); (557610.3, 3776648.2, 982.7, 982.7, 0.0);
(557630.3, 3776648.2, 982.8, 982.8, 0.0); (557650.3, 3776648.2, 982.9, 982.9, 0.0);
(557670.3, 3776648.2, 982.9, 982.9, 0.0); (557690.3, 3776648.2, 982.9, 982.9, 0.0);
(557510.3, 3776668.2, 982.5, 982.5, 0.0); (557530.3, 3776668.2, 982.4, 982.4, 0.0);
(557550.3, 3776668.2, 982.2, 982.2, 0.0); (557570.3, 3776668.2, 982.1, 982.1, 0.0);
(557590.3, 3776668.2, 982.2, 982.2, 0.0); (557610.3, 3776668.2, 982.0, 982.0, 0.0);
(557630.3, 3776668.2, 982.0, 982.0, 0.0); (557650.3, 3776668.2, 982.2, 982.2, 0.0);
(557670.3, 3776668.2, 982.2, 982.2, 0.0); (557690.3, 3776668.2, 982.3, 982.3, 0.0);
(557510.3, 3776688.2, 981.8, 981.8, 0.0); (557530.3, 3776688.2, 981.7, 981.7, 0.0);
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(557590.3, 3776688.2, 981.3, 981.3, 0.0); (557610.3, 3776688.2, 981.2, 981.2, 0.0);
(557630.3, 3776688.2, 981.3, 981.3, 0.0); (557650.3, 3776688.2, 981.5, 981.5, 0.0);
(557670.3, 3776688.2, 981.5, 981.5, 0.0); (557690.3, 3776688.2, 981.4, 981.4, 0.0);
(556172.5, 3776517.8, 992.8, 992.8, 0.0); (556192.5, 3776517.8, 992.8, 992.8, 0.0);
(556212.5, 3776517.8, 993.4, 993.4, 0.0); (556232.5, 3776517.8, 993.7, 993.7, 0.0);
(556252.5, 3776517.8, 994.0, 994.0, 0.0); (556272.5, 3776517.8, 994.0, 994.0, 0.0);
(556292.5, 3776517.8, 994.0, 994.0, 0.0); (556312.5, 3776517.8, 994.1, 994.1, 0.0);
(556332.5, 3776517.8, 994.1, 994.1, 0.0); (556352.5, 3776517.8, 994.3, 994.3, 0.0);
(556372.5, 3776517.8, 994.9, 994.9, 0.0); (556392.5, 3776517.8, 994.8, 994.8, 0.0);
(556412.5, 3776517.8, 995.0, 995.0, 0.0); (556432.5, 3776517.8, 995.3, 995.3, 0.0);
(556452.5, 3776517.8, 995.8, 995.8, 0.0); (556472.5, 3776517.8, 995.6, 995.6, 0.0);
(556492.5, 3776517.8, 995.5, 995.5, 0.0); (556172.5, 3776537.8, 992.4, 992.4, 0.0);
(556192.5, 3776537.8, 992.7, 992.7, 0.0); (556212.5,

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     ( 556232.5, 3776537.8,     993.2,     993.2,       0.0);         ( 556252.5,
3776537.8,     993.6,     993.6,       0.0);
     ( 556272.5, 3776537.8,     993.9,     993.9,       0.0);         ( 556292.5,
3776537.8,     993.7,     993.7,       0.0);
     ( 556312.5, 3776537.8,     993.8,     993.8,       0.0);         ( 556332.5,
3776537.8,     993.6,     993.6,       0.0);
     ( 556352.5, 3776537.8,     993.8,     993.8,       0.0);         ( 556372.5,
3776537.8,     994.3,     994.3,       0.0);
     ( 556392.5, 3776537.8,     994.8,     994.8,       0.0);         ( 556412.5,
3776537.8,     994.8,     994.8,       0.0);
     ( 556432.5, 3776537.8,     994.9,     994.9,       0.0);         ( 556452.5,
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     ( 556472.5, 3776537.8,     995.2,     995.2,       0.0);         ( 556492.5,
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     ( 556332.5, 3776557.8,     993.1,     993.1,       0.0);         ( 556352.5,
3776557.8,     993.6,     993.6,       0.0);
     ( 556372.5, 3776557.8,     993.6,     993.6,       0.0);         ( 556392.5,
3776557.8,     994.1,     994.1,       0.0);
     ( 556412.5, 3776557.8,     994.1,     994.1,       0.0);         ( 556432.5,
3776557.8,     994.4,     994.4,       0.0);
     ( 556452.5, 3776557.8,     994.8,     994.8,       0.0);         ( 556472.5,
3776557.8,     994.8,     994.8,       0.0);
     ( 556492.5, 3776557.8,     994.6,     994.6,       0.0);         ( 556332.5,
3776577.8,     992.8,     992.8,       0.0);
     ( 556352.5, 3776577.8,     992.9,     992.9,       0.0);         ( 556372.5,
3776577.8,     993.1,     993.1,       0.0);
     ( 556392.5, 3776577.8,     993.2,     993.2,       0.0);         ( 556412.5,
3776577.8,     993.4,     993.4,       0.0);
     ( 556432.5, 3776577.8,     993.8,     993.8,       0.0);         ( 556452.5,
3776577.8,     994.1,     994.1,       0.0);
     ( 556472.5, 3776577.8,     994.2,     994.2,       0.0);         ( 556492.5,
3776577.8,     994.2,     994.2,       0.0);
     ( 556332.5, 3776597.8,     992.2,     992.2,       0.0);         ( 556352.5,
3776597.8,     992.3,     992.3,       0.0);
     ( 556372.5, 3776597.8,     992.6,     992.6,       0.0);         ( 556392.5,
3776597.8,     993.0,     993.0,       0.0);
     ( 556412.5, 3776597.8,     992.9,     992.9,       0.0);         ( 556432.5,
3776597.8,     993.3,     993.3,       0.0);
     ( 556452.5, 3776597.8,     993.8,     993.8,       0.0);         ( 556472.5,
3776597.8,     994.0,     994.0,       0.0);
     ( 556492.5, 3776597.8,     993.7,     993.7,       0.0);         ( 556252.5,
3776617.8,     990.9,     990.9,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       13:24:37

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(556272.5, 3776617.8, 991.3, 991.3, 0.0); (556292.5, 3776617.8, 991.5, 991.5, 0.0);
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(556352.5, 3776617.8, 991.8, 991.8, 0.0); (556372.5, 3776617.8, 991.8, 991.8, 0.0);
(556392.5, 3776617.8, 992.2, 992.2, 0.0); (556412.5, 3776617.8, 992.2, 992.2, 0.0);
(556432.5, 3776617.8, 992.7, 992.7, 0.0); (556452.5, 3776617.8, 992.9, 992.9, 0.0);
(556472.5, 3776617.8, 993.6, 993.6, 0.0); (556492.5, 3776617.8, 993.3, 993.3, 0.0);
(556252.5, 3776637.8, 990.4, 990.4, 0.0); (556272.5, 3776637.8, 990.3, 991.2, 0.0);
(556292.5, 3776637.8, 990.9, 990.9, 0.0); (556312.5, 3776637.8, 991.2, 991.2, 0.0);
(556332.5, 3776637.8, 991.1, 991.1, 0.0); (556352.5, 3776637.8, 991.4, 991.4, 0.0);
(556372.5, 3776637.8, 991.3, 991.3, 0.0); (556392.5, 3776637.8, 991.7, 991.7, 0.0);
(556412.5, 3776637.8, 991.9, 991.9, 0.0); (556432.5, 3776637.8, 992.1, 992.1, 0.0);
(556452.5, 3776637.8, 992.5, 992.5, 0.0); (556472.5, 3776637.8, 992.8, 992.8, 0.0);
(556492.5, 3776637.8, 992.9, 992.9, 0.0); (556252.5, 3776657.8, 989.7, 989.7, 0.0);
(556272.5, 3776657.8, 989.8, 989.8, 0.0); (556292.5, 3776657.8, 989.9, 989.9, 0.0);
(556312.5, 3776657.8, 990.8, 990.8, 0.0); (556332.5, 3776657.8, 990.6, 990.6, 0.0);
(556352.5, 3776657.8, 990.6, 990.6, 0.0); (556372.5, 3776657.8, 990.7, 990.7, 0.0);
(556392.5, 3776657.8, 991.3, 991.3, 0.0); (556412.5, 3776657.8, 991.5, 991.5, 0.0);
(556432.5, 3776657.8, 991.8, 991.8, 0.0); (556452.5, 3776657.8, 992.0, 992.0, 0.0);
(556472.5, 3776657.8, 992.3, 992.3, 0.0); (556492.5, 3776657.8, 992.4, 992.4, 0.0);
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(556292.5, 3776677.8, 989.8, 989.8, 0.0); (556312.5, 3776677.8, 989.9, 989.9, 0.0);
(556332.5, 3776677.8, 990.0, 990.0, 0.0); (556352.5, 3776677.8, 990.0, 990.0, 0.0);

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     ( 556372.5, 3776677.8,     990.3,     990.3,       0.0);         ( 556392.5,
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     ( 556412.5, 3776677.8,     990.8,     990.8,       0.0);         ( 556432.5,
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     ( 556452.5, 3776677.8,     991.7,     991.7,       0.0);         ( 556472.5,
3776677.8,     991.8,     991.8,       0.0);
     ( 556492.5, 3776677.8,     991.9,     991.9,       0.0);         ( 556252.5,
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     ( 556272.5, 3776697.8,     989.0,     989.0,       0.0);         ( 556372.5,
3776697.8,     989.8,     989.8,       0.0);
     ( 556392.5, 3776697.8,     990.5,     990.5,       0.0);         ( 556412.5,
3776697.8,     990.5,     990.5,       0.0);
     ( 556432.5, 3776697.8,     990.9,     990.9,       0.0);         ( 556452.5,
3776697.8,     991.3,     991.3,       0.0);
     ( 556472.5, 3776697.8,     991.4,     991.4,       0.0);         ( 556492.5,
3776697.8,     991.4,     991.4,       0.0);
     ( 556252.5, 3776717.8,     988.6,     988.6,       0.0);         ( 556272.5,
3776717.8,     988.6,     988.6,       0.0);
     ( 556372.5, 3776717.8,     989.2,     989.2,       0.0);         ( 556392.5,
3776717.8,     990.0,     990.0,       0.0);
     ( 556412.5, 3776717.8,     990.1,     990.1,       0.0);         ( 556432.5,
3776717.8,     990.5,     990.5,       0.0);
     ( 556452.5, 3776717.8,     990.9,     990.9,       0.0);         ( 556472.5,
3776717.8,     990.6,     990.6,       0.0);
     ( 556492.5, 3776717.8,     991.0,     991.0,       0.0);         ( 556267.4,
3776875.8,     984.3,     984.3,       0.0);
     ( 556239.0, 3776853.0,     985.0,     985.0,       0.0);         ( 556178.8,
3776751.2,     986.0,     986.0,       0.0);
     ( 556154.5, 3776774.5,     986.0,     986.0,       0.0);         ( 556119.5,
3776705.1,     986.9,     986.9,       0.0);
     ( 556146.5, 3777267.9,     975.8,     975.8,       0.0);         ( 556151.0,
3777234.9,     976.6,     976.6,       0.0);
     ( 556144.9, 3777179.6,     977.1,     977.1,       0.0);         ( 556205.2,
3777236.5,     976.5,     976.5,       0.0);
     ( 556218.0, 3777200.0,     977.6,     977.6,       0.0);         ( 556773.5,
3777349.0,     973.8,     973.8,       0.0);
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***       13:24:37

                                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                              (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
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1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
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NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: ..\kpsp_sfc_pfl\KPSP_V11_trimmed.sfc
Met Version: 22112
Profile file: ..\kpsp_sfc_pfl\KPSP_V11_trimmed.pfl

Surface format: FREE

Profile format: FREE

Surface station no.: 93138 Upper air station no.: 3190
Name: 33.63 Name: UNKNOWN

Year: 2018 Year: 2018

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
18	01	01	1	01	-14.0	0.169	-9.000	-9.000	-999.	440.	31.3	0.20	3.95	1.00	1.76	251.	10.1	283.1	2.0
18	01	01	1	02	-29.9	0.302	-9.000	-9.000	-999.	400.	100.6	0.42	3.95	1.00	2.36	318.	10.1	283.8	2.0
18	01	01	1	03	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	283.1	2.0
18	01	01	1	04	-23.9	0.242	-9.000	-9.000	-999.	286.	64.5	0.05	3.95	1.00	3.36	343.	10.1	284.2	2.0
18	01	01	1	05	-22.2	0.222	-9.000	-9.000	-999.	251.	54.3	0.42	3.95	1.00	1.76	313.	10.1	281.4	2.0
18	01	01	1	06	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	282.0	2.0
18	01	01	1	07	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	282.0	2.0
18	01	01	1	08	-10.1	0.158	-9.000	-9.000	-999.	151.	34.8	0.15	3.95	0.51	1.76	999.	10.1	284.2	2.0
18	01	01	1	09	49.7	-9.000	-9.000	-9.000	112.	-999.	-99999.0	0.15	3.95	0.31	0.00	0.	10.1	288.1	2.0
18	01	01	1	10	126.4	-9.000	-9.000	-9.000	210.	-999.	-99999.0	0.15	3.95	0.24	0.00	0.	10.1	292.0	2.0
18	01	01	1	11	179.4	0.238	1.188	0.010	336.	279.	-6.8	0.15	3.95	0.22	1.76	999.	10.1	295.3	2.0
18	01	01	1	12	204.5	-9.000	-9.000	-9.000	506.	-999.	-99999.0	0.15	3.95	0.21	0.00	0.	10.1	297.5	2.0
18	01	01	1	13	199.1	-9.000	-9.000	-9.000	674.	-999.	-99999.0	0.15	3.95	0.21	0.00	0.	10.1	297.0	2.0
18	01	01	1	14	166.1	0.306	1.531	0.006	774.	406.	-15.4	0.05	3.95	0.23	3.36	119.	10.1	297.0	2.0
18	01	01	1	15	106.1	0.177	1.363	0.006	855.	189.	-4.7	0.04	3.95	0.26	1.76	132.	10.1	296.4	2.0
18	01	01	1	16	25.4	-9.000	-9.000	-9.000	876.	-999.	-99999.0	0.15	3.95	0.36	0.00	0.	10.1	295.9	2.0
18	01	01	1	17	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	0.66	0.00	0.	10.1	294.8	2.0
18	01	01	1	18	-16.2	0.186	-9.000	-9.000	-999.	193.	38.1	0.27	3.95	1.00	1.76	237.	10.1	293.1	2.0
18	01	01	1	19	-14.9	0.167	-9.000	-9.000	-999.	164.	30.6	0.05	3.95	1.00	2.36	334.	10.1	290.9	2.0
18	01	01	1	20	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	288.8	2.0
18	01	01	1	21	-23.6	0.242	-9.000	-9.000	-999.	286.	64.5	0.05	3.95	1.00	3.36	330.	10.1	288.1	2.0
18	01	01	1	22	-999.0	-9.000	-9.000	-9.000	-999.	-999.	-99999.0	0.15	3.95	1.00	0.00	0.	10.1	286.4	2.0

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 18 01 01   1 23  -20.0  0.205 -9.000 -9.000 -999.  222.     46.0  0.05   3.95
1.00    2.86  330.   10.1  288.1    2.0
 18 01 01   1 24  -49.4  0.505 -9.000 -9.000 -999.  862.    280.9  0.42   3.95
1.00    3.86  310.   10.1  287.5    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 18 01 01 01   10.1 1  251.    1.76   283.2   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                  INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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3777344.94        8.57111
         556591.78    3777345.39       11.53010                     556630.62
3777349.66       14.75573
         556684.29    3777349.43       21.86417                     556905.58
3777351.19       28.15491
         556920.93    3777350.82       24.77558                     556942.87
3777350.09       20.38004
         556996.26    3777348.26       14.31855                     557096.81
3777357.77        8.89899
         557115.83    3777363.62        8.03960                     557129.36
3777361.43        7.74895
         557230.65    3777363.99        5.46013                     556466.22
3776816.07        0.90415
         556407.87    3776826.19        0.83044                     556381.07
3776807.14        0.76344
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         556404.29    3776771.52        0.71686                    556465.21
3776739.51        0.75440
         556396.10    3776739.93        0.66672                    556323.99
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         556330.60    3777233.99        3.00885                    556321.08
3777200.43        2.70906
         556275.11    3777267.81        2.66850                    556278.28
3777233.46        2.53132
         556509.40    3777373.38        7.15579                    556529.40
3777373.38        7.86920
         556549.40    3777373.38        8.70862                    556569.40
3777373.38        9.68387
         556589.40    3777373.38       10.86473                    556609.40
3777373.38       12.23052
         556629.40    3777373.38       13.88171                    556649.40
3777373.38       15.80793
         556669.40    3777373.38       18.13511                    556689.40
3777373.38       20.79484
         556709.40    3777373.38       23.35606                    556729.40
3777373.38       25.02138
         556749.40    3777373.38       25.14114                    556769.40
3777373.38       23.82975
         556789.40    3777373.38       22.95237                    556809.40
3777373.38       23.44784
         556829.40    3777373.38       24.52041                    556849.40
3777373.38       25.32981
         556869.40    3777373.38       25.54506                    556889.40
3777373.38       24.53825
         556909.40    3777373.38       22.35559                    556929.40
3777373.38       19.44823
         556949.40    3777373.38       16.57048                    556969.40
3777373.38       14.20167
         556989.40    3777373.38       12.43974                    557009.40
3777373.38       11.17708
         557029.40    3777373.38       10.27024                    557049.40
3777373.38        9.53471
         557069.40    3777373.38        8.87821                    557089.40
3777373.38        8.30106
         557109.40    3777373.38        7.76953                    557129.40
3777373.38        7.27813
         557149.40    3777373.38        6.82087                    557169.40
3777373.38        6.40113
         557189.40    3777373.38        6.02274                    557209.40
3777373.38        5.66537
         557229.40    3777373.38        5.32118                    557249.40
3777373.38        4.99669
         557269.40    3777373.38        4.69218                    557289.40
3777373.38        4.42128
         557309.40    3777373.38        4.17353                    557329.40
3777373.38        3.92952
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         557389.40    3777373.38        3.32573                      557409.40
3777373.38        3.15129
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3777373.38        2.83509
         557469.40    3777373.38        2.69259                      557489.40
3777373.38        2.54996
         556509.40    3777393.38        6.99489                      556529.40
3777393.38        7.67167
         556549.40    3777393.38        8.46380                      556569.40
3777393.38        9.37622
         556589.40    3777393.38       10.49145                      556609.40
3777393.38       11.76545
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  19
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3777393.38       14.98779
         556669.40    3777393.38       16.87637                      556689.40
3777393.38       18.76527
         556709.40    3777393.38       20.27709                      556729.40
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3777393.38       19.01088
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         556869.40    3777393.38       20.66680                      556889.40
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         557069.40    3777393.38        7.84759                  557089.40
3777393.38        7.37728
         557109.40    3777393.38        6.95849                  557129.40
3777393.38        6.54367
         557149.40    3777393.38        6.18838                  557169.40
3777393.38        5.83761
         557189.40    3777393.38        5.51429                  557209.40
3777393.38        5.22922
         557229.40    3777393.38        4.95522                  557249.40
3777393.38        4.67986
         557269.40    3777393.38        4.42783                  557289.40
3777393.38        4.18790
         557309.40    3777393.38        3.95328                  557329.40
3777393.38        3.75534
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3777393.38        3.38251
         557389.40    3777393.38        3.21389                  557409.40
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         557429.40    3777393.38        2.89941                  557449.40
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         556549.40    3777413.38        8.24443                  556569.40
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         556589.40    3777413.38       10.14974                  556609.40
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         556709.40    3777413.38       17.31894                  556729.40
3777413.38       17.00541
         556749.40    3777413.38       16.16097                  556769.40
3777413.38       15.64416
         556789.40    3777413.38       15.66045                  556809.40
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         556829.40    3777413.38       16.72690                  556849.40
3777413.38       17.10030
         556869.40    3777413.38       17.30805                  556889.40
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3777413.38       14.89289
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3777413.38       11.51328
         556989.40    3777413.38       10.08763                       557009.40
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         557109.40    3777413.38        6.24525                       557129.40
3777413.38        5.89438
         557149.40    3777413.38        5.61132                       557169.40
3777413.38        5.31829
         557189.40    3777413.38        5.05719                       557209.40
3777413.38        4.81963
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3777413.38        4.35689
         557269.40    3777413.38        4.14654                       557289.40
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3777413.38        3.56454
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3777433.38        7.27874
         556549.40    3777433.38        7.99062                    556569.40
3777433.38        8.80010
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3777433.38       14.12095
         556749.40    3777433.38       13.42359                    556769.40
3777433.38       13.21713
         556789.40    3777433.38       13.38620                    556809.40
3777433.38       13.78781
         556829.40    3777433.38       14.18732                    556849.40
3777433.38       14.43821
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3777433.38       14.45548
         556909.40    3777433.38       13.93553                    556929.40
3777433.38       13.01805
         556949.40    3777433.38       11.82673                    556969.40
3777433.38       10.47632
         556989.40    3777433.38        9.22684                    557009.40
3777433.38        8.24313
         557029.40    3777433.38        7.42808                    557049.40
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         557149.40    3777433.38        5.09344                    557169.40
3777433.38        4.84251
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3777433.38        3.37371
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3777433.38        2.83008
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3777453.38       12.13410
         556669.40    3777453.38       12.65199                      556689.40
3777453.38       12.74819
         556709.40    3777453.38       12.36174                      556729.40
3777453.38       11.83011
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3777453.38       11.37265
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3777453.38       11.91308
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3777453.38       12.46353
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3777453.38        6.23469
         557069.40    3777453.38        5.78479                    557089.40
3777453.38        5.42130
         557109.40    3777453.38        5.12886                    557129.40
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         557149.40    3777453.38        4.64775                    557169.40
3777453.38        4.42332
         557189.40    3777453.38        4.23826                    557209.40
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         557229.40    3777453.38        3.89690                    557249.40
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         556549.40    3777473.38        7.47202                    556569.40
3777473.38        8.20166
         556589.40    3777473.38        8.95658                    556609.40
3777473.38        9.73029
         556629.40    3777473.38       10.44935                    556649.40
3777473.38       10.97663
         556669.40    3777473.38       11.13374                    556689.40
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         556709.40    3777473.38       10.49364                    556729.40
3777473.38       10.08419
         556749.40    3777473.38        9.85407                    556769.40
3777473.38        9.93423
         556789.40    3777473.38       10.14254                    556809.40
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         556829.40    3777473.38       10.65610                    556849.40
3777473.38       10.86754
         556869.40    3777473.38       10.99680                    556889.40
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3777473.38       10.19573
         556949.40    3777473.38        9.54710                    556969.40
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3777473.38        4.98797
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3777473.38        4.46105
         557149.40    3777473.38        4.26511                      557169.40
3777473.38        4.06503
         557189.40    3777473.38        3.89869                      557209.40
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         557229.40    3777473.38        3.60128                      557249.40
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3777473.38        3.21661
         557309.40    3777473.38        3.10133                      557329.40
3777473.38        2.99065
         557349.40    3777473.38        2.87859                      557369.40
3777473.38        2.77194
         557389.40    3777473.38        2.66475                      557409.40
3777473.38        2.56926
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557429.40    3777473.38        2.46956                      557449.40
3777473.38        2.38521
         557469.40    3777473.38        2.29356                      557489.40
3777473.38        2.20366
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        556509.40    3777493.38        6.13467                    556529.40
3777493.38        6.66793
        556549.40    3777493.38        7.24413                    556569.40
3777493.38        7.82298
        556589.40    3777493.38        8.45983                    556609.40
3777493.38        9.08694
        556629.40    3777493.38        9.53610                    556649.40
3777493.38        9.76148
        556669.40    3777493.38        9.73112                    556689.40
3777493.38        9.40477
        556709.40    3777493.38        9.01059                    556729.40
3777493.38        8.75688
        556749.40    3777493.38        8.65410                    556769.40
3777493.38        8.78416
        556789.40    3777493.38        8.96635                    556809.40
3777493.38        9.15642
        556829.40    3777493.38        9.37842                    556849.40
3777493.38        9.53500
        556869.40    3777493.38        9.65203                    556889.40
3777493.38        9.59981
        556909.40    3777493.38        9.44179                    556929.40
3777493.38        9.10473
        556949.40    3777493.38        8.62485                    556969.40
3777493.38        7.99759
        556989.40    3777493.38        7.32172                    557009.40
3777493.38        6.63755
        557029.40    3777493.38        5.98857                    557049.40
3777493.38        5.43345
        557069.40    3777493.38        4.99277                    557089.40
3777493.38        4.63159
        557109.40    3777493.38        4.36231                    557129.40
3777493.38        4.12520
        557149.40    3777493.38        3.93315                    557169.40
3777493.38        3.75940
        557189.40    3777493.38        3.59765                    557209.40
3777493.38        3.46630
        557229.40    3777493.38        3.33429                    557249.40
3777493.38        3.21586
        557269.40    3777493.38        3.10639                    557289.40
3777493.38        2.99972
        557309.40    3777493.38        2.89510                    557329.40
3777493.38        2.79856
        557349.40    3777493.38        2.70617                    557369.40
3777493.38        2.61421
        557389.40    3777493.38        2.52795                    557409.40
3777493.38        2.44288
        557429.40    3777493.38        2.34822                    557449.40
3777493.38        2.27070
        557469.40    3777493.38        2.19735                    557489.40
3777493.38        2.11920
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         556509.40    3777513.38        5.95565                      556529.40
3777513.38        6.43827
         556549.40    3777513.38        6.93844                      556569.40
3777513.38        7.53316
         556589.40    3777513.38        8.03871                      556609.40
3777513.38        8.41924
         556629.40    3777513.38        8.70651                      556649.40
3777513.38        8.71570
         556669.40    3777513.38        8.50431                      556689.40
3777513.38        8.13992
         556709.40    3777513.38        7.84251                      556729.40
3777513.38        7.71023
         556749.40    3777513.38        7.70476                      556769.40
3777513.38        7.85421
         556789.40    3777513.38        8.01304                      556809.40
3777513.38        8.14542
         556829.40    3777513.38        8.31498                      556849.40
3777513.38        8.44155
         556869.40    3777513.38        8.54322                      556889.40
3777513.38        8.53602
         556909.40    3777513.38        8.39716                      556929.40
3777513.38        8.17209
         556949.40    3777513.38        7.81666                      556969.40
3777513.38        7.33174
         556989.40    3777513.38        6.77773                      557009.40
3777513.38        6.20934
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                    INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557029.40    3777513.38        5.63667                      557049.40
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```
3777513.38        5.13015
         557069.40    3777513.38        4.69273                    557089.40
3777513.38        4.33996
         557109.40    3777513.38        4.06378                    557129.40
3777513.38        3.83843
         557149.40    3777513.38        3.65510                    557169.40
3777513.38        3.49291
         557189.40    3777513.38        3.34259                    557209.40
3777513.38        3.22243
         557229.40    3777513.38        3.09783                    557249.40
3777513.38        2.99638
         557269.40    3777513.38        2.89419                    557289.40
3777513.38        2.79741
         557309.40    3777513.38        2.71057                    557329.40
3777513.38        2.62611
         557349.40    3777513.38        2.54291                    557369.40
3777513.38        2.46131
         557389.40    3777513.38        2.38637                    557409.40
3777513.38        2.31425
         557429.40    3777513.38        2.23656                    557449.40
3777513.38        2.16390
         557469.40    3777513.38        2.09536                    557489.40
3777513.38        2.02924
         556509.40    3777533.38        5.77214                    556529.40
3777533.38        6.22194
         556549.40    3777533.38        6.67080                    556569.40
3777533.38        7.10551
         556589.40    3777533.38        7.46931                    556609.40
3777533.38        7.71771
         556629.40    3777533.38        7.79519                    556649.40
3777533.38        7.67564
         556669.40    3777533.38        7.38648                    556689.40
3777533.38        7.09932
         556709.40    3777533.38        6.91831                    556729.40
3777533.38        6.86907
         556749.40    3777533.38        6.92516                    556769.40
3777533.38        7.05723
         556789.40    3777533.38        7.20430                    556809.40
3777533.38        7.30824
         556829.40    3777533.38        7.45165                    556849.40
3777533.38        7.53615
         556869.40    3777533.38        7.61466                    556889.40
3777533.38        7.63255
         556909.40    3777533.38        7.54310                    556929.40
3777533.38        7.36458
         556949.40    3777533.38        7.09192                    556969.40
3777533.38        6.71214
         556989.40    3777533.38        6.27267                    557009.40
3777533.38        5.80108
         557029.40    3777533.38        5.30922                    557049.40
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3777533.38        4.85047
         557069.40    3777533.38        4.44279                       557089.40
3777533.38        4.09840
         557109.40    3777533.38        3.82062                       557129.40
3777533.38        3.60178
         557149.40    3777533.38        3.42208                       557169.40
3777533.38        3.26015
         557189.40    3777533.38        3.12065                       557209.40
3777533.38        3.00856
         557229.40    3777533.38        2.88886                       557249.40
3777533.38        2.79602
         557269.40    3777533.38        2.70207                       557289.40
3777533.38        2.61754
         557309.40    3777533.38        2.53817                       557329.40
3777533.38        2.46277
         557349.40    3777533.38        2.39119                       557369.40
3777533.38        2.31937
         557389.40    3777533.38        2.24713                       557409.40
3777533.38        2.18626
         557429.40    3777533.38        2.12180                       557449.40
3777533.38        2.06080
         557469.40    3777533.38        1.99605                       557489.40
3777533.38        1.93455
         556509.40    3777553.38        5.59453                       556529.40
3777553.38        5.98608
         556549.40    3777553.38        6.34980                       556569.40
3777553.38        6.68818
         556589.40    3777553.38        6.93378                       556609.40
3777553.38        7.01681
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
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 - - -
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         556692.35    3776929.14        4.44894                      556712.35
3776929.14        4.73423
         556732.35    3776929.14        5.02061                      556752.35
3776929.14        5.35876
         556772.35    3776929.14        5.72862                      556792.35
3776929.14        6.20012
         556812.35    3776929.14        6.83429                      556832.35
3776929.14        7.59427
         556852.35    3776929.14        8.68635                      556672.35
3776949.14        4.51805
         556692.35    3776949.14        4.86145                      556712.35
3776949.14        5.20577
         556732.35    3776949.14        5.55059                      556752.35
3776949.14        5.91649
         556772.35    3776949.14        6.36630                      556792.35
3776949.14        6.95447
         556812.35    3776949.14        7.69381                      556832.35
3776949.14        8.60612
         556852.35    3776949.14        9.94215                      556672.35
3776969.14        4.89767
         556692.35    3776969.14        5.31945                      556712.35
3776969.14        5.75383
         556732.35    3776969.14        6.18634                      556752.35
3776969.14        6.62912
         556772.35    3776969.14        7.14933                      556792.35
3776969.14        7.83665
         556812.35    3776969.14        8.70851                      556832.35
3776969.14        9.85508
         556852.35    3776969.14       11.51253                      556672.35
3776989.14        5.31281
         556692.35    3776989.14        5.82504                      556712.35
3776989.14        6.37389
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556732.35	3776989.14	6.92713	556752.35	3776989.14	7.48434
556772.35	3776989.14	8.10273	556792.35	3776989.14	8.91551
556812.35	3776989.14	9.95296	556832.35	3776989.14	11.38240
556852.35	3776989.14	13.50947	556672.35	3777009.14	5.77018
556692.35	3777009.14	6.38336	556712.35	3777009.14	7.07273
556732.35	3777009.14	7.78877	556752.35	3777009.14	8.51330
556772.35	3777009.14	9.27959	556792.35	3777009.14	10.24320
556812.35	3777009.14	11.50105	556832.35	3777009.14	13.29241
556852.35	3777009.14	16.09615	556672.35	3777029.14	6.31546
556692.35	3777029.14	7.01507	556712.35	3777029.14	7.86510
556732.35	3777029.14	8.78697	556752.35	3777029.14	9.75334
556772.35	3777029.14	10.74805	556792.35	3777029.14	11.91701
556812.35	3777029.14	13.46479	556832.35	3777029.14	15.78963
556852.35	3777029.14	19.51971	556672.35	3777049.14	7.01079
556692.35	3777049.14	7.78209	556712.35	3777049.14	8.77848
556732.35	3777049.14	9.94827	556752.35	3777049.14	11.25233
556772.35	3777049.14	12.60637	556792.35	3777049.14	14.07627
556812.35	3777049.14	16.05066	556832.35	3777049.14	19.10205
556852.35	3777049.14	24.20851	556927.54	3776959.53	21.11148
556947.54	3776959.53	22.50018	556967.54	3776959.53	21.83276
556987.54	3776959.53	19.40513	557007.54	3776959.53	16.07700
557027.54	3776959.53	12.81320	557047.54	3776959.53	10.19050
557067.54	3776959.53	8.33945	557087.54		

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3776959.53        7.12073
         556927.54    3776979.53       25.09079                       556947.54
3776979.53       25.81538
         556967.54    3776979.53       23.85835                       556987.54
3776979.53       20.11346
         557007.54    3776979.53       15.96769                       557027.54
3776979.53       12.47687
         557047.54    3776979.53        9.98707                       557067.54
3776979.53        8.36962
         557087.54    3776979.53        7.33856                       556927.54
3776999.53       29.92758
         556947.54    3776999.53       29.29112                       556967.54
3776999.53       25.49873
         556987.54    3776999.53       20.33587                       557007.54
3776999.53       15.62600
         557027.54    3776999.53       12.19700                       557047.54
3776999.53        9.99592
         557067.54    3776999.53        8.63214                       557087.54
3776999.53        7.74030
         556927.54    3777019.53       35.61788                       556947.54
3777019.53       32.66585
         556967.54    3777019.53       26.50481                       556987.54
3777019.53       20.10513
         557007.54    3777019.53       15.25746                       557027.54
3777019.53       12.17155
         557047.54    3777019.53       10.31936                       557067.54
3777019.53        9.14698
         557087.54    3777019.53        8.30555                       556927.54
3777039.53       41.94421
         556947.54    3777039.53       35.38361                       556967.54
3777039.53       26.71680
         556987.54    3777039.53       19.66286                       557007.54
3777039.53       15.17862
         557027.54    3777039.53       12.58076                       557047.54
3777039.53       10.99800
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***
```

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557067.54	3777039.53	9.88507	557087.54	3777039.53	8.98955
557047.54	3777059.53	11.99055	557067.54	3777059.53	10.77873
557087.54	3777059.53	9.73622	556919.02	3777174.93	100.12529
556939.02	3777174.93	69.12806	556919.02	3777194.93	123.00923
556939.02	3777194.93	79.60602	556919.02	3777214.93	130.77013
556939.02	3777214.93	85.41465	556919.02	3777234.93	113.88979
556939.02	3777234.93	79.61493	556919.02	3777254.93	80.23515
556939.02	3777254.93	62.99656	557023.57	3777171.57	22.87707
557043.57	3777171.57	18.99525	557063.57	3777171.57	16.04421
557083.57	3777171.57	13.75611	557023.57	3777191.57	24.43614
557043.57	3777191.57	20.14253	557063.57	3777191.57	16.89914
557083.57	3777191.57	14.43798	557023.57	3777211.57	25.85501
557043.57	3777211.57	21.25444	557063.57	3777211.57	17.80266
557083.57	3777211.57	15.04260	557023.57	3777231.57	26.48120
557043.57	3777231.57	21.85127	557063.57	3777231.57	18.35187
557083.57	3777231.57	15.37321	557023.57	3777251.57	25.63878
557043.57	3777251.57	21.45314	557063.57	3777251.57	18.22049
557083.57	3777251.57	15.21539	556249.05	3776972.85	1.10937
556269.05	3776972.85	1.15189	556229.05	3776992.85	1.11424
556249.05	3776992.85	1.14365	556269.05	3776992.85	1.19644
556289.05	3776992.85	1.24525	556309.05	3776992.85	1.30217

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         556329.05    3776992.85        1.34723                       556209.05
3777012.85        1.13049
         556229.05    3777012.85        1.14403                       556249.05
3777012.85        1.18854
         556269.05    3777012.85        1.24363                       556289.05
3777012.85        1.30328
         556309.05    3777012.85        1.35593                       556329.05
3777012.85        1.42687
         556209.05    3777032.85        1.15091                       556229.05
3777032.85        1.19068
         556249.05    3777032.85        1.24037                       556269.05
3777032.85        1.29578
         556289.05    3777032.85        1.36464                       556309.05
3777032.85        1.42758
         556209.05    3777052.85        1.20147                       556229.05
3777052.85        1.24072
         556249.05    3777052.85        1.30304                       556269.05
3777052.85        1.36159
         556289.05    3777052.85        1.42801                       556309.05
3777052.85        1.50152
         556249.05    3777072.85        1.36324                       556269.05
3777072.85        1.43360
         556289.05    3777072.85        1.50336                       556269.05
3777092.85        1.51234
         556441.69    3776927.49        1.35429                       556461.69
3776927.49        1.38316
         556481.69    3776927.49        1.38260                       556421.69
3776947.49        1.47484
         556441.69    3776947.49        1.49426                       556461.69
3776947.49        1.54196
         556481.69    3776947.49        1.55445                       556401.69
3776967.49        1.51322
         556421.69    3776967.49        1.58793                       556441.69
3776967.49        1.62862
         556461.69    3776967.49        1.67990                       556481.69
3776967.49        1.74698
         556401.69    3776987.49        1.58240                       556421.69
3776987.49        1.65997
↑ *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       13:24:37

                                PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                INCLUDING SOURCE(S):     STCK1       ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556441.69	3776987.49	1.75604	556461.69	3776987.49	1.84111
556481.69	3776987.49	1.94084	556421.69	3777007.49	1.72982
556441.69	3777007.49	1.82533	556461.69	3777007.49	1.94265
556481.69	3777007.49	2.08906	556441.69	3777027.49	1.90895
556461.69	3777027.49	2.02092	556481.69	3777027.49	2.19566
556251.24	3777154.95	1.99459	556261.28	3777141.20	1.99069
556264.98	3777168.16	2.12912	556279.25	3777151.77	2.14078
556202.60	3777113.45	1.61971	556220.05	3777109.75	1.67656
556187.53	3777090.19	1.49666	556164.27	3777121.38	1.50805
557510.26	3776508.23	1.62389	557530.26	3776508.23	1.58574
557550.26	3776508.23	1.54697	557570.26	3776508.23	1.50780
557590.26	3776508.23	1.46902	557610.26	3776508.23	1.43094
557630.26	3776508.23	1.39235	557650.26	3776508.23	1.35452
557670.26	3776508.23	1.31653	557690.26	3776508.23	1.27902
557510.26	3776528.23	1.66221	557530.26	3776528.23	1.62040
557550.26	3776528.23	1.57866	557570.26	3776528.23	1.53582
557590.26	3776528.23	1.49449	557610.26	3776528.23	1.45353
557630.26	3776528.23	1.41327	557650.26	3776528.23	1.37384
557670.26	3776528.23	1.33389	557690.26	3776528.23	1.29567
557510.26	3776548.23	1.69818	557530.26		

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3776548.23        1.65420
         557550.26    3776548.23        1.60711                        557570.26
3776548.23        1.56124
         557590.26    3776548.23        1.51783                        557610.26
3776548.23        1.47447
         557630.26    3776548.23        1.43231                        557650.26
3776548.23        1.39157
         557670.26    3776548.23        1.35086                        557690.26
3776548.23        1.31204
         557510.26    3776568.23        1.73292                        557530.26
3776568.23        1.68507
         557550.26    3776568.23        1.63553                        557570.26
3776568.23        1.58616
         557590.26    3776568.23        1.53985                        557610.26
3776568.23        1.49442
         557630.26    3776568.23        1.45061                        557650.26
3776568.23        1.40903
         557670.26    3776568.23        1.36739                        557690.26
3776568.23        1.32737
         557510.26    3776588.23        1.76578                        557530.26
3776588.23        1.71517
         557550.26    3776588.23        1.66260                        557570.26
3776588.23        1.60982
         557590.26    3776588.23        1.56012                        557610.26
3776588.23        1.51302
         557630.26    3776588.23        1.46904                        557650.26
3776588.23        1.42612
         557670.26    3776588.23        1.38429                        557690.26
3776588.23        1.34416
         557510.26    3776608.23        1.79673                        557530.26
3776608.23        1.74314
         557550.26    3776608.23        1.68736                        557570.26
3776608.23        1.63294
         557590.26    3776608.23        1.58029                        557610.26
3776608.23        1.53175
         557630.26    3776608.23        1.48675                        557650.26
3776608.23        1.44274
         557670.26    3776608.23        1.39997                        557690.26
3776608.23        1.35897
         557510.26    3776628.23        1.82630                        557530.26
3776628.23        1.76893
 *** AERMOD - VERSION 24142  ***   ***
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 *** AERMET - VERSION  22112 ***   ***
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                                  PAGE  28
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING_ ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557550.26	3776628.23	1.70975	557570.26	3776628.23	1.65740
557590.26	3776628.23	1.60014	557610.26	3776628.23	1.55019
557630.26	3776628.23	1.50333	557650.26	3776628.23	1.45948
557670.26	3776628.23	1.41611	557690.26	3776628.23	1.37491
557510.26	3776648.23	1.85299	557530.26	3776648.23	1.79094
557550.26	3776648.23	1.72958	557570.26	3776648.23	1.67037
557590.26	3776648.23	1.61795	557610.26	3776648.23	1.56628
557630.26	3776648.23	1.51936	557650.26	3776648.23	1.47518
557670.26	3776648.23	1.43084	557690.26	3776648.23	1.38923
557510.26	3776668.23	1.87517	557530.26	3776668.23	1.81152
557550.26	3776668.23	1.74877	557570.26	3776668.23	1.68914
557590.26	3776668.23	1.63772	557610.26	3776668.23	1.58205
557630.26	3776668.23	1.53385	557650.26	3776668.23	1.48974
557670.26	3776668.23	1.44567	557690.26	3776668.23	1.40321
557510.26	3776688.23	1.89945	557530.26	3776688.23	1.83321
557550.26	3776688.23	1.76752	557570.26	3776688.23	1.70667
557590.26	3776688.23	1.65088	557610.26	3776688.23	1.59638
557630.26	3776688.23	1.54763	557650.26	3776688.23	1.50330

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         557670.26    3776688.23        1.45771                        557690.26
3776688.23        1.41278
         556172.49    3776517.81        0.32052                        556192.49
3776517.81        0.33445
         556212.49    3776517.81        0.33932                        556232.49
3776517.81        0.34728
         556252.49    3776517.81        0.35424                        556272.49
3776517.81        0.36490
         556292.49    3776517.81        0.37354                        556312.49
3776517.81        0.37991
         556332.49    3776517.81        0.39051                        556352.49
3776517.81        0.39653
         556372.49    3776517.81        0.39694                        556392.49
3776517.81        0.41203
         556412.49    3776517.81        0.42283                        556432.49
3776517.81        0.43253
         556452.49    3776517.81        0.44091                        556472.49
3776517.81        0.45958
         556492.49    3776517.81        0.47454                        556172.49
3776537.81        0.32596
         556192.49    3776537.81        0.33656                        556212.49
3776537.81        0.34816
         556232.49    3776537.81        0.35710                        556252.49
3776537.81        0.36546
         556272.49    3776537.81        0.37148                        556292.49
3776537.81        0.38592
         556312.49    3776537.81        0.39516                        556332.49
3776537.81        0.40662
         556352.49    3776537.81        0.41388                        556372.49
3776537.81        0.41655
         556392.49    3776537.81        0.41948                        556412.49
3776537.81        0.43515
         556432.49    3776537.81        0.44858                        556452.49
3776537.81        0.45673
         556472.49    3776537.81        0.47745                        556492.49
3776537.81        0.49617
         556332.49    3776557.81        0.42661                        556352.49
3776557.81        0.42846
         556372.49    3776557.81        0.43824                        556392.49
3776557.81        0.44274
         556412.49    3776557.81        0.45761                        556432.49
3776557.81        0.46789
         556452.49    3776557.81        0.47609                        556472.49
3776557.81        0.49476
 *** AERMOD - VERSION 24142  ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING_ ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556492.49	3776557.81	0.51772	556332.49	3776577.81	0.44042
556352.49	3776577.81	0.45179	556372.49	3776577.81	0.46000
556392.49	3776577.81	0.47023	556412.49	3776577.81	0.48230
556432.49	3776577.81	0.48901	556452.49	3776577.81	0.50107
556472.49	3776577.81	0.51986	556492.49	3776577.81	0.54037
556332.49	3776597.81	0.46250	556352.49	3776597.81	0.47340
556372.49	3776597.81	0.48216	556392.49	3776597.81	0.48616
556412.49	3776597.81	0.50408	556432.49	3776597.81	0.51165
556452.49	3776597.81	0.51790	556472.49	3776597.81	0.53513
556492.49	3776597.81	0.56362	556252.49	3776617.81	0.41769
556272.49	3776617.81	0.43003	556292.49	3776617.81	0.44592
556312.49	3776617.81	0.46452	556332.49	3776617.81	0.47344
556352.49	3776617.81	0.49492	556372.49	3776617.81	0.51075
556392.49	3776617.81	0.51787	556412.49	3776617.81	0.53234
556432.49	3776617.81	0.53749	556452.49	3776617.81	0.55213
556472.49	3776617.81	0.55717	556492.49	3776617.81	0.58747
556252.49	3776637.81	0.43012	556272.49		

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3776637.81        0.44999
         556292.49    3776637.81        0.46041                    556312.49
3776637.81        0.47511
         556332.49    3776637.81        0.49829                    556352.49
3776637.81        0.51386
         556372.49    3776637.81        0.53499                    556392.49
3776637.81        0.54269
         556412.49    3776637.81        0.55573                    556432.49
3776637.81        0.56637
         556452.49    3776637.81        0.57551                    556472.49
3776637.81        0.59063
         556492.49    3776637.81        0.61275                    556252.49
3776657.81        0.44893
         556272.49    3776657.81        0.46526                    556292.49
3776657.81        0.48296
         556312.49    3776657.81        0.48715                    556332.49
3776657.81        0.51526
         556352.49    3776657.81        0.53807                    556372.49
3776657.81        0.55969
         556392.49    3776657.81        0.56594                    556412.49
3776657.81        0.57904
         556432.49    3776657.81        0.59105                    556452.49
3776657.81        0.60422
         556472.49    3776657.81        0.61840                    556492.49
3776657.81        0.64139
         556252.49    3776677.81        0.47169                    556272.49
3776677.81        0.47542
         556292.49    3776677.81        0.49074                    556312.49
3776677.81        0.50979
         556332.49    3776677.81        0.53241                    556352.49
3776677.81        0.55844
         556372.49    3776677.81        0.57942                    556392.49
3776677.81        0.59221
         556412.49    3776677.81        0.61326                    556432.49
3776677.81        0.61946
         556452.49    3776677.81        0.63207                    556472.49
3776677.81        0.65140
         556492.49    3776677.81        0.67391                    556252.49
3776697.81        0.50015
         556272.49    3776697.81        0.50094                    556372.49
3776697.81        0.60062
         556392.49    3776697.81        0.61070                    556412.49
3776697.81        0.63558
         556432.49    3776697.81        0.64938                    556452.49
3776697.81        0.66062
         556472.49    3776697.81        0.68219                    556492.49
3776697.81        0.70841
 *** AERMOD - VERSION 24142  ***   ***
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                             *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                 INCLUDING SOURCE(S):   STCK1   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

VALUES FOR SOURCE GROUP: FUELING ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL3
, VOL5   , VOL7   , VOL10   ,
                VOL11   ,

                                         *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         556521.71   3777341.57   7.72977   556539.90
3777344.94   8.41032
         556591.78   3777345.39   11.15793   556630.62
3777349.66   14.05325
         556684.29   3777349.43   20.16150   556905.58
3777351.19   22.06336
         556920.93   3777350.82   19.97308   556942.87
3777350.09   16.82521
         556996.26   3777348.26   11.69985   557096.81
3777357.77   7.54878
         557115.83   3777363.62   6.89269   557129.36
3777361.43   6.70264
         557230.65   3777363.99   4.98003   556466.22
3776816.07   1.04955
         556407.87   3776826.19   0.98090   556381.07
3776807.14   0.89787
         556404.29   3776771.52   0.82044   556465.21
3776739.51   0.88569
         556396.10   3776739.93   0.76047   556323.99
3777265.43   3.27323
         556330.60   3777233.99   3.14810   556321.08
3777200.43   2.83117
         556275.11   3777267.81   2.77266   556278.28
3777233.46   2.62941
         556509.40   3777373.38   6.99322   556529.40
3777373.38   7.65901
         556549.40   3777373.38   8.44218   556569.40
3777373.38   9.34486
         556589.40   3777373.38   10.42274   556609.40
3777373.38   11.64621
         556629.40   3777373.38   13.11240   556649.40
3777373.38   14.80818
         556669.40   3777373.38   16.76079   556689.40
3777373.38   18.64927
         556709.40   3777373.38   19.79299   556729.40

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3777373.38       19.70907
         556749.40    3777373.38       18.85093                       556769.40
3777373.38       18.12610
         556789.40    3777373.38       18.19202                       556809.40
3777373.38       18.76020
         556829.40    3777373.38       19.35580                       556849.40
3777373.38       19.77283
         556869.40    3777373.38       19.86734                       556889.40
3777373.38       19.27230
         556909.40    3777373.38       17.98892                       556929.40
3777373.38       16.10732
         556949.40    3777373.38       13.98022                       556969.40
3777373.38       12.02196
         556989.40    3777373.38       10.48406                       557009.40
3777373.38        9.38439
         557029.40    3777373.38        8.61372                       557049.40
3777373.38        8.00725
         557069.40    3777373.38        7.48216                       557089.40
3777373.38        7.03491
         557109.40    3777373.38        6.63711                       557129.40
3777373.38        6.27895
         557149.40    3777373.38        5.94935                       557169.40
3777373.38        5.64584
         557189.40    3777373.38        5.36878                       557209.40
3777373.38        5.10011
         557229.40    3777373.38        4.83293                       557249.40
3777373.38        4.57363
         557269.40    3777373.38        4.32389                       557289.40
3777373.38        4.09760
         557309.40    3777373.38        3.88701                       557329.40
3777373.38        3.67564
         557349.40    3777373.38        3.49053                       557369.40
3777373.38        3.31049
         557389.40    3777373.38        3.14272                       557409.40
3777373.38        2.98633
         557429.40    3777373.38        2.83479                       557449.40
3777373.38        2.70071
         557469.40    3777373.38        2.57126                       557489.40
3777373.38        2.44089
         556509.40    3777393.38        6.79945                       556529.40
3777393.38        7.43232
         556549.40    3777393.38        8.16627                       556569.40
3777393.38        8.99740
         556589.40    3777393.38       10.00008                       556609.40
3777393.38       11.13891
 *** AERMOD - VERSION 24142  ***   ***
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08/25/25
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FUELING ***
INCLUDING SOURCE(S): VOL1 , VOL3 , VOL5 , VOL7 , VOL10 , VOL11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556629.40	3777393.38	12.50919	556649.40	3777393.38	13.96922
556669.40	3777393.38	15.41138	556689.40	3777393.38	16.44352
556709.40	3777393.38	16.70442	556729.40	3777393.38	16.08781
556749.40	3777393.38	15.36559	556769.40	3777393.38	15.07361
556789.40	3777393.38	15.28916	556809.40	3777393.38	15.73619
556829.40	3777393.38	16.17032	556849.40	3777393.38	16.43694
556869.40	3777393.38	16.50977	556889.40	3777393.38	16.25310
556909.40	3777393.38	15.40983	556929.40	3777393.38	14.17411
556949.40	3777393.38	12.54335	556969.40	3777393.38	10.93947
556989.40	3777393.38	9.55446	557009.40	3777393.38	8.50138
557029.40	3777393.38	7.72613	557049.40	3777393.38	7.15549
557069.40	3777393.38	6.69829	557089.40	3777393.38	6.30861
557109.40	3777393.38	5.97045	557129.40	3777393.38	5.64712
557149.40	3777393.38	5.37934	557169.40	3777393.38	5.11963
557189.40	3777393.38	4.88198	557209.40	3777393.38	4.67266

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        557229.40    3777393.38        4.46738                    557249.40
3777393.38        4.25436
        557269.40    3777393.38        4.05489                    557289.40
3777393.38        3.85992
        557309.40    3777393.38        3.66420                    557329.40
3777393.38        3.49703
        557349.40    3777393.38        3.33028                    557369.40
3777393.38        3.17375
        557389.40    3777393.38        3.02479                    557409.40
3777393.38        2.87830
        557429.40    3777393.38        2.74307                    557449.40
3777393.38        2.61936
        557469.40    3777393.38        2.49640                    557489.40
3777393.38        2.37524
        556509.40    3777413.38        6.60887                    556529.40
3777413.38        7.21564
        556549.40    3777413.38        7.91395                    556569.40
3777413.38        8.71053
        556589.40    3777413.38        9.62809                    556609.40
3777413.38       10.68924
        556629.40    3777413.38       11.89866                    556649.40
3777413.38       13.04385
        556669.40    3777413.38       13.96756                    556689.40
3777413.38       14.31389
        556709.40    3777413.38       13.98927                    556729.40
3777413.38       13.29533
        556749.40    3777413.38       12.80293                    556769.40
3777413.38       12.84065
        556789.40    3777413.38       13.09182                    556809.40
3777413.38       13.44764
        556829.40    3777413.38       13.74769                    556849.40
3777413.38       13.97742
        556869.40    3777413.38       14.10616                    556889.40
3777413.38       13.89595
        556909.40    3777413.38       13.36828                    556929.40
3777413.38       12.57098
        556949.40    3777413.38       11.32945                    556969.40
3777413.38       10.01915
        556989.40    3777413.38        8.78279                    557009.40
3777413.38        7.78869
        557029.40    3777413.38        7.02614                    557049.40
3777413.38        6.47743
        557069.40    3777413.38        6.05529                    557089.40
3777413.38        5.70461
        557109.40    3777413.38        5.40664                    557129.40
3777413.38        5.11496
        557149.40    3777413.38        4.88571                    557169.40
3777413.38        4.65672
        557189.40    3777413.38        4.45869                    557209.40
3777413.38        4.28214
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL3
, VOL5   , VOL7   , VOL10   ,
                VOL11   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         557229.40   3777413.38   4.10414   557249.40
3777413.38   3.93511
         557269.40   3777413.38   3.77386   557289.40
3777413.38   3.61548
         557309.40   3777413.38   3.46020   557329.40
3777413.38   3.30532
         557349.40   3777413.38   3.16925   557369.40
3777413.38   3.02380
         557389.40   3777413.38   2.89649   557409.40
3777413.38   2.77209
         557429.40   3777413.38   2.64131   557449.40
3777413.38   2.52746
         557469.40   3777413.38   2.42206   557489.40
3777413.38   2.31291
         556509.40   3777433.38   6.42505   556529.40
3777433.38   6.99008
         556549.40   3777433.38   7.63162   556569.40
3777433.38   8.36459
         556589.40   3777433.38   9.24957   556609.40
3777433.38   10.22460
         556629.40   3777433.38   11.21633   556649.40
3777433.38   12.02833
         556669.40   3777433.38   12.42754   556689.40
3777433.38   12.31927
         556709.40   3777433.38   11.75291   556729.40

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3777433.38       11.21769
         556749.40    3777433.38       10.97663                    556769.40
3777433.38       11.13678
         556789.40    3777433.38       11.36449                    556809.40
3777433.38       11.60290
         556829.40    3777433.38       11.83959                    556849.40
3777433.38       12.00627
         556869.40    3777433.38       12.12289                    556889.40
3777433.38       12.00671
         556909.40    3777433.38       11.67324                    556929.40
3777433.38       11.08398
         556949.40    3777433.38       10.25353                    556969.40
3777433.38        9.19901
         556989.40    3777433.38        8.12955                    557009.40
3777433.38        7.23694
         557029.40    3777433.38        6.49554                    557049.40
3777433.38        5.95208
         557069.40    3777433.38        5.53387                    557089.40
3777433.38        5.20294
         557109.40    3777433.38        4.93039                    557129.40
3777433.38        4.67412
         557149.40    3777433.38        4.46157                    557169.40
3777433.38        4.25241
         557189.40    3777433.38        4.08035                    557209.40
3777433.38        3.92477
         557229.40    3777433.38        3.76644                    557249.40
3777433.38        3.63432
         557269.40    3777433.38        3.49915                    557289.40
3777433.38        3.36316
         557309.40    3777433.38        3.24388                    557329.40
3777433.38        3.11360
         557349.40    3777433.38        2.98002                    557369.40
3777433.38        2.86390
         557389.40    3777433.38        2.76445                    557409.40
3777433.38        2.65739
         557429.40    3777433.38        2.53749                    557449.40
3777433.38        2.43535
         557469.40    3777433.38        2.33607                    557489.40
3777433.38        2.24100
         556509.40    3777453.38        6.23029                    556529.40
3777453.38        6.76250
         556549.40    3777453.38        7.38380                    556569.40
3777453.38        8.07760
         556589.40    3777453.38        8.88232                    556609.40
3777453.38        9.69643
         556629.40    3777453.38       10.44967                    556649.40
3777453.38       10.88656
         556669.40    3777453.38       10.87950                    556689.40
3777453.38       10.49439
         556709.40    3777453.38        9.94888                    556729.40
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3777453.38        9.62840
         556749.40    3777453.38        9.60295                       556769.40
3777453.38        9.76908
         556789.40    3777453.38        9.95710                       556809.40
3777453.38       10.13616
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         556829.40    3777453.38       10.35201                      556849.40
3777453.38       10.50655
         556869.40    3777453.38       10.61599                      556889.40
3777453.38       10.49005
         556909.40    3777453.38       10.26712                      556929.40
3777453.38        9.81117
         556949.40    3777453.38        9.22464                      556969.40
3777453.38        8.44617
         556989.40    3777453.38        7.57029                      557009.40
3777453.38        6.73345
         557029.40    3777453.38        6.03494                      557049.40
3777453.38        5.49537
         557069.40    3777453.38        5.09700                      557089.40
3777453.38        4.78319
         557109.40    3777453.38        4.53002                      557129.40
3777453.38        4.30089
         557149.40    3777453.38        4.10537                      557169.40
3777453.38        3.90902
         557189.40    3777453.38        3.74961                      557209.40
3777453.38        3.61112
```

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        557229.40    3777453.38        3.47069                    557249.40
3777453.38        3.35643
        557269.40    3777453.38        3.23888                    557289.40
3777453.38        3.12651
        557309.40    3777453.38        3.02485                    557329.40
3777453.38        2.92002
        557349.40    3777453.38        2.81909                    557369.40
3777453.38        2.70925
        557389.40    3777453.38        2.61380                    557409.40
3777453.38        2.52890
        557429.40    3777453.38        2.43475                    557449.40
3777453.38        2.34323
        557469.40    3777453.38        2.25211                    557489.40
3777453.38        2.16168
        556509.40    3777473.38        6.03802                    556529.40
3777473.38        6.52967
        556549.40    3777473.38        7.11195                    556569.40
3777473.38        7.79171
        556589.40    3777473.38        8.46997                    556609.40
3777473.38        9.09298
        556629.40    3777473.38        9.53989                    556649.40
3777473.38        9.67079
        556669.40    3777473.38        9.41498                    556689.40
3777473.38        8.95174
        556709.40    3777473.38        8.56266                    556729.40
3777473.38        8.42353
        556749.40    3777473.38        8.48044                    556769.40
3777473.38        8.65124
        556789.40    3777473.38        8.79054                    556809.40
3777473.38        8.93772
        556829.40    3777473.38        9.10669                    556849.40
3777473.38        9.27052
        556869.40    3777473.38        9.36654                    556889.40
3777473.38        9.26863
        556909.40    3777473.38        9.10908                    556929.40
3777473.38        8.80429
        556949.40    3777473.38        8.36580                    556969.40
3777473.38        7.77250
        556989.40    3777473.38        7.07102                    557009.40
3777473.38        6.35376
        557029.40    3777473.38        5.69213                    557049.40
3777473.38        5.14997
        557069.40    3777473.38        4.74628                    557089.40
3777473.38        4.43052
        557109.40    3777473.38        4.18949                    557129.40
3777473.38        3.97510
        557149.40    3777473.38        3.80022                    557169.40
3777473.38        3.62111
        557189.40    3777473.38        3.47129                    557209.40
3777473.38        3.33849
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         557229.40    3777473.38        3.21283                      557249.40
3777473.38        3.10812
         557269.40    3777473.38        3.00220                      557289.40
3777473.38        2.90500
         557309.40    3777473.38        2.81670                      557329.40
3777473.38        2.73212
         557349.40    3777473.38        2.64525                      557369.40
3777473.38        2.56148
         557389.40    3777473.38        2.47528                      557409.40
3777473.38        2.39754
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557429.40    3777473.38        2.31406                      557449.40
3777473.38        2.24279
         557469.40    3777473.38        2.16325                      557489.40
3777473.38        2.08391
         556509.40    3777493.38        5.85782                      556529.40
3777493.38        6.35818
         556549.40    3777493.38        6.90182                      556569.40
3777493.38        7.43401
         556589.40    3777493.38        7.97129                      556609.40
3777493.38        8.40970
         556629.40    3777493.38        8.57645                      556649.40
3777493.38        8.46137
         556669.40    3777493.38        8.14169                      556689.40
3777493.38        7.73970
         556709.40    3777493.38        7.49732                      556729.40
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3777493.38        7.49109
         556749.40    3777493.38        7.57800                    556769.40
3777493.38        7.72452
         556789.40    3777493.38        7.82816                    556809.40
3777493.38        7.93195
         556829.40    3777493.38        8.09250                    556849.40
3777493.38        8.22080
         556869.40    3777493.38        8.31161                    556889.40
3777493.38        8.26071
         556909.40    3777493.38        8.14027                    556929.40
3777493.38        7.91103
         556949.40    3777493.38        7.58934                    556969.40
3777493.38        7.13439
         556989.40    3777493.38        6.59432                    557009.40
3777493.38        5.99609
         557029.40    3777493.38        5.39566                    557049.40
3777493.38        4.87167
         557069.40    3777493.38        4.46065                    557089.40
3777493.38        4.13667
         557109.40    3777493.38        3.90229                    557129.40
3777493.38        3.69882
         557149.40    3777493.38        3.53093                    557169.40
3777493.38        3.37526
         557189.40    3777493.38        3.22812                    557209.40
3777493.38        3.10704
         557229.40    3777493.38        2.98825                    557249.40
3777493.38        2.88444
         557269.40    3777493.38        2.79185                    557289.40
3777493.38        2.70479
         557309.40    3777493.38        2.62170                    557329.40
3777493.38        2.54670
         557349.40    3777493.38        2.47561                    557369.40
3777493.38        2.40446
         557389.40    3777493.38        2.33734                    557409.40
3777493.38        2.26995
         557429.40    3777493.38        2.19239                    557449.40
3777493.38        2.12867
         557469.40    3777493.38        2.06727                    557489.40
3777493.38        2.00011
         556509.40    3777513.38        5.68952                    556529.40
3777513.38        6.14947
         556549.40    3777513.38        6.61726                    556569.40
3777513.38        7.13815
         556589.40    3777513.38        7.51490                    556609.40
3777513.38        7.69305
         556629.40    3777513.38        7.70098                    556649.40
3777513.38        7.44694
         556669.40    3777513.38        7.08932                    556689.40
3777513.38        6.77779
         556709.40    3777513.38        6.66742                    556729.40
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3777513.38        6.73139
         556749.40    3777513.38        6.83104                        556769.40
3777513.38        6.95488
         556789.40    3777513.38        7.03765                        556809.40
3777513.38        7.10800
         556829.40    3777513.38        7.23690                        556849.40
3777513.38        7.34592
         556869.40    3777513.38        7.42776                        556889.40
3777513.38        7.41213
         556909.40    3777513.38        7.29873                        556929.40
3777513.38        7.14217
         556949.40    3777513.38        6.90438                        556969.40
3777513.38        6.56020
         556989.40    3777513.38        6.12962                        557009.40
3777513.38        5.64445
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557029.40    3777513.38        5.12015                        557049.40
3777513.38        4.63843
         557069.40    3777513.38        4.22282                        557089.40
3777513.38        3.89657
         557109.40    3777513.38        3.65099                        557129.40
3777513.38        3.45681
         557149.40    3777513.38        3.29922                        557169.40
3777513.38        3.15681
         557189.40    3777513.38        3.02127                        557209.40
3777513.38        2.90929
```

```
        557229.40    3777513.38        2.79405                    557249.40
3777513.38        2.70020
        557269.40    3777513.38        2.60872                    557289.40
3777513.38        2.52496
        557309.40    3777513.38        2.45243                    557329.40
3777513.38        2.38416
        557349.40    3777513.38        2.31841                    557369.40
3777513.38        2.25470
        557389.40    3777513.38        2.19680                    557409.40
3777513.38        2.14089
        557429.40    3777513.38        2.07916                    557449.40
3777513.38        2.02076
        557469.40    3777513.38        1.96483                    557489.40
3777513.38        1.90986
        556509.40    3777533.38        5.52474                    556529.40
3777533.38        5.95055
        556549.40    3777533.38        6.35361                    556569.40
3777533.38        6.69899
        556589.40    3777533.38        6.91392                    556609.40
3777533.38        6.95326
        556629.40    3777533.38        6.79980                    556649.40
3777533.38        6.50766
        556669.40    3777533.38        6.19042                    556689.40
3777533.38        6.01231
        556709.40    3777533.38        6.00465                    556729.40
3777533.38        6.09490
        556749.40    3777533.38        6.19453                    556769.40
3777533.38        6.28367
        556789.40    3777533.38        6.36097                    556809.40
3777533.38        6.41887
        556829.40    3777533.38        6.53363                    556849.40
3777533.38        6.61156
        556869.40    3777533.38        6.67711                    556889.40
3777533.38        6.68231
        556909.40    3777533.38        6.60348                    556929.40
3777533.38        6.47247
        556949.40    3777533.38        6.28768                    556969.40
3777533.38        6.02184
        556989.40    3777533.38        5.69007                    557009.40
3777533.38        5.29875
        557029.40    3777533.38        4.85608                    557049.40
3777533.38        4.42110
        557069.40    3777533.38        4.02785                    557089.40
3777533.38        3.70060
        557109.40    3777533.38        3.44605                    557129.40
3777533.38        3.25360
        557149.40    3777533.38        3.09967                    557169.40
3777533.38        2.96065
        557189.40    3777533.38        2.83762                    557209.40
3777533.38        2.73468
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         557229.40    3777533.38        2.62371                      557249.40
3777533.38        2.53545
         557269.40    3777533.38        2.44776                      557289.40
3777533.38        2.37039
         557309.40    3777533.38        2.30004                      557329.40
3777533.38        2.23559
         557349.40    3777533.38        2.17650                      557369.40
3777533.38        2.11874
         557389.40    3777533.38        2.06146                      557409.40
3777533.38        2.01441
         557429.40    3777533.38        1.96410                      557449.40
3777533.38        1.91633
         557469.40    3777533.38        1.86442                      557489.40
3777533.38        1.81445
         556509.40    3777553.38        5.36386                      556529.40
3777553.38        5.72343
         556549.40    3777553.38        6.02556                      556569.40
3777553.38        6.25430
         556589.40    3777553.38        6.33910                      556609.40
3777553.38        6.23424
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
               VOL11       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777553.38        6.00791                      556649.40
3777553.38        5.73396
         556669.40    3777553.38        5.48975                      556689.40
3777553.38        5.40239
         556709.40    3777553.38        5.45216                      556729.40
```

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         556749.40    3777553.38        5.62088                  556769.40
3777553.38        5.69313
         556789.40    3777553.38        5.76712                  556809.40
3777553.38        5.82819
         556829.40    3777553.38        5.91985                  556849.40
3777553.38        5.99338
         556869.40    3777553.38        6.04983                  556889.40
3777553.38        6.05811
         556909.40    3777553.38        6.00704                  556929.40
3777553.38        5.91760
         556949.40    3777553.38        5.73718                  556969.40
3777553.38        5.53966
         556989.40    3777553.38        5.26929                  557009.40
3777553.38        4.95835
         557029.40    3777553.38        4.58790                  557049.40
3777553.38        4.21152
         557069.40    3777553.38        3.84973                  557089.40
3777553.38        3.53040
         557109.40    3777553.38        3.26875                  557129.40
3777553.38        3.07123
         557149.40    3777553.38        2.91660                  557169.40
3777553.38        2.78576
         557189.40    3777553.38        2.67237                  557209.40
3777553.38        2.57115
         557229.40    3777553.38        2.47419                  557249.40
3777553.38        2.38533
         557269.40    3777553.38        2.30503                  557289.40
3777553.38        2.23195
         557309.40    3777553.38        2.16436                  557329.40
3777553.38        2.10238
         557349.40    3777553.38        2.04738                  557369.40
3777553.38        1.99559
         557389.40    3777553.38        1.94294                  557409.40
3777553.38        1.89759
         557429.40    3777553.38        1.85319                  557449.40
3777553.38        1.81156
         557469.40    3777553.38        1.76869                  557489.40
3777553.38        1.72226
         557438.91    3777336.71        2.91441                  556615.91
3777136.99        9.02595
         556586.37    3777056.16        5.55031                  556672.35
3776929.14        4.60814
         556692.35    3776929.14        4.96352                  556712.35
3776929.14        5.32104
         556732.35    3776929.14        5.66394                  556752.35
3776929.14        6.04738
         556772.35    3776929.14        6.47911                  556792.35
3776929.14        7.02913
         556812.35    3776929.14        7.74591                  556832.35
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3776929.14        8.62417
         556852.35    3776929.14        9.93996                       556672.35
3776949.14        5.00628
         556692.35    3776949.14        5.44390                       556712.35
3776949.14        5.88827
         556732.35    3776949.14        6.32157                       556752.35
3776949.14        6.75955
         556772.35    3776949.14        7.28676                       556792.35
3776949.14        7.97515
         556812.35    3776949.14        8.83574                       556832.35
3776949.14        9.92372
         556852.35    3776949.14       11.58509                       556672.35
3776969.14        5.43948
         556692.35    3776969.14        5.97798                       556712.35
3776969.14        6.54401
         556732.35    3776969.14        7.10763                       556752.35
3776969.14        7.66314
         556772.35    3776969.14        8.29192                       556792.35
3776969.14        9.11391
         556812.35    3776969.14       10.16011                       556832.35
3776969.14       11.56849
         556852.35    3776969.14       13.70726                       556672.35
3776989.14        5.91233
         556692.35    3776989.14        6.56790                       556712.35
3776989.14        7.28672
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
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         556732.35    3776989.14        8.02602                    556752.35
3776989.14        8.75878
         556772.35    3776989.14        9.54017                    556792.35
3776989.14       10.54125
         556812.35    3776989.14       11.82892                    556832.35
3776989.14       13.65318
         556852.35    3776989.14       16.50901                    556672.35
3777009.14        6.44628
         556692.35    3777009.14        7.22154                    556712.35
3777009.14        8.12503
         556732.35    3777009.14        9.09663                    556752.35
3777009.14       10.08855
         556772.35    3777009.14       11.11025                    556792.35
3777009.14       12.35233
         556812.35    3777009.14       13.97566                    556832.35
3777009.14       16.37020
         556852.35    3777009.14       20.30926                    556672.35
3777029.14        7.12935
         556692.35    3777029.14        7.98260                    556712.35
3777029.14        9.08079
         556732.35    3777029.14       10.34043                    556752.35
3777029.14       11.70251
         556772.35    3777029.14       13.10438                    556792.35
3777029.14       14.70861
         556812.35    3777029.14       16.81254                    556832.35
3777029.14       20.08719
         556852.35    3777029.14       25.63736                    556672.35
3777049.14        8.07699
         556692.35    3777049.14        8.97936                    556712.35
3777049.14       10.22232
         556732.35    3777049.14       11.80089                    556752.35
3777049.14       13.66566
         556772.35    3777049.14       15.66664                    556792.35
3777049.14       17.84660
         556812.35    3777049.14       20.72097                    556832.35
3777049.14       25.32660
         556852.35    3777049.14       33.46448                    556927.54
3776959.53       25.86380
         556947.54    3776959.53       26.64921                    556967.54
3776959.53       24.26427
         556987.54    3776959.53       19.75594                    557007.54
3776959.53       15.04161
         557027.54    3776959.53       11.45012                    557047.54
3776959.53        9.21203
         557067.54    3776959.53        7.93133                    557087.54
3776959.53        7.15790
         556927.54    3776979.53       30.76649                    556947.54
3776979.53       29.89298
         556967.54    3776979.53       25.32110                    556987.54
3776979.53       19.38912
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         557007.54    3776979.53       14.42552                       557027.54
3776979.53       11.23424
         557047.54    3776979.53        9.43826                       557067.54
3776979.53        8.40200
         557087.54    3776979.53        7.69502                       556927.54
3776999.53       36.24832
         556947.54    3776999.53       32.63418                       556967.54
3776999.53       25.57355
         556987.54    3776999.53       18.70845                       557007.54
3776999.53       14.05373
         557027.54    3776999.53       11.45666                       557047.54
3776999.53       10.02163
         557067.54    3776999.53        9.08677                       557087.54
3776999.53        8.34601
         556927.54    3777019.53       41.88075                       556947.54
3777019.53       34.40974
         556967.54    3777019.53       25.09910                       556987.54
3777019.53       18.15361
         557007.54    3777019.53       14.25216                       557027.54
3777019.53       12.19652
         557047.54    3777019.53       10.92080                       557067.54
3777019.53        9.93320
         557087.54    3777019.53        9.07106                       556927.54
3777039.53       46.91301
         556947.54    3777039.53       34.93260                       556967.54
3777039.53       24.41626
         556987.54    3777039.53       18.29995                       557007.54
3777039.53       15.21419
         557027.54    3777039.53       13.40920                       557047.54
3777039.53       12.04813
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557067.54	3777039.53	10.87289	557087.54	3777039.53	9.82639
557047.54	3777059.53	13.28873	557067.54	3777059.53	11.83395
557087.54	3777059.53	10.55993	556919.02	3777174.93	117.43333
556939.02	3777174.93	75.50464	556919.02	3777194.93	127.79150
556939.02	3777194.93	81.69809	556919.02	3777214.93	103.69445
556939.02	3777214.93	74.81155	556919.02	3777234.93	72.17657
556939.02	3777234.93	57.83050	556919.02	3777254.93	51.15631
556939.02	3777254.93	42.50843	557023.57	3777171.57	23.17329
557043.57	3777171.57	19.15179	557063.57	3777171.57	16.10997
557083.57	3777171.57	13.77756	557023.57	3777191.57	24.85356
557043.57	3777191.57	20.43640	557063.57	3777191.57	17.11477
557083.57	3777191.57	14.60786	557023.57	3777211.57	25.71706
557043.57	3777211.57	21.25488	557063.57	3777211.57	17.87271
557083.57	3777211.57	15.12972	557023.57	3777231.57	24.88280
557043.57	3777231.57	20.90951	557063.57	3777231.57	17.79432
557083.57	3777231.57	15.03083	557023.57	3777251.57	22.52766
557043.57	3777251.57	19.40038	557063.57	3777251.57	16.84180
557083.57	3777251.57	14.28697	556249.05	3776972.85	1.30337
556269.05	3776972.85	1.34523	556229.05	3776992.85	1.42879
556249.05	3776992.85	1.35056	556269.05	3776992.85	1.41338
556289.05	3776992.85	1.46486	556309.05	3776992.85	1.52805
556329.05	3776992.85	1.56928	556209.05	3777012.85	1.40765
556229.05	3777012.85	1.46972	556249.05		

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3777012.85        1.54072
         556269.05    3777012.85        1.61862                        556289.05
3777012.85        1.67860
         556309.05    3777012.85        1.60657                        556329.05
3777012.85        1.69254
         556209.05    3777032.85        1.44845                        556229.05
3777032.85        1.51665
         556249.05    3777032.85        1.59136                        556269.05
3777032.85        1.67257
         556289.05    3777032.85        1.76232                        556309.05
3777032.85        1.85788
         556209.05    3777052.85        1.49998                        556229.05
3777052.85        1.57063
         556249.05    3777052.85        1.65011                        556269.05
3777052.85        1.73502
         556289.05    3777052.85        1.82790                        556309.05
3777052.85        1.92949
         556249.05    3777072.85        1.71756                        556269.05
3777072.85        1.80804
         556289.05    3777072.85        1.90554                        556269.05
3777092.85        1.89221
         556441.69    3776927.49        1.68452                        556461.69
3776927.49        1.73272
         556481.69    3776927.49        1.73477                        556421.69
3776947.49        1.78041
         556441.69    3776947.49        1.83583                        556461.69
3776947.49        1.92435
         556481.69    3776947.49        1.96190                        556401.69
3776967.49        1.76441
         556421.69    3776967.49        1.87863                        556441.69
3776967.49        1.95816
         556461.69    3776967.49        2.05999                        556481.69
3776967.49        2.18408
         556401.69    3776987.49        1.83352                        556421.69
3776987.49        1.93527
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556441.69	3776987.49	2.07292	556461.69	3776987.49	2.20865
556481.69	3776987.49	2.37701	556421.69	3777007.49	2.01591
556441.69	3777007.49	2.13493	556461.69	3777007.49	2.29341
556481.69	3777007.49	2.50614	556441.69	3777027.49	2.24666
556461.69	3777027.49	2.38206	556481.69	3777027.49	2.61001
556251.24	3777154.95	2.07974	556261.28	3777141.20	2.07906
556264.98	3777168.16	2.22008	556279.25	3777151.77	2.23932
556202.60	3777113.45	1.67999	556220.05	3777109.75	1.73993
556187.53	3777090.19	1.54374	556164.27	3777121.38	1.56040
557510.26	3776508.23	1.65009	557530.26	3776508.23	1.60347
557550.26	3776508.23	1.55524	557570.26	3776508.23	1.50679
557590.26	3776508.23	1.46016	557610.26	3776508.23	1.41602
557630.26	3776508.23	1.37154	557650.26	3776508.23	1.32924
557670.26	3776508.23	1.28659	557690.26	3776508.23	1.24464
557510.26	3776528.23	1.67778	557530.26	3776528.23	1.62597
557550.26	3776528.23	1.57482	557570.26	3776528.23	1.52213
557590.26	3776528.23	1.47375	557610.26	3776528.23	1.42697
557630.26	3776528.23	1.38226	557650.26	3776528.23	1.33957
557670.26	3776528.23	1.29513	557690.26	3776528.23	1.25403
557510.26	3776548.23	1.69842	557530.26	3776548.23	1.64577

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         557550.26    3776548.23        1.58680                      557570.26
3776548.23        1.53144
         557590.26    3776548.23        1.48254                      557610.26
3776548.23        1.43413
         557630.26    3776548.23        1.38855                      557650.26
3776548.23        1.34602
         557670.26    3776548.23        1.30253                      557690.26
3776548.23        1.26251
         557510.26    3776568.23        1.71493                      557530.26
3776568.23        1.65823
         557550.26    3776568.23        1.59827                      557570.26
3776568.23        1.53921
         557590.26    3776568.23        1.48785                      557610.26
3776568.23        1.43844
         557630.26    3776568.23        1.39246                      557650.26
3776568.23        1.35122
         557670.26    3776568.23        1.30808                      557690.26
3776568.23        1.26726
         557510.26    3776588.23        1.72573                      557530.26
3776588.23        1.66811
         557550.26    3776588.23        1.60600                      557570.26
3776588.23        1.54312
         557590.26    3776588.23        1.48759                      557610.26
3776588.23        1.43802
         557630.26    3776588.23        1.39564                      557650.26
3776588.23        1.35423
         557670.26    3776588.23        1.31352                      557690.26
3776588.23        1.27500
         557510.26    3776608.23        1.73023                      557530.26
3776608.23        1.67151
         557550.26    3776608.23        1.60671                      557570.26
3776608.23        1.54468
         557590.26    3776608.23        1.48598                      557610.26
3776608.23        1.43677
         557630.26    3776608.23        1.39541                      557650.26
3776608.23        1.35423
         557670.26    3776608.23        1.31357                      557690.26
3776608.23        1.27483
         557510.26    3776628.23        1.73021                      557530.26
3776628.23        1.66838
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: FUELING ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL3
, VOL5   , VOL7   , VOL10   ,
                VOL11   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         557550.26   3776628.23   1.60059   557570.26
3776628.23   1.54994
         557590.26   3776628.23   1.48314   557610.26
3776628.23   1.43414
         557630.26   3776628.23   1.39102   557650.26
3776628.23   1.35350
         557670.26   3776628.23   1.31381   557690.26
3776628.23   1.27698
         557510.26   3776648.23   1.72272   557530.26
3776648.23   1.65508
         557550.26   3776648.23   1.58688   557570.26
3776648.23   1.52131
         557590.26   3776648.23   1.47263   557610.26
3776648.23   1.42228
         557630.26   3776648.23   1.38290   557650.26
3776648.23   1.34795
         557670.26   3776648.23   1.30804   557690.26
3776648.23   1.27256
         557510.26   3776668.23   1.69908   557530.26
3776668.23   1.63236
         557550.26   3776668.23   1.56394   557570.26
3776668.23   1.50056
         557590.26   3776668.23   1.46150   557610.26
3776668.23   1.40035
         557630.26   3776668.23   1.36147   557650.26
3776668.23   1.33226
         557670.26   3776668.23   1.29701   557690.26
3776668.23   1.26204
         557510.26   3776688.23   1.66891   557530.26
3776688.23   1.39234
         557550.26   3776688.23   1.34987   557570.26
3776688.23   1.30935
         557590.26   3776688.23   1.27066   557610.26
3776688.23   1.23385
         557630.26   3776688.23   1.19858   557650.26

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3776688.23        1.16479
         557670.26    3776688.23        1.13259                     557690.26
3776688.23        1.10180
         556172.49    3776517.81        0.35279                     556192.49
3776517.81        0.37116
         556212.49    3776517.81        0.38082                     556232.49
3776517.81        0.39370
         556252.49    3776517.81        0.40443                     556272.49
3776517.81        0.41766
         556292.49    3776517.81        0.42743                     556312.49
3776517.81        0.43388
         556332.49    3776517.81        0.44451                     556352.49
3776517.81        0.45012
         556372.49    3776517.81        0.44998                     556392.49
3776517.81        0.46708
         556412.49    3776517.81        0.48057                     556432.49
3776517.81        0.49345
         556452.49    3776517.81        0.50477                     556472.49
3776517.81        0.52767
         556492.49    3776517.81        0.54681                     556172.49
3776537.81        0.35801
         556192.49    3776537.81        0.37137                     556212.49
3776537.81        0.38750
         556232.49    3776537.81        0.40179                     556252.49
3776537.81        0.41532
         556272.49    3776537.81        0.42517                     556292.49
3776537.81        0.44251
         556312.49    3776537.81        0.45289                     556332.49
3776537.81        0.46482
         556352.49    3776537.81        0.47177                     556372.49
3776537.81        0.47375
         556392.49    3776537.81        0.47661                     556412.49
3776537.81        0.49481
         556432.49    3776537.81        0.51160                     556452.49
3776537.81        0.52290
         556472.49    3776537.81        0.54833                     556492.49
3776537.81        0.57176
         556332.49    3776557.81        0.48931                     556352.49
3776557.81        0.49069
         556372.49    3776557.81        0.50038                     556392.49
3776557.81        0.50448
         556412.49    3776557.81        0.52098                     556432.49
3776557.81        0.53366
         556452.49    3776557.81        0.54496                     556472.49
3776557.81        0.56831
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       13:24:37
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FUELING ***
INCLUDING SOURCE(S): VOL1 , VOL3 , VOL5 , VOL7 , VOL10 , VOL11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556492.49	3776557.81	0.59666	556332.49	3776577.81	0.50655
556352.49	3776577.81	0.51921	556372.49	3776577.81	0.52748
556392.49	3776577.81	0.53771	556412.49	3776577.81	0.55044
556432.49	3776577.81	0.55832	556452.49	3776577.81	0.57347
556472.49	3776577.81	0.59701	556492.49	3776577.81	0.62282
556332.49	3776597.81	0.53165	556352.49	3776597.81	0.54538
556372.49	3776597.81	0.55515	556392.49	3776597.81	0.55868
556412.49	3776597.81	0.57752	556432.49	3776597.81	0.58553
556452.49	3776597.81	0.59333	556472.49	3776597.81	0.61476
556492.49	3776597.81	0.64969	556252.49	3776617.81	0.46377
556272.49	3776617.81	0.47953	556292.49	3776617.81	0.50146
556312.49	3776617.81	0.52761	556332.49	3776617.81	0.54290
556352.49	3776617.81	0.57025	556372.49	3776617.81	0.58946
556392.49	3776617.81	0.59738	556412.49	3776617.81	0.61255
556432.49	3776617.81	0.61730	556452.49	3776617.81	0.63360

```
         556472.49    3776617.81        0.64055                    556492.49
3776617.81        0.67734
         556252.49    3776637.81        0.47943                    556272.49
3776637.81        0.50167
         556292.49    3776637.81        0.51498                    556312.49
3776637.81        0.53595
         556332.49    3776637.81        0.56757                    556352.49
3776637.81        0.59049
         556372.49    3776637.81        0.61776                    556392.49
3776637.81        0.62806
         556412.49    3776637.81        0.64248                    556432.49
3776637.81        0.65336
         556452.49    3776637.81        0.66276                    556472.49
3776637.81        0.68009
         556492.49    3776637.81        0.70698                    556252.49
3776657.81        0.50430
         556272.49    3776657.81        0.52042                    556292.49
3776657.81        0.53982
         556312.49    3776657.81        0.54675                    556332.49
3776657.81        0.58297
         556352.49    3776657.81        0.61469                    556372.49
3776657.81        0.64468
         556392.49    3776657.81        0.65579                    556412.49
3776657.81        0.67203
         556432.49    3776657.81        0.68522                    556452.49
3776657.81        0.69896
         556472.49    3776657.81        0.71433                    556492.49
3776657.81        0.74121
         556252.49    3776677.81        0.53492                    556272.49
3776677.81        0.53618
         556292.49    3776677.81        0.55099                    556312.49
3776677.81        0.57185
         556332.49    3776677.81        0.59955                    556352.49
3776677.81        0.63389
         556372.49    3776677.81        0.66415                    556392.49
3776677.81        0.68484
         556412.49    3776677.81        0.71257                    556432.49
3776677.81        0.72112
         556452.49    3776677.81        0.73489                    556472.49
3776677.81        0.75571
         556492.49    3776677.81        0.78103                    556252.49
3776697.81        0.57275
         556272.49    3776697.81        0.57062                    556372.49
3776697.81        0.68428
         556392.49    3776697.81        0.70307                    556412.49
3776697.81        0.73771
         556432.49    3776697.81        0.75755                    556452.49
3776697.81        0.77164
         556472.49    3776697.81        0.79551                    556492.49
3776697.81        0.82446
```

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FUELING ***
INCLUDING SOURCE(S): VOL1 , VOL3 , VOL5 , VOL7 , VOL10 , VOL11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556252.49	3776717.81	0.60313	556272.49	3776717.81	0.60996
556372.49	3776717.81	0.70472	556392.49	3776717.81	0.72224
556412.49	3776717.81	0.76422	556432.49	3776717.81	0.79196
556452.49	3776717.81	0.81290	556472.49	3776717.81	0.85506
556492.49	3776717.81	0.87226	556267.40	3776875.81	1.12431
556239.03	3776853.02	1.00797	556178.76	3776751.21	0.73356
556154.45	3776774.51	0.76343	556119.50	3776705.11	0.60962
556146.51	3777267.93	1.89037	556151.00	3777234.88	1.81683
556144.93	3777179.58	1.64400	556205.18	3777236.46	2.11382
556218.00	3777200.04	2.05843	556773.51	3777349.00	23.43339

↟ *** AERMOD - VERSION 24142 *** ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
*** AERMET - VERSION 22112 *** ***
*** 13:24:37

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL ***
INCLUDING SOURCE(S): VOL2 , VOL4 , VOL6 , VOL8 , VOL9 , VOL12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556521.71	3777341.57	7.76816	556539.90	3777344.94	8.44171
556591.78	3777345.39	11.16658	556630.62	3777349.66	14.05069
556684.29	3777349.43	20.22877	556905.58	3777351.19	22.26454
556920.93	3777350.82	20.14589	556942.87	3777350.09	16.85221
556996.26	3777348.26	11.66248	557096.81	3777357.77	7.52515
557115.83	3777363.62	6.87514	557129.36	3777361.43	6.69607
557230.65	3777363.99	4.99822	556466.22	3776816.07	1.06519
556407.87	3776826.19	0.99216	556381.07	3776807.14	0.90804
556404.29	3776771.52	0.82910	556465.21	3776739.51	0.90526
556396.10	3776739.93	0.77090	556323.99	3777265.43	3.27157
556330.60	3777233.99	3.13374	556321.08	3777200.43	2.81321
556275.11	3777267.81	2.76938	556278.28	3777233.46	2.61547
556509.40	3777373.38	7.00455	556529.40	3777373.38	7.66344
556549.40	3777373.38	8.44433	556569.40	3777373.38	9.35024
556589.40	3777373.38	10.42662	556609.40	3777373.38	11.63895

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         556629.40    3777373.38       13.08939                    556649.40
3777373.38       14.80165
         556669.40    3777373.38       16.83810                    556689.40
3777373.38       18.86786
         556709.40    3777373.38       20.09255                    556729.40
3777373.38       19.90755
         556749.40    3777373.38       18.88396                    556769.40
3777373.38       18.14385
         556789.40    3777373.38       18.27595                    556809.40
3777373.38       18.82986
         556829.40    3777373.38       19.38967                    556849.40
3777373.38       19.82528
         556869.40    3777373.38       19.94282                    556889.40
3777373.38       19.37464
         556909.40    3777373.38       18.13501                    556929.40
3777373.38       16.24638
         556949.40    3777373.38       14.02654                    556969.40
3777373.38       11.97446
         556989.40    3777373.38       10.41642                    557009.40
3777373.38        9.34677
         557029.40    3777373.38        8.60011                    557049.40
3777373.38        7.99491
         557069.40    3777373.38        7.46060                    557089.40
3777373.38        7.00681
         557109.40    3777373.38        6.61087                    557129.40
3777373.38        6.26124
         557149.40    3777373.38        5.94291                    557169.40
3777373.38        5.64991
         557189.40    3777373.38        5.38057                    557209.40
3777373.38        5.11636
         557229.40    3777373.38        4.85062                    557249.40
3777373.38        4.59033
         557269.40    3777373.38        4.33797                    557289.40
3777373.38        4.10809
         557309.40    3777373.38        3.89357                    557329.40
3777373.38        3.67847
         557349.40    3777373.38        3.48988                    557369.40
3777373.38        3.30692
         557389.40    3777373.38        3.13681                    557409.40
3777373.38        2.97864
         557429.40    3777373.38        2.82592                    557449.40
3777373.38        2.69107
         557469.40    3777373.38        2.56131                    557489.40
3777373.38        2.43108
         556509.40    3777393.38        6.79724                    556529.40
3777393.38        7.43250
         556549.40    3777393.38        8.17048                    556569.40
3777393.38        9.00016
         556589.40    3777393.38        9.98855                    556609.40
3777393.38       11.11333
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   , VOL4
, VOL6   , VOL8   , VOL9   ,
                VOL12   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         556629.40   3777393.38   12.49236   556649.40
3777393.38   14.01558
         556669.40   3777393.38   15.56834   556689.40
3777393.38   16.69069
         556709.40   3777393.38   16.91475   556729.40
3777393.38   16.15295
         556749.40   3777393.38   15.34838   556769.40
3777393.38   15.10758
         556789.40   3777393.38   15.36636   556809.40
3777393.38   15.77641
         556829.40   3777393.38   16.18587   556849.40
3777393.38   16.47658
         556869.40   3777393.38   16.56585   556889.40
3777393.38   16.31705
         556909.40   3777393.38   15.51008   556929.40
3777393.38   14.29866
         556949.40   3777393.38   12.62360   556969.40
3777393.38   10.93284
         556989.40   3777393.38   9.49371   557009.40
3777393.38   8.44526
         557029.40   3777393.38   7.70016   557049.40
3777393.38   7.14767
         557069.40   3777393.38   6.68970   557089.40
3777393.38   6.29068
         557109.40   3777393.38   5.94504   557129.40

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3777393.38        5.62133
         557149.40    3777393.38        5.35838                    557169.40
3777393.38        5.10731
         557189.40    3777393.38        4.87889                    557209.40
3777393.38        4.67737
         557229.40    3777393.38        4.47781                    557249.40
3777393.38        4.26819
         557269.40    3777393.38        4.06978                    557289.40
3777393.38        3.87411
         557309.40    3777393.38        3.67646                    557329.40
3777393.38        3.50653
         557349.40    3777393.38        3.33672                    557369.40
3777393.38        3.17709
         557389.40    3777393.38        3.02520                    557409.40
3777393.38        2.87613
         557429.40    3777393.38        2.73870                    557449.40
3777393.38        2.61317
         557469.40    3777393.38        2.48885                    557489.40
3777393.38        2.36677
         556509.40    3777413.38        6.60881                    556529.40
3777413.38        7.21879
         556549.40    3777413.38        7.91229                    556569.40
3777413.38        8.69502
         556589.40    3777413.38        9.59976                    556609.40
3777413.38       10.66856
         556629.40    3777413.38       11.92329                    556649.40
3777413.38       13.15472
         556669.40    3777413.38       14.16357                    556689.40
3777413.38       14.51692
         556709.40    3777413.38       14.08811                    556729.40
3777413.38       13.28391
         556749.40    3777413.38       12.79392                    556769.40
3777413.38       12.89151
         556789.40    3777413.38       13.15160                    556809.40
3777413.38       13.46426
         556829.40    3777413.38       13.75232                    556849.40
3777413.38       14.00617
         556869.40    3777413.38       14.14634                    556889.40
3777413.38       13.93649
         556909.40    3777413.38       13.43221                    556929.40
3777413.38       12.66929
         556949.40    3777413.38       11.42099                    556969.40
3777413.38       10.04976
         556989.40    3777413.38        8.74781                    557009.40
3777413.38        7.72928
         557029.40    3777413.38        6.98367                    557049.40
3777413.38        6.46062
         557069.40    3777413.38        6.05120                    557089.40
3777413.38        5.69851
         557109.40    3777413.38        5.39176                    557129.40
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3777413.38        5.09337
         557149.40    3777413.38        4.86121                       557169.40
3777413.38        4.63500
         557189.40    3777413.38        4.44290                       557209.40
3777413.38        4.27367
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         557229.40    3777413.38        4.10310                       557249.40
3777413.38        3.94020
         557269.40    3777413.38        3.78328                       557289.40
3777413.38        3.62739
         557309.40    3777413.38        3.47294                       557329.40
3777413.38        3.31758
         557349.40    3777413.38        3.18001                       557369.40
3777413.38        3.03249
         557389.40    3777413.38        2.90275                       557409.40
3777413.38        2.77583
         557429.40    3777413.38        2.64266                       557449.40
3777413.38        2.52654
         557469.40    3777413.38        2.41911                       557489.40
3777413.38        2.30829
         556509.40    3777433.38        6.42740                       556529.40
3777433.38        6.98638
         556549.40    3777433.38        7.61491                       556569.40
3777433.38        8.33744
         556589.40    3777433.38        9.22729                       556609.40
3777433.38       10.23690
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         556629.40    3777433.38       11.29404                    556649.40
3777433.38       12.18079
         556669.40    3777433.38       12.61047                    556689.40
3777433.38       12.44111
         556709.40    3777433.38       11.76557                    556729.40
3777433.38       11.18303
         556749.40    3777433.38       10.98946                    556769.40
3777433.38       11.19227
         556789.40    3777433.38       11.40431                    556809.40
3777433.38       11.60568
         556829.40    3777433.38       11.83871                    556849.40
3777433.38       12.02917
         556869.40    3777433.38       12.15513                    556889.40
3777433.38       12.03367
         556909.40    3777433.38       11.71187                    556929.40
3777433.38       11.15568
         556949.40    3777433.38       10.33996                    556969.40
3777433.38        9.25383
         556989.40    3777433.38        8.12583                    557009.40
3777433.38        7.18936
         557029.40    3777433.38        6.44311                    557049.40
3777433.38        5.91974
         557069.40    3777433.38        5.52308                    557089.40
3777433.38        5.20127
         557109.40    3777433.38        4.92599                    557129.40
3777433.38        4.66241
         557149.40    3777433.38        4.44271                    557169.40
3777433.38        4.23054
         557189.40    3777433.38        4.05903                    557209.40
3777433.38        3.90723
         557229.40    3777433.38        3.75488                    557249.40
3777433.38        3.62893
         557269.40    3777433.38        3.49961                    557289.40
3777433.38        3.36839
         557309.40    3777433.38        3.25234                    557329.40
3777433.38        3.12400
         557349.40    3777433.38        2.99111                    557369.40
3777433.38        2.87462
         557389.40    3777433.38        2.77401                    557409.40
3777433.38        2.66532
         557429.40    3777433.38        2.54356                    557449.40
3777433.38        2.43939
         557469.40    3777433.38        2.33809                    557489.40
3777433.38        2.24109
         556509.40    3777453.38        6.22440                    556529.40
3777453.38        6.74431
         556549.40    3777453.38        7.35621                    556569.40
3777453.38        8.05544
         556589.40    3777453.38        8.88688                    556609.40
3777453.38        9.75190
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         556629.40    3777453.38       10.56720                       556649.40
3777453.38       11.04429
         556669.40    3777453.38       11.01147                       556689.40
3777453.38       10.53735
         556709.40    3777453.38        9.91914                       556729.40
3777453.38        9.60588
         556749.40    3777453.38        9.63414                       556769.40
3777453.38        9.81954
         556789.40    3777453.38        9.97987                       556809.40
3777453.38       10.12990
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556829.40    3777453.38       10.34701                       556849.40
3777453.38       10.52361
         556869.40    3777453.38       10.64130                       556889.40
3777453.38       10.50891
         556909.40    3777453.38       10.28916                       556929.40
3777453.38        9.85976
         556949.40    3777453.38        9.29726                       556969.40
3777453.38        8.51075
         556989.40    3777453.38        7.59306                       557009.40
3777453.38        6.70875
         557029.40    3777453.38        5.98640                       557049.40
3777453.38        5.45254
         557069.40    3777453.38        5.07391                       557089.40
3777453.38        4.77697
         557109.40    3777453.38        4.52983                       557129.40
```

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3777453.38        4.29803
         557149.40    3777453.38        4.09564                    557169.40
3777453.38        3.89333
         557189.40    3777453.38        3.73008                    557209.40
3777453.38        3.59088
         557229.40    3777453.38        3.45297                    557249.40
3777453.38        3.34278
         557269.40    3777453.38        3.23048                    557289.40
3777453.38        3.12337
         557309.40    3777453.38        3.02628                    557329.40
3777453.38        2.92513
         557349.40    3777453.38        2.82675                    557369.40
3777453.38        2.71843
         557389.40    3777453.38        2.62348                    557409.40
3777453.38        2.53829
         557429.40    3777453.38        2.44330                    557449.40
3777453.38        2.35053
         557469.40    3777453.38        2.25791                    557489.40
3777453.38        2.16585
         556509.40    3777473.38        6.01897                    556529.40
3777473.38        6.50391
         556549.40    3777473.38        7.09067                    556569.40
3777473.38        7.79132
         556589.40    3777473.38        8.50953                    556609.40
3777473.38        9.18382
         556629.40    3777473.38        9.67230                    556649.40
3777473.38        9.80093
         556669.40    3777473.38        9.48334                    556689.40
3777473.38        8.94134
         556709.40    3777473.38        8.52572                    556729.40
3777473.38        8.42335
         556749.40    3777473.38        8.52270                    556769.40
3777473.38        8.69111
         556789.40    3777473.38        8.80049                    556809.40
3777473.38        8.92637
         556829.40    3777473.38        9.10070                    556849.40
3777473.38        9.28380
         556869.40    3777473.38        9.38743                    556889.40
3777473.38        9.28244
         556909.40    3777473.38        9.12058                    556929.40
3777473.38        8.83442
         556949.40    3777473.38        8.42165                    556969.40
3777473.38        7.83572
         556989.40    3777473.38        7.11107                    557009.40
3777473.38        6.35209
         557029.40    3777473.38        5.65618                    557049.40
3777473.38        5.10416
         557069.40    3777473.38        4.71149                    557089.40
3777473.38        4.41421
         557109.40    3777473.38        4.18621                    557129.40
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3777473.38   3.97616
         557149.40   3777473.38   3.79821   557169.40
3777473.38   3.61350
         557189.40   3777473.38   3.45788   557209.40
3777473.38   3.32116
         557229.40   3777473.38   3.19432   557249.40
3777473.38   3.09058
         557269.40   3777473.38   2.98774   557289.40
3777473.38   2.89466
         557309.40   3777473.38   2.81079   557329.40
3777473.38   2.73045
         557349.40   3777473.38   2.64729   557369.40
3777473.38   2.56640
         557389.40   3777473.38   2.48222   557409.40
3777473.38   2.40563

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                  INCLUDING SOURCE(S):   VOL2   , VOL4
, VOL6   , VOL8   , VOL9   ,
                VOL12   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF TOG   IN MICROGRAMS/M**3
                 **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         557429.40   3777473.38   2.32258   557449.40
3777473.38   2.25111
         557469.40   3777473.38   2.17093   557489.40
3777473.38   2.09062
         556509.40   3777493.38   5.83246   556529.40
3777493.38   6.33663
         556549.40   3777493.38   6.89807   556569.40
3777493.38   7.46257
         556589.40   3777493.38   8.04132   556609.40
3777493.38   8.51865

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        556629.40    3777493.38        8.69716                    556649.40
3777493.38        8.54547
        556669.40    3777493.38        8.15503                    556689.40
3777493.38        7.70469
        556709.40    3777493.38        7.47341                    556729.40
3777493.38        7.50975
        556749.40    3777493.38        7.62085                    556769.40
3777493.38        7.75233
        556789.40    3777493.38        7.82870                    556809.40
3777493.38        7.91857
        556829.40    3777493.38        8.08592                    556849.40
3777493.38        8.23209
        556869.40    3777493.38        8.32976                    556889.40
3777493.38        8.27142
        556909.40    3777493.38        8.14535                    556929.40
3777493.38        7.92803
        556949.40    3777493.38        7.62938                    556969.40
3777493.38        7.18971
        556989.40    3777493.38        6.64211                    557009.40
3777493.38        6.01387
        557029.40    3777493.38        5.37768                    557049.40
3777493.38        4.83181
        557069.40    3777493.38        4.41984                    557089.40
3777493.38        4.10966
        557109.40    3777493.38        3.89083                    557129.40
3777493.38        3.69778
        557149.40    3777493.38        3.53253                    557169.40
3777493.38        3.37414
        557189.40    3777493.38        3.22198                    557209.40
3777493.38        3.09559
        557229.40    3777493.38        2.97315                    557249.40
3777493.38        2.86761
        557269.40    3777493.38        2.77527                    557289.40
3777493.38        2.69017
        557309.40    3777493.38        2.61023                    557329.40
3777493.38        2.53890
        557349.40    3777493.38        2.47157                    557369.40
3777493.38        2.40392
        557389.40    3777493.38        2.33972                    557409.40
3777493.38        2.27462
        557429.40    3777493.38        2.19870                    557449.40
3777493.38        2.13588
        557469.40    3777493.38        2.07482                    557489.40
3777493.38        2.00753
        556509.40    3777513.38        5.66923                    556529.40
3777513.38        6.14381
        556549.40    3777513.38        6.63730                    556569.40
3777513.38        7.19176
        556589.40    3777513.38        7.60363                    556609.40
3777513.38        7.80059
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         556629.40    3777513.38        7.79118                      556649.40
3777513.38        7.48204
         556669.40    3777513.38        7.06709                      556689.40
3777513.38        6.74218
         556709.40    3777513.38        6.66283                      556729.40
3777513.38        6.76164
         556749.40    3777513.38        6.86816                      556769.40
3777513.38        6.97127
         556789.40    3777513.38        7.03120                      556809.40
3777513.38        7.09339
         556829.40    3777513.38        7.23050                      556849.40
3777513.38        7.35564
         556869.40    3777513.38        7.44383                      556889.40
3777513.38        7.42098
         556909.40    3777513.38        7.30040                      556929.40
3777513.38        7.15016
         556949.40    3777513.38        6.93115                      556969.40
3777513.38        6.60487
         556989.40    3777513.38        6.17748                      557009.40
3777513.38        5.67511
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557029.40    3777513.38        5.12033                      557049.40
3777513.38        4.61085
         557069.40    3777513.38        4.18340                      557089.40
3777513.38        3.86215
         557109.40    3777513.38        3.63022                      557129.40
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3777513.38        3.44940
         557149.40    3777513.38        3.29955                    557169.40
3777513.38        3.15881
         557189.40    3777513.38        3.02077                    557209.40
3777513.38        2.90409
         557229.40    3777513.38        2.78441                    557249.40
3777513.38        2.68691
         557269.40    3777513.38        2.59351                    557289.40
3777513.38        2.50950
         557309.40    3777513.38        2.43809                    557329.40
3777513.38        2.37207
         557349.40    3777513.38        2.30931                    557369.40
3777513.38        2.24888
         557389.40    3777513.38        2.19414                    557409.40
3777513.38        2.14107
         557429.40    3777513.38        2.08177                    557449.40
3777513.38        2.02520
         557469.40    3777513.38        1.97053                    557489.40
3777513.38        1.91630
         556509.40    3777533.38        5.51774                    556529.40
3777533.38        5.96416
         556549.40    3777533.38        6.39510                    556569.40
3777533.38        6.77071
         556589.40    3777533.38        7.00711                    556609.40
3777533.38        7.04270
         556629.40    3777533.38        6.85135                    556649.40
3777533.38        6.50465
         556669.40    3777533.38        6.15606                    556689.40
3777533.38        5.98991
         556709.40    3777533.38        6.01708                    556729.40
3777533.38        6.12923
         556749.40    3777533.38        6.22342                    556769.40
3777533.38        6.29140
         556789.40    3777533.38        6.35022                    556809.40
3777533.38        6.40375
         556829.40    3777533.38        6.52708                    556849.40
3777533.38        6.61997
         556869.40    3777533.38        6.69157                    556889.40
3777533.38        6.69014
         556909.40    3777533.38        6.60304                    556929.40
3777533.38        6.47456
         556949.40    3777533.38        6.30419                    556969.40
3777533.38        6.05570
         556989.40    3777533.38        5.73317                    557009.40
3777533.38        5.33543
         557029.40    3777533.38        4.87091                    557049.40
3777533.38        4.40861
         557069.40    3777533.38        3.99586                    557089.40
3777533.38        3.66412
         557109.40    3777533.38        3.41755                    557129.40
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3777533.38        3.23786
         557149.40    3777533.38        3.09489                       557169.40
3777533.38        2.96197
         557189.40    3777533.38        2.83992                       557209.40
3777533.38        2.73436
         557229.40    3777533.38        2.61961                       557249.40
3777533.38        2.52715
         557269.40    3777533.38        2.43623                       557289.40
3777533.38        2.35679
         557309.40    3777533.38        2.28573                       557329.40
3777533.38        2.22183
         557349.40    3777533.38        2.16431                       557369.40
3777533.38        2.10890
         557389.40    3777533.38        2.05441                       557409.40
3777533.38        2.01011
         557429.40    3777533.38        1.96248                       557449.40
3777533.38        1.91705
         557469.40    3777533.38        1.86710                       557489.40
3777533.38        1.81862
         556509.40    3777553.38        5.37302                       556529.40
3777553.38        5.75545
         556549.40    3777553.38        6.08340                       556569.40
3777553.38        6.33376
         556589.40    3777553.38        6.42340                       556609.40
3777553.38        6.29528
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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         556629.40    3777553.38        6.02313                    556649.40
3777553.38        5.70813
         556669.40    3777553.38        5.45829                    556689.40
3777553.38        5.39710
         556709.40    3777553.38        5.47614                    556729.40
3777553.38        5.58252
         556749.40    3777553.38        5.64211                    556769.40
3777553.38        5.69482
         556789.40    3777553.38        5.75436                    556809.40
3777553.38        5.81325
         556829.40    3777553.38        5.91374                    556849.40
3777553.38        6.00061
         556869.40    3777553.38        6.06278                    556889.40
3777553.38        6.06529
         556909.40    3777553.38        6.00551                    556929.40
3777553.38        5.91564
         556949.40    3777553.38        5.74615                    556969.40
3777553.38        5.56393
         556989.40    3777553.38        5.30530                    557009.40
3777553.38        4.99553
         557029.40    3777553.38        4.61229                    557049.40
3777553.38        4.21323
         557069.40    3777553.38        3.82913                    557089.40
3777553.38        3.49760
         557109.40    3777553.38        3.23663                    557129.40
3777553.38        3.04825
         557149.40    3777553.38        2.90509                    557169.40
3777553.38        2.78328
         557189.40    3777553.38        2.67438                    557209.40
3777553.38        2.57352
         557229.40    3777553.38        2.47430                    557249.40
3777553.38        2.38196
         557269.40    3777553.38        2.29804                    557289.40
3777553.38        2.22192
         557309.40    3777553.38        2.15226                    557329.40
3777553.38        2.08932
         557349.40    3777553.38        2.03438                    557369.40
3777553.38        1.98362
         557389.40    3777553.38        1.93280                    557409.40
3777553.38        1.88965
         557429.40    3777553.38        1.84768                    557449.40
3777553.38        1.80846
         557469.40    3777553.38        1.76784                    557489.40
3777553.38        1.72339
         557438.91    3777336.71        2.90922                    556615.91
3777136.99        8.94544
         556586.37    3777056.16        5.55728                    556672.35
3776929.14        4.60169
         556692.35    3776929.14        4.96195                    556712.35
3776929.14        5.32276
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         556732.35    3776929.14        5.65601                      556752.35
3776929.14        6.02196
         556772.35    3776929.14        6.44389                      556792.35
3776929.14        6.98286
         556812.35    3776929.14        7.65648                      556832.35
3776929.14        8.45399
         556852.35    3776929.14        9.67335                      556672.35
3776949.14        5.00013
         556692.35    3776949.14        5.43950                      556712.35
3776949.14        5.88975
         556732.35    3776949.14        6.31957                      556752.35
3776949.14        6.73931
         556772.35    3776949.14        7.24970                      556792.35
3776949.14        7.92317
         556812.35    3776949.14        8.73629                      556832.35
3776949.14        9.72819
         556852.35    3776949.14       11.27018                      556672.35
3776969.14        5.43389
         556692.35    3776969.14        5.97259                      556712.35
3776969.14        6.54331
         556732.35    3776969.14        7.10971                      556752.35
3776969.14        7.65047
         556772.35    3776969.14        8.25610                      556792.35
3776969.14        9.05670
         556812.35    3776969.14       10.04931                      556832.35
3776969.14       11.34184
         556852.35    3776969.14       13.33153                      556672.35
3776989.14        5.89956
         556692.35    3776989.14        6.56216                      556712.35
3776989.14        7.28418
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF TOG      IN MICROGRAMS/M**3
                 **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556732.35	3776989.14	8.02947	556752.35	3776989.14	8.75477
556772.35	3776989.14	9.50990	556792.35	3776989.14	10.48084
556812.35	3776989.14	11.70569	556832.35	3776989.14	13.38948
556852.35	3776989.14	16.05703	556672.35	3777009.14	6.41065
556692.35	3777009.14	7.20708	556712.35	3777009.14	8.12083
556732.35	3777009.14	9.09972	556752.35	3777009.14	10.09241
556772.35	3777009.14	11.09018	556792.35	3777009.14	12.29298
556812.35	3777009.14	13.83999	556832.35	3777009.14	16.06312
556852.35	3777009.14	19.76400	556672.35	3777029.14	7.06534
556692.35	3777029.14	7.94028	556712.35	3777029.14	9.06535
556732.35	3777029.14	10.34141	556752.35	3777029.14	11.71239
556772.35	3777029.14	13.09743	556792.35	3777029.14	14.65643
556812.35	3777029.14	16.66452	556832.35	3777029.14	19.72541
556852.35	3777029.14	24.98125	556672.35	3777049.14	8.01833
556692.35	3777049.14	8.90498	556712.35	3777049.14	10.17229
556732.35	3777049.14	11.78741	556752.35	3777049.14	13.67861
556772.35	3777049.14	15.67839	556792.35	3777049.14	17.81189
556812.35	3777049.14	20.56841	556832.35	3777049.14	24.89331
556852.35	3777049.14	32.67790	556927.54	3776959.53	26.21698
556947.54	3776959.53	27.52261	556967.54	3776959.53	25.12828
556987.54	3776959.53	20.12039	557007.54	3776959.53	14.91858
557027.54	3776959.53	11.17674	557047.54	3776959.53	9.03490
557067.54	3776959.53	7.89029	557087.54		

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3776959.53        7.19645
         556927.54    3776979.53       31.46515                       556947.54
3776979.53       30.95462
         556967.54    3776979.53       26.01500                       556987.54
3776979.53       19.43150
         557007.54    3776979.53       14.14012                       557027.54
3776979.53       11.00028
         557047.54    3776979.53        9.36718                       557067.54
3776979.53        8.43731
         557087.54    3776979.53        7.76443                       556927.54
3776999.53       37.32224
         556947.54    3776999.53       33.69958                       556967.54
3776999.53       25.91482
         556987.54    3776999.53       18.46547                       557007.54
3776999.53       13.75502
         557027.54    3776999.53       11.34339                       557047.54
3776999.53       10.05088
         557067.54    3776999.53        9.16504                       557087.54
3776999.53        8.42231
         556927.54    3777019.53       43.22754                       556947.54
3777019.53       35.20358
         556967.54    3777019.53       25.01414                       556987.54
3777019.53       17.79502
         557007.54    3777019.53       14.07975                       557027.54
3777019.53       12.21604
         557047.54    3777019.53       11.01104                       557067.54
3777019.53       10.02424
         557087.54    3777019.53        9.14381                       556927.54
3777039.53       48.24575
         556947.54    3777039.53       35.20785                       556967.54
3777039.53       24.03931
         556987.54    3777039.53       18.04760                       557007.54
3777039.53       15.21786
         557027.54    3777039.53       13.51638                       557047.54
3777039.53       12.16038
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557067.54	3777039.53	10.96432	557087.54	3777039.53	9.89869
557047.54	3777059.53	13.40773	557067.54	3777059.53	11.92991
557087.54	3777059.53	10.63901	556919.02	3777174.93	117.72474
556939.02	3777174.93	75.23153	556919.02	3777194.93	129.82344
556939.02	3777194.93	82.56952	556919.02	3777214.93	105.57219
556939.02	3777214.93	75.97167	556919.02	3777234.93	72.71187
556939.02	3777234.93	58.30516	556919.02	3777254.93	51.21270
556939.02	3777254.93	42.59045	557023.57	3777171.57	22.88457
557043.57	3777171.57	18.89884	557063.57	3777171.57	15.89141
557083.57	3777171.57	13.58638	557023.57	3777191.57	24.85341
557043.57	3777191.57	20.42627	557063.57	3777191.57	17.10117
557083.57	3777191.57	14.58933	557023.57	3777211.57	25.95949
557043.57	3777211.57	21.44574	557063.57	3777211.57	18.02806
557083.57	3777211.57	15.26526	557023.57	3777231.57	25.07937
557043.57	3777231.57	21.07253	557063.57	3777231.57	17.93651
557083.57	3777231.57	15.17187	557023.57	3777251.57	22.64944
557043.57	3777251.57	19.49441	557063.57	3777251.57	16.91561
557083.57	3777251.57	14.36711	556249.05	3776972.85	1.35089
556269.05	3776972.85	1.38899	556229.05	3776992.85	1.42554
556249.05	3776992.85	1.40318	556269.05	3776992.85	1.46737

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         556289.05    3776992.85        1.51632                      556309.05
3776992.85        1.57810
         556329.05    3776992.85        1.61253                      556209.05
3777012.85        1.40123
         556229.05    3777012.85        1.46403                      556249.05
3777012.85        1.53555
         556269.05    3777012.85        1.61369                      556289.05
3777012.85        1.66971
         556309.05    3777012.85        1.66628                      556329.05
3777012.85        1.75461
         556209.05    3777032.85        1.43716                      556229.05
3777032.85        1.50592
         556249.05    3777032.85        1.58128                      556269.05
3777032.85        1.66322
         556289.05    3777032.85        1.75368                      556309.05
3777032.85        1.84983
         556209.05    3777052.85        1.48507                      556229.05
3777052.85        1.55551
         556249.05    3777052.85        1.63490                      556269.05
3777052.85        1.71991
         556289.05    3777052.85        1.81309                      556309.05
3777052.85        1.91516
         556249.05    3777072.85        1.70023                      556269.05
3777072.85        1.78980
         556289.05    3777072.85        1.88653                      556269.05
3777092.85        1.87515
         556441.69    3776927.49        1.73472                      556461.69
3776927.49        1.77818
         556481.69    3776927.49        1.77174                      556421.69
3776947.49        1.83833
         556441.69    3776947.49        1.89678                      556461.69
3776947.49        1.98730
         556481.69    3776947.49        2.01916                      556401.69
3776967.49        1.80705
         556421.69    3776967.49        1.93119                      556441.69
3776967.49        2.01796
         556461.69    3776967.49        2.12824                      556481.69
3776967.49        2.25918
         556401.69    3776987.49        1.87123                      556421.69
3776987.49        1.97751
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: SPILL    ***
                                  INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556441.69    3776987.49        2.12552                       556461.69
3776987.49        2.27290
         556481.69    3776987.49        2.45646                       556421.69
3777007.49        2.05686
         556441.69    3777007.49        2.17842                       556461.69
3777007.49        2.34578
         556481.69    3777007.49        2.57569                       556441.69
3777027.49        2.29654
         556461.69    3777027.49        2.43166                       556481.69
3777027.49        2.67108
         556251.24    3777154.95        2.07198                       556261.28
3777141.20        2.07112
         556264.98    3777168.16        2.21037                       556279.25
3777151.77        2.23087
         556202.60    3777113.45        1.67104                       556220.05
3777109.75        1.72938
         556187.53    3777090.19        1.53143                       556164.27
3777121.38        1.55404
         557510.26    3776508.23        1.66064                       557530.26
3776508.23        1.61019
         557550.26    3776508.23        1.55801                       557570.26
3776508.23        1.50583
         557590.26    3776508.23        1.45602                       557610.26
3776508.23        1.40935
         557630.26    3776508.23        1.36250                       557650.26
3776508.23        1.31836
         557670.26    3776508.23        1.27385                       557690.26
3776508.23        1.23013
         557510.26    3776528.23        1.68387                       557530.26
3776528.23        1.62785
         557550.26    3776528.23        1.57283                       557570.26
3776528.23        1.51630
         557590.26    3776528.23        1.46501                       557610.26
3776528.23        1.41581
         557630.26    3776528.23        1.36918                       557650.26
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3776528.23        1.32502
         557670.26    3776528.23        1.27875                       557690.26
3776528.23        1.23637
         557510.26    3776548.23        1.69861                       557530.26
3776548.23        1.64219
         557550.26    3776548.23        1.57866                       557570.26
3776548.23        1.51957
         557590.26    3776548.23        1.46824                       557610.26
3776548.23        1.41763
         557630.26    3776548.23        1.37045                       557650.26
3776548.23        1.32691
         557670.26    3776548.23        1.28211                       557690.26
3776548.23        1.24136
         557510.26    3776568.23        1.70821                       557530.26
3776568.23        1.64771
         557550.26    3776568.23        1.58363                       557570.26
3776568.23        1.52073
         557590.26    3776568.23        1.46708                       557610.26
3776568.23        1.41579
         557630.26    3776568.23        1.36859                       557650.26
3776568.23        1.32704
         557670.26    3776568.23        1.28304                       557690.26
3776568.23        1.24166
         557510.26    3776588.23        1.71070                       557530.26
3776588.23        1.64986
         557550.26    3776588.23        1.58386                       557570.26
3776588.23        1.51697
         557590.26    3776588.23        1.45886                       557610.26
3776588.23        1.40791
         557630.26    3776588.23        1.36557                       557650.26
3776588.23        1.32428
         557670.26    3776588.23        1.28366                       557690.26
3776588.23        1.24548
         557510.26    3776608.23        1.70521                       557530.26
3776608.23        1.64386
         557550.26    3776608.23        1.57527                       557570.26
3776608.23        1.50993
         557590.26    3776608.23        1.44848                       557610.26
3776608.23        1.39852
         557630.26    3776608.23        1.35805                       557650.26
3776608.23        1.31758
         557670.26    3776608.23        1.27747                       557690.26
3776608.23        1.23945
         557510.26    3776628.23        1.69354                       557530.26
3776628.23        1.62926
 *** AERMOD - VERSION 24142  ***   ***
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08/25/25
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL ***

INCLUDING SOURCE(S): VOL2 , VOL4 , VOL6 , VOL8 , VOL9 , VOL12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557550.26	3776628.23	1.55756	557570.26	3776628.23	1.50690
557590.26	3776628.23	1.43589	557610.26	3776628.23	1.38681
557630.26	3776628.23	1.34480	557650.26	3776628.23	1.30952
557670.26	3776628.23	1.27115	557690.26	3776628.23	1.23600
557510.26	3776648.23	1.67156	557530.26	3776648.23	1.60090
557550.26	3776648.23	1.52922	557570.26	3776648.23	1.46044
557590.26	3776648.23	1.41281	557610.26	3776648.23	1.36265
557630.26	3776648.23	1.32612	557650.26	3776648.23	1.29484
557670.26	3776648.23	1.25673	557690.26	3776648.23	1.22384
557510.26	3776668.23	1.62770	557530.26	3776668.23	1.55900
557550.26	3776668.23	1.48764	557570.26	3776668.23	1.42223
557590.26	3776668.23	1.38796	557610.26	3776668.23	1.32434
557630.26	3776668.23	1.28925	557650.26	3776668.23	1.26626
557670.26	3776668.23	1.23482	557690.26	3776668.23	1.20317
557510.26	3776688.23	1.57351	557530.26	3776688.23	1.39004

```
         557550.26    3776688.23        1.34622                    557570.26
3776688.23        1.30488
         557590.26    3776688.23        1.26582                    557610.26
3776688.23        1.22900
         557630.26    3776688.23        1.19402                    557650.26
3776688.23        1.16072
         557670.26    3776688.23        1.12918                    557690.26
3776688.23        1.09911
         556172.49    3776517.81        0.35507                    556192.49
3776517.81        0.37572
         556212.49    3776517.81        0.38769                    556232.49
3776517.81        0.40227
         556252.49    3776517.81        0.41339                    556272.49
3776517.81        0.42593
         556292.49    3776517.81        0.43446                    556312.49
3776517.81        0.43971
         556332.49    3776517.81        0.44941                    556352.49
3776517.81        0.45414
         556372.49    3776517.81        0.45344                    556392.49
3776517.81        0.47122
         556412.49    3776517.81        0.48635                    556432.49
3776517.81        0.50101
         556452.49    3776517.81        0.51313                    556472.49
3776517.81        0.53611
         556492.49    3776517.81        0.55546                    556172.49
3776537.81        0.35927
         556192.49    3776537.81        0.37394                    556212.49
3776537.81        0.39239
         556232.49    3776537.81        0.40918                    556252.49
3776537.81        0.42442
         556272.49    3776537.81        0.43453                    556292.49
3776537.81        0.45116
         556312.49    3776537.81        0.46022                    556332.49
3776537.81        0.47097
         556352.49    3776537.81        0.47685                    556372.49
3776537.81        0.47790
         556392.49    3776537.81        0.48048                    556412.49
3776537.81        0.49977
         556432.49    3776537.81        0.51849                    556452.49
3776537.81        0.53131
         556472.49    3776537.81        0.55739                    556492.49
3776537.81        0.58097
         556332.49    3776557.81        0.49717                    556352.49
3776557.81        0.49704
         556372.49    3776557.81        0.50563                    556392.49
3776557.81        0.50891
         556412.49    3776557.81        0.52568                    556432.49
3776557.81        0.53977
         556452.49    3776557.81        0.55297                    556472.49
3776557.81        0.57770
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   , VOL4
, VOL6   , VOL8   , VOL9   ,
                VOL12   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         556492.49   3776557.81   0.60654   556332.49
3776577.81   0.51623
         556352.49   3776577.81   0.52739   556372.49
3776577.81   0.53420
         556392.49   3776577.81   0.54330   556412.49
3776577.81   0.55550
         556432.49   3776577.81   0.56390   556452.49
3776577.81   0.58084
         556472.49   3776577.81   0.60640   556492.49
3776577.81   0.63328
         556332.49   3776597.81   0.54324   556352.49
3776597.81   0.55572
         556372.49   3776597.81   0.56376   556392.49
3776597.81   0.56562
         556412.49   3776597.81   0.58350   556432.49
3776597.81   0.59115
         556452.49   3776597.81   0.59990   556472.49
3776597.81   0.62346
         556492.49   3776597.81   0.66038   556252.49
3776617.81   0.46659
         556272.49   3776617.81   0.48402   556292.49
3776617.81   0.50890
         556312.49   3776617.81   0.53818   556332.49
3776617.81   0.55509
         556352.49   3776617.81   0.58263   556372.49

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3776617.81        0.60055
         556392.49    3776617.81        0.60653                   556412.49
3776617.81        0.62016
         556432.49    3776617.81        0.62372                   556452.49
3776617.81        0.64018
         556472.49    3776617.81        0.64849                   556492.49
3776617.81        0.68775
         556252.49    3776637.81        0.48233                   556272.49
3776637.81        0.50521
         556292.49    3776637.81        0.52015                   556312.49
3776637.81        0.54419
         556332.49    3776637.81        0.57918                   556352.49
3776637.81        0.60387
         556372.49    3776637.81        0.63115                   556392.49
3776637.81        0.63969
         556412.49    3776637.81        0.65217                   556432.49
3776637.81        0.66134
         556452.49    3776637.81        0.66980                   556472.49
3776637.81        0.68775
         556492.49    3776637.81        0.71675                   556252.49
3776657.81        0.50825
         556272.49    3776657.81        0.52402                   556292.49
3776657.81        0.54398
         556312.49    3776657.81        0.55246                   556332.49
3776657.81        0.59237
         556352.49    3776657.81        0.62755                   556372.49
3776657.81        0.65944
         556392.49    3776657.81        0.66987                   556412.49
3776657.81        0.68427
         556432.49    3776657.81        0.69531                   556452.49
3776657.81        0.70740
         556472.49    3776657.81        0.72224                   556492.49
3776657.81        0.75043
         556252.49    3776677.81        0.53999                   556272.49
3776677.81        0.54052
         556292.49    3776677.81        0.55493                   556312.49
3776677.81        0.57640
         556332.49    3776677.81        0.60646                   556352.49
3776677.81        0.64459
         556372.49    3776677.81        0.67834                   556392.49
3776677.81        0.70054
         556412.49    3776677.81        0.72783                   556432.49
3776677.81        0.73403
         556452.49    3776677.81        0.74549                   556472.49
3776677.81        0.76489
         556492.49    3776677.81        0.79030                   556252.49
3776697.81        0.57850
         556272.49    3776697.81        0.57609                   556372.49
3776697.81        0.69625
         556392.49    3776697.81        0.71824                   556412.49
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3776697.81        0.75469
         556432.49    3776697.81        0.77354                       556452.49
3776697.81        0.78516
         556472.49    3776697.81        0.80686                       556492.49
3776697.81        0.83474
 *** AERMOD - VERSION 24142  ***   ***
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08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         556252.49    3776717.81        0.60863                       556272.49
3776717.81        0.61599
         556372.49    3776717.81        0.71392                       556392.49
3776717.81        0.73501
         556412.49    3776717.81        0.78104                       556432.49
3776717.81        0.81020
         556452.49    3776717.81        0.82983                       556472.49
3776717.81        0.87008
         556492.49    3776717.81        0.88475                       556267.40
3776875.81        1.15737
         556239.03    3776853.02        1.03711                       556178.76
3776751.21        0.75183
         556154.45    3776774.51        0.78694                       556119.50
3776705.11        0.62226
         556146.51    3777267.93        1.88426                       556151.00
3777234.88        1.80556
         556144.93    3777179.58        1.63543                       556205.18
3777236.46        2.10183
         556218.00    3777200.04        2.04506                       556773.51
3777349.00       23.48670
```

 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):   STCK2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
3777373.38        9.67795
         556589.40    3777373.38       10.85775                    556609.40
3777373.38       12.22242
         556629.40    3777373.38       13.87223                    556649.40
3777373.38       15.79712
         556669.40    3777373.38       18.12323                    556689.40
3777373.38       20.78377
         556709.40    3777373.38       23.35088                    556729.40
3777373.38       25.02896
         556749.40    3777373.38       25.16271                    556769.40
3777373.38       23.85420
         556789.40    3777373.38       22.96680                    556809.40
3777373.38       23.45378
         556829.40    3777373.38       24.52636                    556849.40
3777373.38       25.34001
         556869.40    3777373.38       25.56169                    556889.40
3777373.38       24.56224
         556909.40    3777373.38       22.38435                    556929.40
3777373.38       19.47695
         556949.40    3777373.38       16.59518                    556969.40
3777373.38       14.22092
         556989.40    3777373.38       12.45424                    557009.40
3777373.38       11.18831
         557029.40    3777373.38       10.27945                    557049.40
3777373.38        9.54266
         557069.40    3777373.38        8.88527                    557089.40
3777373.38        8.30744
         557109.40    3777373.38        7.77535                    557129.40
3777373.38        7.28344
         557149.40    3777373.38        6.82571                    557169.40
3777373.38        6.40556
         557189.40    3777373.38        6.02679                    557209.40
3777373.38        5.66907
         557229.40    3777373.38        5.32456                    557249.40
3777373.38        4.99976
         557269.40    3777373.38        4.69498                    557289.40
3777373.38        4.42384
         557309.40    3777373.38        4.17586                    557329.40
3777373.38        3.93165
         557349.40    3777373.38        3.71962                    557369.40
3777373.38        3.51581
         557389.40    3777373.38        3.32737                    557409.40
3777373.38        3.15280
         557429.40    3777373.38        2.98477                    557449.40
3777373.38        2.83637
         557469.40    3777373.38        2.69377                    557489.40
3777373.38        2.55104
         556509.40    3777393.38        6.99129                    556529.40
3777393.38        7.66760
         556549.40    3777393.38        8.45916                    556569.40
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3777393.38   9.37093
         556589.40   3777393.38   10.48526   556609.40
3777393.38   11.75833
 *** AERMOD - VERSION 24142 ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   13:24:37

                                 PAGE 58
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                               *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):   STCK2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         556629.40   3777393.38   13.29147   556649.40
3777393.38   14.97905
         556669.40   3777393.38   16.86830   556689.40
3777393.38   18.76076
         556709.40   3777393.38   20.28032   556729.40
3777393.38   20.67787
         556749.40   3777393.38   20.05864   556769.40
3777393.38   19.02651
         556789.40   3777393.38   18.69896   556809.40
3777393.38   19.25947
         556829.40   3777393.38   20.03850   556849.40
3777393.38   20.52543
         556869.40   3777393.38   20.67836   556889.40
3777393.38   20.26483
         556909.40   3777393.38   18.87967   556929.40
3777393.38   16.95788
         556949.40   3777393.38   14.71147   556969.40
3777393.38   12.73724
         556989.40   3777393.38   11.14910   557009.40
3777393.38   9.96232
         557029.40   3777393.38   9.06954   557049.40
3777393.38   8.39821
         557069.40   3777393.38   7.85347   557089.40
3777393.38   7.38257

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        557109.40    3777393.38        6.96331                    557129.40
3777393.38        6.54810
        557149.40    3777393.38        6.19247                    557169.40
3777393.38        5.84137
        557189.40    3777393.38        5.51776                    557209.40
3777393.38        5.23244
        557229.40    3777393.38        4.95820                    557249.40
3777393.38        4.68260
        557269.40    3777393.38        4.43036                    557289.40
3777393.38        4.19023
        557309.40    3777393.38        3.95542                    557329.40
3777393.38        3.75732
        557349.40    3777393.38        3.56360                    557369.40
3777393.38        3.38419
        557389.40    3777393.38        3.21545                    557409.40
3777393.38        3.05129
        557429.40    3777393.38        2.90074                    557449.40
3777393.38        2.76364
        557469.40    3777393.38        2.62825                    557489.40
3777393.38        2.49553
        556509.40    3777413.38        6.81962                    556529.40
3777413.38        7.47418
        556549.40    3777413.38        8.24015                    556569.40
3777413.38        9.12489
        556589.40    3777413.38       10.14416                    556609.40
3777413.38       11.31728
        556629.40    3777413.38       12.68101                    556649.40
3777413.38       14.10067
        556669.40    3777413.38       15.56742                    556689.40
3777413.38       16.76060
        556709.40    3777413.38       17.32717                    556729.40
3777413.38       17.01957
        556749.40    3777413.38       16.17537                    556769.40
3777413.38       15.65352
        556789.40    3777413.38       15.66478                    556809.40
3777413.38       16.19748
        556829.40    3777413.38       16.73070                    556849.40
3777413.38       17.10596
        556869.40    3777413.38       17.31636                    556889.40
3777413.38       17.00876
        556909.40    3777413.38       16.16369                    556929.40
3777413.38       14.90918
        556949.40    3777413.38       13.17164                    556969.40
3777413.38       11.52754
        556989.40    3777413.38       10.09936                    557009.40
3777413.38        8.99317
        557029.40    3777413.38        8.13506                    557049.40
3777413.38        7.50307
        557069.40    3777413.38        7.00946                    557089.40
3777413.38        6.59887
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         557109.40    3777413.38        6.24932                      557129.40
3777413.38        5.89811
         557149.40    3777413.38        5.61477                      557169.40
3777413.38        5.32150
         557189.40    3777413.38        5.06018                      557209.40
3777413.38        4.82242
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                  INCLUDING SOURCE(S):     STCK2       ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557229.40    3777413.38        4.58378                      557249.40
3777413.38        4.35931
         557269.40    3777413.38        4.14879                      557289.40
3777413.38        3.94695
         557309.40    3777413.38        3.75396                      557329.40
3777413.38        3.56635
         557349.40    3777413.38        3.40384                      557369.40
3777413.38        3.23449
         557389.40    3777413.38        3.08787                      557409.40
3777413.38        2.94665
         557429.40    3777413.38        2.80036                      557449.40
3777413.38        2.67370
         557469.40    3777413.38        2.55715                      557489.40
3777413.38        2.43742
         556509.40    3777433.38        6.65425                      556529.40
3777433.38        7.27532
         556549.40    3777433.38        7.98678                      556569.40
3777433.38        8.79579
         556589.40    3777433.38        9.76327                      556609.40
3777433.38       10.84089
         556629.40    3777433.38       12.01446                      556649.40
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3777433.38       13.17705
         556669.40    3777433.38       14.15286                  556689.40
3777433.38       14.75877
         556709.40    3777433.38       14.68002                  556729.40
3777433.38       14.13314
         556749.40    3777433.38       13.43344                  556769.40
3777433.38       13.22263
         556789.40    3777433.38       13.38890                  556809.40
3777433.38       13.79015
         556829.40    3777433.38       14.19044                  556849.40
3777433.38       14.44262
         556869.40    3777433.38       14.61949                  556889.40
3777433.38       14.46399
         556909.40    3777433.38       13.94624                  556929.40
3777433.38       13.03031
         556949.40    3777433.38       11.83948                  556969.40
3777433.38       10.48829
         556989.40    3777433.38        9.23719                  557009.40
3777433.38        8.25166
         557029.40    3777433.38        7.43490                  557049.40
3777433.38        6.82322
         557069.40    3777433.38        6.33877                  557089.40
3777433.38        5.95307
         557109.40    3777433.38        5.63904                  557129.40
3777433.38        5.34321
         557149.40    3777433.38        5.09639                  557169.40
3777433.38        4.84525
         557189.40    3777433.38        4.63174                  557209.40
3777433.38        4.43174
         557229.40    3777433.38        4.22469                  557249.40
3777433.38        4.04820
         557269.40    3777433.38        3.86925                  557289.40
3777433.38        3.69225
         557309.40    3777433.38        3.53812                  557329.40
3777433.38        3.37535
         557349.40    3777433.38        3.21290                  557369.40
3777433.38        3.07350
         557389.40    3777433.38        2.95539                  557409.40
3777433.38        2.83135
         557429.40    3777433.38        2.69550                  557449.40
3777433.38        2.58065
         557469.40    3777433.38        2.47022                  557489.40
3777433.38        2.36535
         556509.40    3777453.38        6.48195                  556529.40
3777453.38        7.07089
         556549.40    3777453.38        7.75234                  556569.40
3777453.38        8.50333
         556589.40    3777453.38        9.37824                  556609.40
3777453.38       10.30934
         556629.40    3777453.38       11.29806                  556649.40
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3777453.38       12.13324
         556669.40    3777453.38       12.65485                      556689.40
3777453.38       12.75519
         556709.40    3777453.38       12.37142                      556729.40
3777453.38       11.83946
         556749.40    3777453.38       11.42924                      556769.40
3777453.38       11.37594
         556789.40    3777453.38       11.59550                      556809.40
3777453.38       11.91505
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556829.40    3777453.38       12.25271                      556849.40
3777453.38       12.46698
         556869.40    3777453.38       12.62289                      556889.40
3777453.38       12.46548
         556909.40    3777453.38       12.13462                      556929.40
3777453.38       11.44273
         556949.40    3777453.38       10.58569                      556969.40
3777453.38        9.56330
         556989.40    3777453.38        8.52104                      557009.40
3777453.38        7.58940
         557029.40    3777453.38        6.83211                      557049.40
3777453.38        6.23982
         557069.40    3777453.38        5.78902                      557089.40
3777453.38        5.42488
         557109.40    3777453.38        5.13199                      557129.40
3777453.38        4.87029
         557149.40    3777453.38        4.65032                      557169.40
3777453.38        4.42570
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         557189.40    3777453.38        4.24048                    557209.40
3777453.38        4.07389
         557229.40    3777453.38        3.89887                    557249.40
3777453.38        3.75135
         557269.40    3777453.38        3.59782                    557289.40
3777453.38        3.45040
         557309.40    3777453.38        3.31679                    557329.40
3777453.38        3.18179
         557349.40    3777453.38        3.05401                    557369.40
3777453.38        2.91923
         557389.40    3777453.38        2.80341                    557409.40
3777453.38        2.70175
         557429.40    3777453.38        2.59212                    557449.40
3777453.38        2.48731
         557469.40    3777453.38        2.38457                    557489.40
3777453.38        2.28390
         556509.40    3777473.38        6.30803                    556529.40
3777473.38        6.84429
         556549.40    3777473.38        7.46894                    556569.40
3777473.38        8.19832
         556589.40    3777473.38        8.95331                    556609.40
3777473.38        9.72766
         556629.40    3777473.38       10.44829                    556649.40
3777473.38       10.97819
         556669.40    3777473.38       11.13855                    556689.40
3777473.38       10.92890
         556709.40    3777473.38       10.50184                    556729.40
3777473.38       10.09087
         556749.40    3777473.38        9.85811                    556769.40
3777473.38        9.93632
         556789.40    3777473.38       10.14404                    556809.40
3777473.38       10.40714
         556829.40    3777473.38       10.65823                    556849.40
3777473.38       10.87031
         556869.40    3777473.38       11.00054                    556889.40
3777473.38       10.88618
         556909.40    3777473.38       10.66311                    556929.40
3777473.38       10.20301
         556949.40    3777473.38        9.55510                    556969.40
3777473.38        8.75574
         556989.40    3777473.38        7.90170                    557009.40
3777473.38        7.09521
         557029.40    3777473.38        6.38121                    557049.40
3777473.38        5.79768
         557069.40    3777473.38        5.35276                    557089.40
3777473.38        4.99130
         557109.40    3777473.38        4.71120                    557129.40
3777473.38        4.46357
         557149.40    3777473.38        4.26739                    557169.40
3777473.38        4.06713
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         557189.40    3777473.38        3.90065                       557209.40
3777473.38        3.75030
         557229.40    3777473.38        3.60301                       557249.40
3777473.38        3.47575
         557269.40    3777473.38        3.34293                       557289.40
3777473.38        3.21807
         557309.40    3777473.38        3.10273                       557329.40
3777473.38        2.99198
         557349.40    3777473.38        2.87985                       557369.40
3777473.38        2.77313
         557389.40    3777473.38        2.66588                       557409.40
3777473.38        2.57033
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557429.40    3777473.38        2.47057                       557449.40
3777473.38        2.38617
         557469.40    3777473.38        2.29447                       557489.40
3777473.38        2.20452
         556509.40    3777493.38        6.13234                       556529.40
3777493.38        6.66536
         556549.40    3777493.38        7.24139                       556569.40
3777493.38        7.82035
         556589.40    3777493.38        8.45764                       556609.40
3777493.38        9.08583
         556629.40    3777493.38        9.53689                       556649.40
3777493.38        9.76475
         556669.40    3777493.38        9.73676                       556689.40
3777493.38        9.41165
         556709.40    3777493.38        9.01699                       556729.40
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3777493.38        8.76145
         556749.40    3777493.38        8.65668                    556769.40
3777493.38        8.78560
         556789.40    3777493.38        8.96762                    556809.40
3777493.38        9.15792
         556829.40    3777493.38        9.38022                    556849.40
3777493.38        9.53728
         556869.40    3777493.38        9.65503                    556889.40
3777493.38        9.60375
         556909.40    3777493.38        9.44668                    556929.40
3777493.38        9.11047
         556949.40    3777493.38        8.63125                    556969.40
3777493.38        8.00431
         556989.40    3777493.38        7.32838                    557009.40
3777493.38        6.64374
         557029.40    3777493.38        5.99399                    557049.40
3777493.38        5.43802
         557069.40    3777493.38        4.99657                    557089.40
3777493.38        4.63474
         557109.40    3777493.38        4.36499                    557129.40
3777493.38        4.12752
         557149.40    3777493.38        3.93522                    557169.40
3777493.38        3.76128
         557189.40    3777493.38        3.59939                    557209.40
3777493.38        3.46793
         557229.40    3777493.38        3.33582                    557249.40
3777493.38        3.21731
         557269.40    3777493.38        3.10776                    557289.40
3777493.38        3.00102
         557309.40    3777493.38        2.89633                    557329.40
3777493.38        2.79974
         557349.40    3777493.38        2.70730                    557369.40
3777493.38        2.61529
         557389.40    3777493.38        2.52898                    557409.40
3777493.38        2.44386
         557429.40    3777493.38        2.34915                    557449.40
3777493.38        2.27159
         557469.40    3777493.38        2.19819                    557489.40
3777493.38        2.12000
         556509.40    3777513.38        5.95354                    556529.40
3777513.38        6.43603
         556549.40    3777513.38        6.93623                    556569.40
3777513.38        7.53120
         556589.40    3777513.38        8.03756                    556609.40
3777513.38        8.41952
         556629.40    3777513.38        8.70869                    556649.40
3777513.38        8.71990
         556669.40    3777513.38        8.50993                    556689.40
3777513.38        8.14571
         556709.40    3777513.38        7.84724                    556729.40
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3777513.38        7.71328
         556749.40    3777513.38        7.70644                      556769.40
3777513.38        7.85529
         556789.40    3777513.38        8.01413                      556809.40
3777513.38        8.14673
         556829.40    3777513.38        8.31651                      556849.40
3777513.38        8.44344
         556869.40    3777513.38        8.54567                      556889.40
3777513.38        8.53919
         556909.40    3777513.38        8.40106                      556929.40
3777513.38        8.17667
         556949.40    3777513.38        7.82181                      556969.40
3777513.38        7.33727
         556989.40    3777513.38        6.78336                      557009.40
3777513.38        6.21476
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  62
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557029.40    3777513.38        5.64159                      557049.40
3777513.38        5.13443
         557069.40    3777513.38        4.69633                      557089.40
3777513.38        4.34297
         557109.40    3777513.38        4.06632                      557129.40
3777513.38        3.84061
         557149.40    3777513.38        3.65702                      557169.40
3777513.38        3.49463
         557189.40    3777513.38        3.34417                      557209.40
3777513.38        3.22389
         557229.40    3777513.38        3.09920                      557249.40
3777513.38        2.99767
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        557269.40    3777513.38        2.89541                    557289.40
3777513.38        2.79857
        557309.40    3777513.38        2.71168                    557329.40
3777513.38        2.62717
        557349.40    3777513.38        2.54392                    557369.40
3777513.38        2.46227
        557389.40    3777513.38        2.38730                    557409.40
3777513.38        2.31513
        557429.40    3777513.38        2.23740                    557449.40
3777513.38        2.16471
        557469.40    3777513.38        2.09613                    557489.40
3777513.38        2.02998
        556509.40    3777533.38        5.77026                    556529.40
3777533.38        6.22005
        556549.40    3777533.38        6.66914                    556569.40
3777533.38        7.10443
        556589.40    3777533.38        7.46928                    556609.40
3777533.38        7.71915
        556629.40    3777533.38        7.79829                    556649.40
3777533.38        7.68012
        556669.40    3777533.38        7.39152                    556689.40
3777533.38        7.10390
        556709.40    3777533.38        6.92168                    556729.40
3777533.38        6.87110
        556749.40    3777533.38        6.92633                    556769.40
3777533.38        7.05811
        556789.40    3777533.38        7.20525                    556809.40
3777533.38        7.30938
        556829.40    3777533.38        7.45295                    556849.40
3777533.38        7.53774
        556869.40    3777533.38        7.61670                    556889.40
3777533.38        7.63514
        556909.40    3777533.38        7.54628                    556929.40
3777533.38        7.36829
        556949.40    3777533.38        7.09611                    556969.40
3777533.38        6.71669
        556989.40    3777533.38        6.27740                    557009.40
3777533.38        5.80578
        557029.40    3777533.38        5.31363                    557049.40
3777533.38        4.85442
        557069.40    3777533.38        4.44620                    557089.40
3777533.38        4.10129
        557109.40    3777533.38        3.82305                    557129.40
3777533.38        3.60386
        557149.40    3777533.38        3.42388                    557169.40
3777533.38        3.26175
        557189.40    3777533.38        3.12210                    557209.40
3777533.38        3.00990
        557229.40    3777533.38        2.89010                    557249.40
3777533.38        2.79719
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         557269.40    3777533.38        2.70317                      557289.40
3777533.38        2.61859
         557309.40    3777533.38        2.53917                      557329.40
3777533.38        2.46373
         557349.40    3777533.38        2.39210                      557369.40
3777533.38        2.32025
         557389.40    3777533.38        2.24796                      557409.40
3777533.38        2.18706
         557429.40    3777533.38        2.12258                      557449.40
3777533.38        2.06154
         557469.40    3777533.38        1.99676                      557489.40
3777533.38        1.93523
         556509.40    3777553.38        5.59292                      556529.40
3777553.38        5.98462
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3777553.38        6.68795
         556589.40    3777553.38        6.93469                      556609.40
3777553.38        7.01907
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777553.38        6.96646                      556649.40
3777553.38        6.78117
         556669.40    3777553.38        6.48559                      556689.40
3777553.38        6.26301
         556709.40    3777553.38        6.16961                      556729.40
3777553.38        6.17991
         556749.40    3777553.38        6.24245                      556769.40
3777553.38        6.36532
         556789.40    3777553.38        6.50024                      556809.40
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3777553.38 6.59772
556829.40 3777553.38 6.70696 556849.40
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556869.40 3777553.38 6.85015 556889.40
3777553.38 6.87087
556909.40 3777553.38 6.81954 556929.40
3777553.38 6.70292
556949.40 3777553.38 6.45059 556969.40
3777553.38 6.16426
556989.40 3777553.38 5.79923 557009.40
3777553.38 5.41303
557029.40 3777553.38 4.99169 557049.40
3777553.38 4.59047
557069.40 3777553.38 4.21718 557089.40
3777553.38 3.88756
557109.40 3777553.38 3.60991 557129.40
3777553.38 3.39171
557149.40 3777553.38 3.21355 557169.40
3777553.38 3.05973
557189.40 3777553.38 2.92785 557209.40
3777553.38 2.81385
557229.40 3777553.38 2.70816 557249.40
3777553.38 2.61389
557269.40 3777553.38 2.52985 557289.40
3777553.38 2.45306
557309.40 3777553.38 2.38053 557329.40
3777553.38 2.31198
557349.40 3777553.38 2.24904 557369.40
3777553.38 2.18758
557389.40 3777553.38 2.12338 557409.40
3777553.38 2.06647
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3777553.38 1.95660
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3777553.38 1.84407
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3777136.99 8.04048
556586.37 3777056.16 4.02755 556672.35
3776929.14 4.16569
556692.35 3776929.14 4.44576 556712.35
3776929.14 4.73093
556732.35 3776929.14 5.01709 556752.35
3776929.14 5.35479
556772.35 3776929.14 5.72388 556792.35
3776929.14 6.19438
556812.35 3776929.14 6.82726 556832.35
3776929.14 7.58521
556852.35 3776929.14 8.67417 556672.35
3776949.14 4.51444
556692.35 3776949.14 4.85763 556712.35

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3776949.14        5.20179
         556732.35    3776949.14        5.54639                      556752.35
3776949.14        5.91181
         556772.35    3776949.14        6.36076                      556792.35
3776949.14        6.94769
         556812.35    3776949.14        7.68536                      556832.35
3776949.14        8.59508
         556852.35    3776949.14        9.92705                      556672.35
3776969.14        4.89342
         556692.35    3776969.14        5.31485                      556712.35
3776969.14        5.74898
         556732.35    3776969.14        6.18124                      556752.35
3776969.14        6.62354
         556772.35    3776969.14        7.14278                      556792.35
3776969.14        7.82855
         556812.35    3776969.14        8.69825                      556832.35
3776969.14        9.84144
         556852.35    3776969.14       11.49350                      556672.35
3776989.14        5.30785
         556692.35    3776989.14        5.81951                      556712.35
3776989.14        6.36791
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556732.35    3776989.14        6.92081                      556752.35
3776989.14        7.47753
         556772.35    3776989.14        8.09487                      556792.35
3776989.14        8.90574
         556812.35    3776989.14        9.94034                      556832.35
3776989.14       11.36529
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         556852.35    3776989.14       13.48501                    556672.35
3777009.14        5.76448
         556692.35    3777009.14        6.37677                    556712.35
3777009.14        7.06535
         556732.35    3777009.14        7.78079                    556752.35
3777009.14        8.50477
         556772.35    3777009.14        9.26995                    556792.35
3777009.14       10.23124
         556812.35    3777009.14       11.48530                    556832.35
3777009.14       13.27055
         556852.35    3777009.14       16.06398                    556672.35
3777029.14        6.30901
         556692.35    3777029.14        7.00734                    556712.35
3777029.14        7.85604
         556732.35    3777029.14        8.77682                    556752.35
3777029.14        9.74234
         556772.35    3777029.14       10.73588                    556792.35
3777029.14       11.90211
         556812.35    3777029.14       13.44483                    556832.35
3777029.14       15.76109
         556852.35    3777029.14       19.47624                    556672.35
3777049.14        7.00350
         556692.35    3777049.14        7.77317                    556712.35
3777049.14        8.76757
         556732.35    3777049.14        9.93537                    556752.35
3777049.14       11.23783
         556772.35    3777049.14       12.59041                    556792.35
3777049.14       14.05723
         556812.35    3777049.14       16.02484                    556832.35
3777049.14       19.06382
         556852.35    3777049.14       24.14780                    556927.54
3776959.53       21.08778
         556947.54    3776959.53       22.49014                    556967.54
3776959.53       21.83904
         556987.54    3776959.53       19.42396                    557007.54
3776959.53       16.10051
         557027.54    3776959.53       12.83461                    557047.54
3776959.53       10.20656
         557067.54    3776959.53        8.35008                    557087.54
3776959.53        7.12731
         556927.54    3776979.53       25.06666                    556947.54
3776979.53       25.81199
         556967.54    3776979.53       23.87507                    556987.54
3776979.53       20.14106
         557007.54    3776979.53       15.99533                    557027.54
3776979.53       12.49838
         557047.54    3776979.53       10.00135                    557067.54
3776979.53        8.37828
         557087.54    3776979.53        7.34374                    556927.54
3776999.53       29.90667
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3776999.53       25.52878
         556987.54    3776999.53       20.37149                       557007.54
3776999.53       15.65535
         557027.54    3776999.53       12.21664                       557047.54
3776999.53       10.00761
         557067.54    3776999.53        8.63892                       557087.54
3776999.53        7.74452
         556927.54    3777019.53       35.60713                       556947.54
3777019.53       32.69319
         556967.54    3777019.53       26.54962                       556987.54
3777019.53       20.14585
         557007.54    3777019.53       15.28524                       557027.54
3777019.53       12.18775
         557047.54    3777019.53       10.32842                       557067.54
3777019.53        9.15246
         557087.54    3777019.53        8.30944                       556927.54
3777039.53       41.95560
         556947.54    3777039.53       35.43638                       556967.54
3777039.53       26.77397
         556987.54    3777039.53       19.70348                       557007.54
3777039.53       15.20188
         557027.54    3777039.53       12.59321                       557047.54
3777039.53       11.00528
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         557067.54    3777039.53        9.89020                       557087.54
3777039.53        8.99380
         557047.54    3777059.53       11.99755                       557067.54
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3777059.53       10.78454
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         556939.02    3777174.93       69.27814                    556919.02
3777194.93      123.41078
         556939.02    3777194.93       79.81432                    556919.02
3777214.93      131.26562
         556939.02    3777214.93       85.66451                    556919.02
3777234.93      114.29725
         556939.02    3777234.93       79.84682                    556919.02
3777254.93       80.45889
         556939.02    3777254.93       63.15292                    557023.57
3777171.57       22.90532
         557043.57    3777171.57       19.01641                    557063.57
3777171.57       16.06101
         557083.57    3777171.57       13.76929                    557023.57
3777191.57       24.46761
         557043.57    3777191.57       20.16668                    557063.57
3777191.57       16.91758
         557083.57    3777191.57       14.45233                    557023.57
3777211.57       25.89001
         557043.57    3777211.57       21.28106                    557063.57
3777211.57       17.82280
         557083.57    3777211.57       15.05837                    557023.57
3777231.57       26.52021
         557043.57    3777231.57       21.87985                    557063.57
3777231.57       18.37347
         557083.57    3777231.57       15.39018                    557023.57
3777251.57       25.67708
         557043.57    3777251.57       21.48186                    557063.57
3777251.57       18.24247
         557083.57    3777251.57       15.23271                    556249.05
3776972.85        1.10860
         556269.05    3776972.85        1.15107                    556229.05
3776992.85        1.11348
         556249.05    3776992.85        1.14286                    556269.05
3776992.85        1.19559
         556289.05    3776992.85        1.24433                    556309.05
3776992.85        1.30118
         556329.05    3776992.85        1.34617                    556209.05
3777012.85        1.12972
         556229.05    3777012.85        1.14325                    556249.05
3777012.85        1.18771
         556269.05    3777012.85        1.24274                    556289.05
3777012.85        1.30232
         556309.05    3777012.85        1.35491                    556329.05
3777012.85        1.42576
         556209.05    3777032.85        1.15013                    556229.05
3777032.85        1.18986
         556249.05    3777032.85        1.23950                    556269.05
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3777032.85        1.42649
         556209.05    3777052.85        1.20063                       556229.05
3777052.85        1.23985
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3777052.85        1.36060
         556289.05    3777052.85        1.42694                       556309.05
3777052.85        1.50037
         556249.05    3777072.85        1.36225                       556269.05
3777072.85        1.43253
         556289.05    3777072.85        1.50221                       556269.05
3777092.85        1.51119
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3776927.49        1.38213
         556481.69    3776927.49        1.38151                       556421.69
3776947.49        1.47372
         556441.69    3776947.49        1.49312                       556461.69
3776947.49        1.54078
         556481.69    3776947.49        1.55323                       556401.69
3776967.49        1.51199
         556421.69    3776967.49        1.58664                       556441.69
3776967.49        1.62729
         556461.69    3776967.49        1.67853                       556481.69
3776967.49        1.74555
         556401.69    3776987.49        1.58105                       556421.69
3776987.49        1.65854
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  66
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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         556441.69    3776987.49        1.75450                    556461.69
3776987.49        1.83950
         556481.69    3776987.49        1.93914                    556421.69
3777007.49        1.72826
         556441.69    3777007.49        1.82365                    556461.69
3777007.49        1.94084
         556481.69    3777007.49        2.08709                    556441.69
3777027.49        1.90714
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3777027.49        2.19346
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3777151.77        2.13965
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3777121.38        1.50741
         557510.26    3776508.23        1.62415                    557530.26
3776508.23        1.58600
         557550.26    3776508.23        1.54724                    557570.26
3776508.23        1.50808
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3776508.23        1.35480
         557670.26    3776508.23        1.31680                    557690.26
3776508.23        1.27929
         557510.26    3776528.23        1.66250                    557530.26
3776528.23        1.62069
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3776528.23        1.53613
         557590.26    3776528.23        1.49480                    557610.26
3776528.23        1.45384
         557630.26    3776528.23        1.41357                    557650.26
3776528.23        1.37413
         557670.26    3776528.23        1.33418                    557690.26
3776528.23        1.29595
         557510.26    3776548.23        1.69850                    557530.26
3776548.23        1.65453
         557550.26    3776548.23        1.60745                    557570.26
3776548.23        1.56158
         557590.26    3776548.23        1.51817                    557610.26
3776548.23        1.47480
         557630.26    3776548.23        1.43263                    557650.26
3776548.23        1.39188
         557670.26    3776548.23        1.35117                    557690.26
3776548.23        1.31233
         557510.26    3776568.23        1.73328                    557530.26
3776568.23        1.68544
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         557550.26    3776568.23        1.63590                      557570.26
3776568.23        1.58654
         557590.26    3776568.23        1.54022                      557610.26
3776568.23        1.49478
         557630.26    3776568.23        1.45096                      557650.26
3776568.23        1.40935
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3776568.23        1.32767
         557510.26    3776588.23        1.76619                      557530.26
3776588.23        1.71558
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3776588.23        1.61023
         557590.26    3776588.23        1.56051                      557610.26
3776588.23        1.51341
         557630.26    3776588.23        1.46941                      557650.26
3776588.23        1.42646
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3776588.23        1.34448
         557510.26    3776608.23        1.79719                      557530.26
3776608.23        1.74359
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3776608.23        1.63337
         557590.26    3776608.23        1.58072                      557610.26
3776608.23        1.53216
         557630.26    3776608.23        1.48713                      557650.26
3776608.23        1.44311
         557670.26    3776608.23        1.40032                      557690.26
3776608.23        1.35930
         557510.26    3776628.23        1.82681                      557530.26
3776628.23        1.76943
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
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Y-COORD (M)        CONC
 - - -
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3776517.81        0.39627
         556372.49    3776517.81        0.39667                        556392.49
3776517.81        0.41174
         556412.49    3776517.81        0.42252                        556432.49
3776517.81        0.43222
         556452.49    3776517.81        0.44059                        556472.49
3776517.81        0.45927
         556492.49    3776517.81        0.47423                        556172.49
3776537.81        0.32574
         556192.49    3776537.81        0.33633                        556212.49
3776537.81        0.34792
         556232.49    3776537.81        0.35686                        556252.49
3776537.81        0.36521
         556272.49    3776537.81        0.37124                        556292.49
3776537.81        0.38567
         556312.49    3776537.81        0.39491                        556332.49
3776537.81        0.40635
         556352.49    3776537.81        0.41361                        556372.49
3776537.81        0.41626
         556392.49    3776537.81        0.41919                        556412.49
3776537.81        0.43484
         556432.49    3776537.81        0.44825                        556452.49
3776537.81        0.45639
         556472.49    3776537.81        0.47711                        556492.49
3776537.81        0.49583
         556332.49    3776557.81        0.42633                        556352.49
3776557.81        0.42818
         556372.49    3776557.81        0.43794                        556392.49
3776557.81        0.44243
         556412.49    3776557.81        0.45728                        556432.49
3776557.81        0.46754
         556452.49    3776557.81        0.47574                        556472.49
3776557.81        0.49440
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       13:24:37

                                PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF TOG      IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556492.49	3776557.81	0.51735	556332.49	3776577.81	0.44012
556352.49	3776577.81	0.45148	556372.49	3776577.81	0.45969
556392.49	3776577.81	0.46990	556412.49	3776577.81	0.48195
556432.49	3776577.81	0.48865	556452.49	3776577.81	0.50069
556472.49	3776577.81	0.51947	556492.49	3776577.81	0.53997
556332.49	3776597.81	0.46218	556352.49	3776597.81	0.47308
556372.49	3776597.81	0.48183	556392.49	3776597.81	0.48582
556412.49	3776597.81	0.50372	556432.49	3776597.81	0.51127
556452.49	3776597.81	0.51751	556472.49	3776597.81	0.53472
556492.49	3776597.81	0.56319	556252.49	3776617.81	0.41739
556272.49	3776617.81	0.42972	556292.49	3776617.81	0.44559
556312.49	3776617.81	0.46419	556332.49	3776617.81	0.47310
556352.49	3776617.81	0.49457	556372.49	3776617.81	0.51039
556392.49	3776617.81	0.51750	556412.49	3776617.81	0.53196
556432.49	3776617.81	0.53710	556452.49	3776617.81	0.55171
556472.49	3776617.81	0.55673	556492.49	3776617.81	0.58701
556252.49	3776637.81	0.42982	556272.49	3776637.81	0.44966
556292.49	3776637.81	0.46007	556312.49	3776637.81	0.47475
556332.49	3776637.81	0.49792	556352.49	3776637.81	0.51348
556372.49	3776637.81	0.53461	556392.49	3776637.81	0.54230
556412.49	3776637.81	0.55533	556432.49	3776637.81	0.56595
556452.49	3776637.81	0.57508	556472.49	3776637.81	0.59017

```
         556492.49    3776637.81        0.61226                      556252.49
3776657.81        0.44863
         556272.49    3776657.81        0.46493                      556292.49
3776657.81        0.48260
         556312.49    3776657.81        0.48678                      556332.49
3776657.81        0.51487
         556352.49    3776657.81        0.53766                      556372.49
3776657.81        0.55928
         556392.49    3776657.81        0.56553                      556412.49
3776657.81        0.57861
         556432.49    3776657.81        0.59061                      556452.49
3776657.81        0.60376
         556472.49    3776657.81        0.61792                      556492.49
3776657.81        0.64087
         556252.49    3776677.81        0.47139                      556272.49
3776677.81        0.47509
         556292.49    3776677.81        0.49038                      556312.49
3776677.81        0.50940
         556332.49    3776677.81        0.53199                      556352.49
3776677.81        0.55800
         556372.49    3776677.81        0.57897                      556392.49
3776677.81        0.59176
         556412.49    3776677.81        0.61281                      556432.49
3776677.81        0.61900
         556452.49    3776677.81        0.63159                      556472.49
3776677.81        0.65089
         556492.49    3776677.81        0.67336                      556252.49
3776697.81        0.49985
         556272.49    3776697.81        0.50061                      556372.49
3776697.81        0.60014
         556392.49    3776697.81        0.61022                      556412.49
3776697.81        0.63508
         556432.49    3776697.81        0.64888                      556452.49
3776697.81        0.66011
         556472.49    3776697.81        0.68165                      556492.49
3776697.81        0.70783
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
```

***

                                        ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         556252.49   3776717.81   0.52137   556272.49
3776717.81   0.52966
         556372.49   3776717.81   0.62058   556392.49
3776717.81   0.63061
         556412.49   3776717.81   0.66078   556432.49
3776717.81   0.67894
         556452.49   3776717.81   0.69356   556472.49
3776717.81   0.72948
         556492.49   3776717.81   0.74507   556267.40
3776875.81   0.97261
         556239.03   3776853.02   0.87390   556178.76
3776751.21   0.62249
         556154.45   3776774.51   0.65665   556119.50
3776705.11   0.52194
         556146.51   3777267.93   1.84056   556151.00
3777234.88   1.77021
         556144.93   3777179.58   1.59787   556205.18
3777236.46   2.05080
         556218.00   3777200.04   1.99195   556773.51
3777349.00   32.30833
↟ *** AERMOD - VERSION 24142 ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION 22112 ***   ***
                      ***   13:24:37

                                 PAGE 70
 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                             *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2
, VOL3   , VOL4   , VOL5   ,
                  VOL6   , VOL7   , VOL8   , VOL9   , VOL10
, VOL11   , VOL12   , STCK1   ,
                  STCK2   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF TOG   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556521.71	3777341.57	31.14950	556539.90	3777344.94	33.98879
556591.78	3777345.39	45.37637	556630.62	3777349.66	57.60384
556684.29	3777349.43	84.10122	556905.58	3777351.19	100.68113
556920.93	3777350.82	89.71222	556942.87	3777350.09	74.47125
556996.26	3777348.26	52.01521	557096.81	3777357.77	32.87914
557115.83	3777363.62	29.85323	557129.36	3777361.43	28.90252
557230.65	3777363.99	20.90204	556466.22	3776816.07	3.92220
556407.87	3776826.19	3.63330	556381.07	3776807.14	3.33225
556404.29	3776771.52	3.08265	556465.21	3776739.51	3.29914
556396.10	3776739.93	2.86424	556323.99	3777265.43	12.79901
556330.60	3777233.99	12.29772	556321.08	3777200.43	11.06091
556275.11	3777267.81	10.87759	556278.28	3777233.46	10.30615
556509.40	3777373.38	28.30542	556529.40	3777373.38	31.05640
556549.40	3777373.38	34.29863	556569.40	3777373.38	38.05692
556589.40	3777373.38	42.57184	556609.40	3777373.38	47.73810
556629.40	3777373.38	53.95574	556649.40	3777373.38	61.21488
556669.40	3777373.38	69.85723	556689.40	3777373.38	79.09574
556709.40	3777373.38	86.59248	556729.40	3777373.38	89.66697
556749.40	3777373.38	88.03875	556769.40	3777373.38	83.95390
556789.40	3777373.38	82.38713	556809.40	3777373.38	84.49168
556829.40	3777373.38	87.79224	556849.40	3777373.38	90.26792
556869.40	3777373.38	90.91693	556889.40	3777373.38	87.74744

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         556909.40    3777373.38       80.86388                       556929.40
3777373.38       71.27888
         556949.40    3777373.38       61.17242                       556969.40
3777373.38       52.41901
         556989.40    3777373.38       45.79446                       557009.40
3777373.38       41.09655
         557029.40    3777373.38       37.76351                       557049.40
3777373.38       35.07954
         557069.40    3777373.38       32.70625                       557089.40
3777373.38       30.65022
         557109.40    3777373.38       28.79286                       557129.40
3777373.38       27.10175
         557149.40    3777373.38       25.53884                       557169.40
3777373.38       24.10244
         557189.40    3777373.38       22.79889                       557209.40
3777373.38       21.55091
         557229.40    3777373.38       20.32930                       557249.40
3777373.38       19.16042
         557269.40    3777373.38       18.04902                       557289.40
3777373.38       17.05081
         557309.40    3777373.38       16.12998                       557329.40
3777373.38       15.21528
         557349.40    3777373.38       14.41770                       557369.40
3777373.38       13.64725
         557389.40    3777373.38       12.93262                       557409.40
3777373.38       12.26905
         557429.40    3777373.38       11.62887                       557449.40
3777373.38       11.06324
         557469.40    3777373.38       10.51893                       557489.40
3777373.38        9.97298
         556509.40    3777393.38       27.58287                       556529.40
3777393.38       30.20408
         556549.40    3777393.38       33.25972                       556569.40
3777393.38       36.74471
         556589.40    3777393.38       40.96533                       556609.40
3777393.38       45.77602
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  71
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL     ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                VOL6        , VOL7        , VOL8        , VOL9        , VOL10
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, VOL11       , VOL12       , STCK1       ,
                STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777393.38       51.59269                      556649.40
3777393.38       57.95165
         556669.40    3777393.38       64.72438                      556689.40
3777393.38       70.66024
         556709.40    3777393.38       74.17658                      556729.40
3777393.38       73.58304
         556749.40    3777393.38       70.81196                      556769.40
3777393.38       68.21858
         556789.40    3777393.38       68.04576                      556809.40
3777393.38       70.02764
         556829.40    3777393.38       72.42845                      556849.40
3777393.38       73.95685
         556869.40    3777393.38       74.42078                      556889.40
3777393.38       73.08343
         556909.40    3777393.38       68.65907                      556929.40
3777393.38       62.36695
         556949.40    3777393.38       54.56991                      556969.40
3777393.38       47.33009
         556989.40    3777393.38       41.33327                      557009.40
3777393.38       36.86115
         557029.40    3777393.38       33.55731                      557049.40
3777393.38       31.09285
         557069.40    3777393.38       29.08905                      557089.40
3777393.38       27.35913
         557109.40    3777393.38       25.83729                      557129.40
3777393.38       24.36022
         557149.40    3777393.38       23.11858                      557169.40
3777393.38       21.90592
         557189.40    3777393.38       20.79292                      557209.40
3777393.38       19.81170
         557229.40    3777393.38       18.85860                      557249.40
3777393.38       17.88501
         557269.40    3777393.38       16.98285                      557289.40
3777393.38       16.11215
         557309.40    3777393.38       15.24937                      557329.40
3777393.38       14.51622
         557349.40    3777393.38       13.79239                      557369.40
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3777393.38       13.11753
         557389.40    3777393.38       12.47933                       557409.40
3777393.38       11.85557
         557429.40    3777393.38       11.28191                       557449.40
3777393.38       10.75857
         557469.40    3777393.38       10.24061                       557489.40
3777393.38        9.73202
         556509.40    3777413.38       26.86023                       556529.40
3777413.38       29.38653
         556549.40    3777413.38       32.31083                       556569.40
3777413.38       35.66023
         556589.40    3777413.38       39.52175                       556609.40
3777413.38       43.99863
         556629.40    3777413.38       49.19078                       556649.40
3777413.38       54.40623
         556669.40    3777413.38       59.27004                       556689.40
3777413.38       62.35100
         556709.40    3777413.38       62.72350                       556729.40
3777413.38       60.60421
         556749.40    3777413.38       57.93318                       556769.40
3777413.38       57.02983
         556789.40    3777413.38       57.56864                       556809.40
3777413.38       59.30400
         556829.40    3777413.38       60.95761                       556849.40
3777413.38       62.18984
         556869.40    3777413.38       62.87691                       556889.40
3777413.38       61.83836
         556909.40    3777413.38       59.11333                       556929.40
3777413.38       55.04234
         556949.40    3777413.38       49.07770                       556969.40
3777413.38       43.10974
         556989.40    3777413.38       37.71759                       557009.40
3777413.38       33.49503
         557029.40    3777413.38       30.27260                       557049.40
3777413.38       27.93822
         557069.40    3777413.38       26.12031                       557089.40
3777413.38       24.59636
         557109.40    3777413.38       23.29298                       557129.40
3777413.38       22.00082
         557149.40    3777413.38       20.97301                       557169.40
3777413.38       19.93151
         557189.40    3777413.38       19.01896                       557209.40
3777413.38       18.19785
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***       13:24:37

                                PAGE  72
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                   VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                   STCK2       ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF TOG      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557229.40    3777413.38       17.37220                       557249.40
3777413.38       16.59151
         557269.40    3777413.38       15.85248                       557289.40
3777413.38       15.13466
         557309.40    3777413.38       14.43910                       557329.40
3777413.38       13.75379
         557349.40    3777413.38       13.15526                       557369.40
3777413.38       12.52372
         557389.40    3777413.38       11.97352                       557409.40
3777413.38       11.43985
         557429.40    3777413.38       10.88343                       557449.40
3777413.38       10.40023
         557469.40    3777413.38        9.95437                       557489.40
3777413.38        9.49501
         556509.40    3777433.38       26.16400                       556529.40
3777433.38       28.53053
         556549.40    3777433.38       31.22392                       556569.40
3777433.38       34.29793
         556589.40    3777433.38       38.00829                       556609.40
3777433.38       42.14856
         556629.40    3777433.38       46.54439                       556649.40
3777433.38       50.56684
         556669.40    3777433.38       53.34395                       556689.40
3777433.38       54.27302
         556709.40    3777433.38       52.86846                       556729.40
3777433.38       50.65482
         556749.40    3777433.38       48.82312                       556769.40
3777433.38       48.76881
         556789.40    3777433.38       49.54391                       556809.40
3777433.38       50.78655
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         556829.40    3777433.38       52.05606                    556849.40
3777433.38       52.91626
         556869.40    3777433.38       53.51078                    556889.40
3777433.38       52.95984
         556909.40    3777433.38       51.26689                    556929.40
3777433.38       48.28802
         556949.40    3777433.38       44.25970                    556969.40
3777433.38       39.41745
         556989.40    3777433.38       34.71940                    557009.40
3777433.38       30.92110
         557029.40    3777433.38       27.80163                    557049.40
3777433.38       25.51274
         557069.40    3777433.38       23.72993                    557089.40
3777433.38       22.30641
         557109.40    3777433.38       21.13094                    557129.40
3777433.38       20.01975
         557149.40    3777433.38       19.09411                    557169.40
3777433.38       18.17071
         557189.40    3777433.38       17.40029                    557209.40
3777433.38       16.69305
         557229.40    3777433.38       15.96844                    557249.40
3777433.38       15.35752
         557269.40    3777433.38       14.73527                    557289.40
3777433.38       14.11419
         557309.40    3777433.38       13.57071                    557329.40
3777433.38       12.98667
         557349.40    3777433.38       12.39540                    557369.40
3777433.38       11.88409
         557389.40    3777433.38       11.44789                    557409.40
3777433.38       10.98414
         557429.40    3777433.38       10.47087                    557449.40
3777433.38       10.03492
         557469.40    3777433.38        9.61357                    557489.40
3777433.38        9.21182
         556509.40    3777453.38       25.42139                    556529.40
3777453.38       27.65170
         556549.40    3777453.38       30.24817                    556569.40
3777453.38       33.14356
         556589.40    3777453.38       36.52985                    556609.40
3777453.38       40.07105
         556629.40    3777453.38       43.61616                    556649.40
3777453.38       46.19819
         556669.40    3777453.38       47.19781                    556689.40
3777453.38       46.53513
         556709.40    3777453.38       44.60119                    556729.40
3777453.38       42.90384
         556749.40    3777453.38       42.08918                    556769.40
3777453.38       42.33720
         556789.40    3777453.38       43.12607                    556809.40
3777453.38       44.09419
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2
, VOL3   , VOL4   , VOL5   ,
                  VOL6   , VOL7   , VOL8   , VOL9   , VOL10
, VOL11   , VOL12   , STCK1   ,
                  STCK2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
3777453.38       13.14901
         557309.40    3777453.38       12.68314                       557329.40
3777453.38       12.20725
         557349.40    3777453.38       11.75248                       557369.40
3777453.38       11.26483
         557389.40    3777453.38       10.84287                       557409.40
3777453.38       10.46952
         557429.40    3777453.38       10.06119                       557449.40
3777453.38        9.66735
         557469.40    3777453.38        9.27818                       557489.40
3777453.38        8.89441
         556509.40    3777473.38       24.67559                       556529.40
3777473.38       26.72495
         556549.40    3777473.38       29.14358                       556569.40
3777473.38       31.98302
         556589.40    3777473.38       34.88940                       556609.40
3777473.38       37.73475
         556629.40    3777473.38       40.10983                       556649.40
3777473.38       41.42654
         556669.40    3777473.38       41.17061                       556689.40
3777473.38       39.74341
         556709.40    3777473.38       38.08387                       556729.40
3777473.38       37.02194
         556749.40    3777473.38       36.71532                       556769.40
3777473.38       37.21289
         556789.40    3777473.38       37.87761                       556809.40
3777473.38       38.67667
         556829.40    3777473.38       39.52172                       556849.40
3777473.38       40.29218
         556869.40    3777473.38       40.75130                       556889.40
3777473.38       40.31846
         556909.40    3777473.38       39.54967                       556929.40
3777473.38       38.03743
         556949.40    3777473.38       35.88966                       556969.40
3777473.38       33.11150
         556989.40    3777473.38       29.97770                       557009.40
3777473.38       26.88931
         557029.40    3777473.38       24.10484                       557049.40
3777473.38       21.84463
         557069.40    3777473.38       20.15930                       557089.40
3777473.38       18.82399
         557109.40    3777473.38       17.79525                       557129.40
3777473.38       16.87588
         557149.40    3777473.38       16.13093                       557169.40
3777473.38       15.36678
         557189.40    3777473.38       14.72851                       557209.40
3777473.38       14.15842
         557229.40    3777473.38       13.61144                       557249.40
3777473.38       13.14856
         557269.40    3777473.38       12.67426                       557289.40
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         556749.40    3777493.38       32.50963                    556769.40
3777493.38       33.04661
         556789.40    3777493.38       33.59083                    556809.40
3777493.38       34.16485
         556829.40    3777493.38       34.93705                    556849.40
3777493.38       35.52517
         556869.40    3777493.38       35.94842                    556889.40
3777493.38       35.73569
         556909.40    3777493.38       35.17409                    556929.40
3777493.38       34.05426
         556949.40    3777493.38       32.47482                    556969.40
3777493.38       30.32600
         556989.40    3777493.38       27.88653                    557009.40
3777493.38       25.29125
         557029.40    3777493.38       22.75591                    557049.40
3777493.38       20.57495
         557069.40    3777493.38       18.86984                    557089.40
3777493.38       17.51267
         557109.40    3777493.38       16.52043                    557129.40
3777493.38       15.64933
         557149.40    3777493.38       14.93183                    557169.40
3777493.38       14.27008
         557189.40    3777493.38       13.64714                    557209.40
3777493.38       13.13686
         557229.40    3777493.38       12.63152                    557249.40
3777493.38       12.18521
         557269.40    3777493.38       11.78128                    557289.40
3777493.38       11.39570
         557309.40    3777493.38       11.02336                    557329.40
3777493.38       10.68389
         557349.40    3777493.38       10.36064                    557369.40
3777493.38       10.03789
         557389.40    3777493.38        9.73399                    557409.40
3777493.38        9.43132
         557429.40    3777493.38        9.08845                    557449.40
3777493.38        8.80683
         557469.40    3777493.38        8.53762                    557489.40
3777493.38        8.24685
         556509.40    3777513.38       23.26794                    556529.40
3777513.38       25.16758
         556549.40    3777513.38       27.12923                    556569.40
3777513.38       29.39427
         556589.40    3777513.38       31.19481                    556609.40
3777513.38       32.33239
         556629.40    3777513.38       32.90737                    556649.40
3777513.38       32.36459
         556669.40    3777513.38       31.17065                    556689.40
3777513.38       29.80560
         556709.40    3777513.38       29.02001                    556729.40
3777513.38       28.91654
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         556749.40    3777513.38       29.11040                      556769.40
3777513.38       29.63564
         556789.40    3777513.38       30.09603                      556809.40
3777513.38       30.49355
         556829.40    3777513.38       31.09888                      556849.40
3777513.38       31.58654
         556869.40    3777513.38       31.96048                      556889.40
3777513.38       31.90832
         556909.40    3777513.38       31.39735                      556929.40
3777513.38       30.64109
         556949.40    3777513.38       29.47400                      556969.40
3777513.38       27.83409
         556989.40    3777513.38       25.86819                      557009.40
3777513.38       23.74366
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         557029.40    3777513.38       21.51875                      557049.40
3777513.38       19.51387
         557069.40    3777513.38       17.79528                      557089.40
3777513.38       16.44164
         557109.40    3777513.38       15.41131                      557129.40
3777513.38       14.58525
         557149.40    3777513.38       13.91090                      557169.40
3777513.38       13.30316
         557189.40    3777513.38       12.72879                      557209.40
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3777513.38       12.25970
         557229.40    3777513.38       11.77549                  557249.40
3777513.38       11.38116
         557269.40    3777513.38       10.99183                  557289.40
3777513.38       10.63045
         557309.40    3777513.38       10.31277                  557329.40
3777513.38       10.00951
         557349.40    3777513.38        9.71456                  557369.40
3777513.38        9.42716
         557389.40    3777513.38        9.16461                  557409.40
3777513.38        8.91135
         557429.40    3777513.38        8.63489                  557449.40
3777513.38        8.37458
         557469.40    3777513.38        8.12686                  557489.40
3777513.38        7.88538
         556509.40    3777533.38       22.58487                  556529.40
3777533.38       24.35670
         556549.40    3777533.38       26.08866                  556569.40
3777533.38       27.67963
         556589.40    3777533.38       28.85962                  556609.40
3777533.38       29.43281
         556629.40    3777533.38       29.24462                  556649.40
3777533.38       28.36807
         556669.40    3777533.38       27.12448                  556689.40
3777533.38       26.20545
         556709.40    3777533.38       25.86172                  556729.40
3777533.38       25.96430
         556749.40    3777533.38       26.26945                  556769.40
3777533.38       26.69041
         556789.40    3777533.38       27.12073                  556809.40
3777533.38       27.44024
         556829.40    3777533.38       27.96532                  556849.40
3777533.38       28.30542
         556869.40    3777533.38       28.60004                  556889.40
3777533.38       28.64014
         556909.40    3777533.38       28.29589                  556929.40
3777533.38       27.67990
         556949.40    3777533.38       26.77991                  556969.40
3777533.38       25.50637
         556989.40    3777533.38       23.97331                  557009.40
3777533.38       22.24104
         557029.40    3777533.38       20.34984                  557049.40
3777533.38       18.53460
         557069.40    3777533.38       16.91270                  557089.40
3777533.38       15.56440
         557109.40    3777533.38       14.50727                  557129.40
3777533.38       13.69711
         557149.40    3777533.38       13.04052                  557169.40
3777533.38       12.44451
         557189.40    3777533.38       11.92028                  557209.40
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3777533.38       11.48750
         557229.40    3777533.38       11.02228                       557249.40
3777533.38       10.65581
         557269.40    3777533.38       10.28923                       557289.40
3777533.38        9.96331
         557309.40    3777533.38        9.66311                       557329.40
3777533.38        9.38392
         557349.40    3777533.38        9.12409                       557369.40
3777533.38        8.86726
         557389.40    3777533.38        8.61096                       557409.40
3777533.38        8.39784
         557429.40    3777533.38        8.17096                       557449.40
3777533.38        7.95572
         557469.40    3777533.38        7.72434                       557489.40
3777533.38        7.50284
         556509.40    3777553.38       21.92432                       556529.40
3777553.38       23.44958
         556549.40    3777553.38       24.80756                       556569.40
3777553.38       25.96419
         556589.40    3777553.38       26.63097                       556609.40
3777553.38       26.56540
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF TOG      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         556629.40    3777553.38       25.96044                       556649.40
3777553.38       25.00014
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         556669.40    3777553.38       23.91501                    556689.40
3777553.38       23.32206
         556709.40    3777553.38       23.26518                    556729.40
3777553.38       23.49057
         556749.40    3777553.38       23.74700                    556769.40
3777553.38       24.11780
         556789.40    3777553.38       24.52109                    556809.40
3777553.38       24.83589
         556829.40    3777553.38       25.24639                    556849.40
3777553.38       25.56148
         556869.40    3777553.38       25.81120                    556889.40
3777553.38       25.86298
         556909.40    3777553.38       25.64900                    556929.40
3777553.38       25.23601
         556949.40    3777553.38       24.38108                    556969.40
3777553.38       23.42835
         556989.40    3777553.38       22.16907                    557009.40
3777553.38       20.77592
         557029.40    3777553.38       19.17967                    557049.40
3777553.38       17.60209
         557069.40    3777553.38       16.11002                    557089.40
3777553.38       14.80036
         557109.40    3777553.38       13.72287                    557129.40
3777553.38       12.90090
         557149.40    3777553.38       12.24706                    557169.40
3777553.38       11.68699
         557189.40    3777553.38       11.20110                    557209.40
3777553.38       10.77115
         557229.40    3777553.38       10.36368                    557249.40
3777553.38        9.99402
         557269.40    3777553.38        9.66178                    557289.40
3777553.38        9.35905
         557309.40    3777553.38        9.07677                    557329.40
3777553.38        8.81480
         557349.40    3777553.38        8.57902                    557369.40
3777553.38        8.35358
         557389.40    3777553.38        8.12175                    557409.40
3777553.38        7.91945
         557429.40    3777553.38        7.72023                    557449.40
3777553.38        7.53254
         557469.40    3777553.38        7.33995                    557489.40
3777553.38        7.13317
         557438.91    3777336.71       11.85847                    556615.91
3777136.99       34.06171
         556586.37    3777056.16       19.16735                    556672.35
3776929.14       17.54427
         556692.35    3776929.14       18.82016                    556712.35
3776929.14       20.10895
         556732.35    3776929.14       21.35766                    556752.35
3776929.14       22.78289
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         556772.35    3776929.14       24.37551                      556792.35
3776929.14       26.40650
         556812.35    3776929.14       29.06393                      556832.35
3776929.14       32.25764
         556852.35    3776929.14       36.97382                      556672.35
3776949.14       19.03890
         556692.35    3776949.14       20.60247                      556712.35
3776949.14       22.18558
         556732.35    3776949.14       23.73813                      556752.35
3776949.14       25.32716
         556772.35    3776949.14       27.26352                      556792.35
3776949.14       29.80048
         556812.35    3776949.14       32.95121                      556832.35
3776949.14       36.85311
         556852.35    3776949.14       42.72448                      556672.35
3776969.14       20.66445
         556692.35    3776969.14       22.58487                      556712.35
3776969.14       24.59013
         556732.35    3776969.14       26.58491                      556752.35
3776969.14       28.56627
         556772.35    3776969.14       30.84012                      556792.35
3776969.14       33.83580
         556812.35    3776969.14       37.61619                      556832.35
3776969.14       42.60684
         556852.35    3776969.14       50.04482                      556672.35
3776989.14       22.43256
         556692.35    3776989.14       24.77461                      556712.35
3776989.14       27.31270
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                    VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                    STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF TOG      IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556732.35	3776989.14	29.90343	556752.35	3776989.14	32.47542
556772.35	3776989.14	35.24768	556792.35	3776989.14	38.84334
556812.35	3776989.14	43.42791	556832.35	3776989.14	49.79035
556852.35	3776989.14	59.56052	556672.35	3777009.14	24.39160
556692.35	3777009.14	27.18875	556712.35	3777009.14	30.38395
556732.35	3777009.14	33.76591	556752.35	3777009.14	37.19903
556772.35	3777009.14	40.74997	556792.35	3777009.14	45.11975
556812.35	3777009.14	50.80201	556832.35	3777009.14	58.99628
556852.35	3777009.14	72.23338	556672.35	3777029.14	26.81916
556692.35	3777029.14	29.94529	556712.35	3777029.14	33.86728
556732.35	3777029.14	38.24563	556752.35	3777029.14	42.91058
556772.35	3777029.14	47.68575	556792.35	3777029.14	53.18417
556812.35	3777029.14	60.38668	556832.35	3777029.14	71.36332
556852.35	3777029.14	89.61456	556672.35	3777049.14	30.10962
556692.35	3777049.14	33.43960	556712.35	3777049.14	37.94067
556732.35	3777049.14	43.47195	556752.35	3777049.14	49.83443
556772.35	3777049.14	56.54181	556792.35	3777049.14	63.79199
556812.35	3777049.14	73.36488	556832.35	3777049.14	88.38578
556852.35	3777049.14	114.49869	556927.54	3776959.53	94.28003
556947.54	3776959.53	99.16214	556967.54	3776959.53	93.06435
556987.54	3776959.53	78.70543	557007.54	3776959.53	62.13771
557027.54	3776959.53	48.27468	557047.54	3776959.53	38.64399
557067.54	3776959.53	32.51115	557087.54		

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3776959.53       28.60239
         556927.54    3776979.53      112.38908                       556947.54
3776979.53      112.47496
         556967.54    3776979.53       99.06952                       556987.54
3776979.53       79.07515
         557007.54    3776979.53       60.52866                       557027.54
3776979.53       47.20978
         557047.54    3776979.53       38.79385                       557067.54
3776979.53       33.58720
         557087.54    3776979.53       30.14174                       556927.54
3776999.53      133.40481
         556947.54    3776999.53      124.92440                       556967.54
3776999.53      102.51588
         556987.54    3776999.53       77.88128                       557007.54
3776999.53       59.09010
         557027.54    3776999.53       47.21369                       557047.54
3776999.53       40.07604
         557067.54    3776999.53       35.52286                       557087.54
3776999.53       32.25314
         556927.54    3777019.53      156.33331                       556947.54
3777019.53      134.97236
         556967.54    3777019.53      103.16767                       556987.54
3777019.53       76.19960
         557007.54    3777019.53       58.87461                       557027.54
3777019.53       48.77186
         557047.54    3777019.53       42.57962                       557067.54
3777019.53       38.25687
         557087.54    3777019.53       34.82986                       556927.54
3777039.53      179.05857
         556947.54    3777039.53      140.96043                       556967.54
3777039.53      101.94634
         556987.54    3777039.53       75.71389                       557007.54
3777039.53       60.81255
         557027.54    3777039.53       52.09955                       557047.54
3777039.53       46.21178
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  78
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
```

STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
557067.54	3777039.53	41.61249	557087.54	3777039.53	37.70842
557047.54	3777059.53	50.68456	557067.54	3777059.53	45.32714
557087.54	3777059.53	40.67656	556919.02	3777174.93	435.65266
556939.02	3777174.93	289.14237	556919.02	3777194.93	504.03495
556939.02	3777194.93	323.68795	556919.02	3777214.93	471.30240
556939.02	3777214.93	321.86238	556919.02	3777234.93	373.07548
556939.02	3777234.93	275.59742	556919.02	3777254.93	263.06305
556939.02	3777254.93	211.24836	557023.57	3777171.57	91.84026
557043.57	3777171.57	76.06228	557063.57	3777171.57	64.10661
557083.57	3777171.57	54.88933	557023.57	3777191.57	98.61072
557043.57	3777191.57	81.17187	557063.57	3777191.57	68.03267
557083.57	3777191.57	58.08750	557023.57	3777211.57	103.42157
557043.57	3777211.57	85.23612	557063.57	3777211.57	71.52622
557083.57	3777211.57	60.49595	557023.57	3777231.57	102.96358
557043.57	3777231.57	85.71314	557063.57	3777231.57	72.45618
557083.57	3777231.57	60.96610	557023.57	3777251.57	96.49296
557043.57	3777251.57	81.82979	557063.57	3777251.57	70.22037
557083.57	3777251.57	59.10218	556249.05	3776972.85	4.87224
556269.05	3776972.85	5.03718	556229.05	3776992.85	5.08204

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         556249.05    3776992.85        5.04025                        556269.05
3776992.85        5.27278
         556289.05    3776992.85        5.47076                        556309.05
3776992.85        5.70951
         556329.05    3776992.85        5.87521                        556209.05
3777012.85        5.06908
         556229.05    3777012.85        5.22103                        556249.05
3777012.85        5.45253
         556269.05    3777012.85        5.71869                        556289.05
3777012.85        5.95392
         556309.05    3777012.85        5.98369                        556329.05
3777012.85        6.29978
         556209.05    3777032.85        5.18666                        556229.05
3777032.85        5.40311
         556249.05    3777032.85        5.65252                        556269.05
3777032.85        5.92641
         556289.05    3777032.85        6.24428                        556309.05
3777032.85        6.56178
         556209.05    3777052.85        5.38715                        556229.05
3777052.85        5.60671
         556249.05    3777052.85        5.89014                        556269.05
3777052.85        6.17712
         556289.05    3777052.85        6.49594                        556309.05
3777052.85        6.84653
         556249.05    3777072.85        6.14328                        556269.05
3777072.85        6.46397
         556289.05    3777072.85        6.79765                        556269.05
3777092.85        6.79089
         556441.69    3776927.49        6.12682                        556461.69
3776927.49        6.27619
         556481.69    3776927.49        6.27061                        556421.69
3776947.49        6.56730
         556441.69    3776947.49        6.71999                        556461.69
3776947.49        6.99440
         556481.69    3776947.49        7.08873                        556401.69
3776967.49        6.59667
         556421.69    3776967.49        6.98439                        556441.69
3776967.49        7.23202
         556461.69    3776967.49        7.54665                        556481.69
3776967.49        7.93579
         556401.69    3776987.49        6.86820                        556421.69
3776987.49        7.23129
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , STCK1 , STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
556441.69	3776987.49	7.70898	556461.69	3776987.49	8.16217
556481.69	3776987.49	8.71345	556421.69	3777007.49	7.53084
556441.69	3777007.49	7.96233	556461.69	3777007.49	8.52269
556481.69	3777007.49	9.25798	556441.69	3777027.49	8.35928
556461.69	3777027.49	8.85359	556481.69	3777027.49	9.67021
556251.24	3777154.95	8.13988	556261.28	3777141.20	8.13055
556264.98	3777168.16	8.68757	556279.25	3777151.77	8.75062
556202.60	3777113.45	6.58971	556220.05	3777109.75	6.82166
556187.53	3777090.19	6.06783	556164.27	3777121.38	6.12990
557510.26	3776508.23	6.55877	557530.26	3776508.23	6.38541
557550.26	3776508.23	6.20746	557570.26	3776508.23	6.02850
557590.26	3776508.23	5.85452	557610.26	3776508.23	5.68754
557630.26	3776508.23	5.51902	557650.26	3776508.23	5.35693
557670.26	3776508.23	5.19377	557690.26	3776508.23	5.03307
557510.26	3776528.23	6.68636	557530.26	3776528.23	6.49491
557550.26	3776528.23	6.30526	557570.26		

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3776528.23        6.11038
         557590.26    3776528.23        5.92804                    557610.26
3776528.23        5.75015
         557630.26    3776528.23        5.57828                    557650.26
3776528.23        5.41257
         557670.26    3776528.23        5.24195                    557690.26
3776528.23        5.08202
         557510.26    3776548.23        6.79370                    557530.26
3776548.23        6.59670
         557550.26    3776548.23        6.38001                    557570.26
3776548.23        6.17383
         557590.26    3776548.23        5.98679                    557610.26
3776548.23        5.80103
         557630.26    3776548.23        5.62395                    557650.26
3776548.23        5.45638
         557670.26    3776548.23        5.28668                    557690.26
3776548.23        5.12825
         557510.26    3776568.23        6.88934                    557530.26
3776568.23        6.67646
         557550.26    3776568.23        6.45333                    557570.26
3776568.23        6.23264
         557590.26    3776568.23        6.03501                    557610.26
3776568.23        5.84343
         557630.26    3776568.23        5.66262                    557650.26
3776568.23        5.49663
         557670.26    3776568.23        5.32621                    557690.26
3776568.23        5.16396
         557510.26    3776588.23        6.96839                    557530.26
3776588.23        6.74873
         557550.26    3776588.23        6.51546                    557570.26
3776588.23        6.28014
         557590.26    3776588.23        6.06708                    557610.26
3776588.23        5.87236
         557630.26    3776588.23        5.69966                    557650.26
3776588.23        5.53109
         557670.26    3776588.23        5.36609                    557690.26
3776588.23        5.20912
         557510.26    3776608.23        7.02936                    557530.26
3776608.23        6.80210
         557550.26    3776608.23        6.55714                    557570.26
3776608.23        6.32092
         557590.26    3776608.23        6.09547                    557610.26
3776608.23        5.89920
         557630.26    3776608.23        5.72734                    557650.26
3776608.23        5.55766
         557670.26    3776608.23        5.39134                    557690.26
3776608.23        5.23254
         557510.26    3776628.23        7.07686                    557530.26
3776628.23        6.83600
 *** AERMOD - VERSION 24142  ***   ***
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE PERIOD (43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   VOL1   , VOL2
, VOL3   , VOL4   , VOL5   ,
                  VOL6   , VOL7   , VOL8   , VOL9   , VOL10
, VOL11   , VOL12   , STCK1   ,
                  STCK2   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         557550.26   3776628.23   6.57814   557570.26
3776628.23   6.37210
         557590.26   3776628.23   6.11978   557610.26
3776628.23   5.92177
         557630.26   3776628.23   5.74290   557650.26
3776628.23   5.58237
         557670.26   3776628.23   5.41755   557690.26
3776628.23   5.26316
         557510.26   3776648.23   7.10083   557530.26
3776648.23   6.83842
         557550.26   3776648.23   6.57579   557570.26
3776648.23   6.32300
         557590.26   3776648.23   6.12183   557610.26
3776648.23   5.91796
         557630.26   3776648.23   5.74819   557650.26
3776648.23   5.59357
         557670.26   3776648.23   5.42686   557690.26
3776648.23   5.27524
         557510.26   3776668.23   7.07773   557530.26
3776668.23   6.81499
         557550.26   3776668.23   6.54970   557570.26
3776668.23   6.30162
         557590.26   3776668.23   6.12542   557610.26
3776668.23   5.88928

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         557630.26    3776668.23        5.71889                    557650.26
3776668.23        5.57844
         557670.26    3776668.23        5.42360                    557690.26
3776668.23        5.27203
         557510.26    3776688.23        7.04197                    557530.26
3776688.23        6.44942
         557550.26    3776688.23        6.23174                    557570.26
3776688.23        6.02815
         557590.26    3776688.23        5.83881                    557610.26
3776688.23        5.65615
         557630.26    3776688.23        5.48838                    557650.26
3776688.23        5.33260
         557670.26    3776688.23        5.17766                    557690.26
3776688.23        5.02691
         556172.49    3776517.81        1.34870                    556192.49
3776517.81        1.41555
         556212.49    3776517.81        1.44692                    556232.49
3776517.81        1.49030
         556252.49    3776517.81        1.52607                    556272.49
3776517.81        1.57315
         556292.49    3776517.81        1.60872                    556312.49
3776517.81        1.63317
         556332.49    3776517.81        1.67468                    556352.49
3776517.81        1.69706
         556372.49    3776517.81        1.69703                    556392.49
3776517.81        1.76208
         556412.49    3776517.81        1.81228                    556432.49
3776517.81        1.85921
         556452.49    3776517.81        1.89940                    556472.49
3776517.81        1.98263
         556492.49    3776517.81        2.05103                    556172.49
3776537.81        1.36897
         556192.49    3776537.81        1.41821                    556212.49
3776537.81        1.47597
         556232.49    3776537.81        1.52492                    556252.49
3776537.81        1.57042
         556272.49    3776537.81        1.60242                    556292.49
3776537.81        1.66526
         556312.49    3776537.81        1.70318                    556332.49
3776537.81        1.74876
         556352.49    3776537.81        1.77611                    556372.49
3776537.81        1.78446
         556392.49    3776537.81        1.79576                    556412.49
3776537.81        1.86457
         556432.49    3776537.81        1.92692                    556452.49
3776537.81        1.96734
         556472.49    3776537.81        2.06028                    556492.49
3776537.81        2.14472
         556332.49    3776557.81        1.83942                    556352.49
3776557.81        1.84437
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         556372.49    3776557.81        1.88218                       556392.49
3776557.81        1.89857
         556412.49    3776557.81        1.96155                       556432.49
3776557.81        2.00887
         556452.49    3776557.81        2.04975                       556472.49
3776557.81        2.13517
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                 ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556492.49    3776557.81        2.23828                       556332.49
3776577.81        1.90332
         556352.49    3776577.81        1.94987                       556372.49
3776577.81        1.98137
         556392.49    3776577.81        2.02115                       556412.49
3776577.81        2.07019
         556432.49    3776577.81        2.09988                       556452.49
3776577.81        2.15606
         556472.49    3776577.81        2.24274                       556492.49
3776577.81        2.33644
         556332.49    3776597.81        1.99957                       556352.49
3776597.81        2.04759
         556372.49    3776597.81        2.08291                       556392.49
3776597.81        2.09628
         556412.49    3776597.81        2.16883                       556432.49
3776597.81        2.19960
         556452.49    3776597.81        2.22864                       556472.49
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3776597.81        2.30807
         556492.49    3776597.81        2.43689                   556252.49
3776617.81        1.76545
         556272.49    3776617.81        1.82330                   556292.49
3776617.81        1.90187
         556312.49    3776617.81        1.99449                   556332.49
3776617.81        2.04453
         556352.49    3776617.81        2.14237                   556372.49
3776617.81        2.21115
         556392.49    3776617.81        2.23928                   556412.49
3776617.81        2.29701
         556432.49    3776617.81        2.31560                   556452.49
3776617.81        2.37761
         556472.49    3776617.81        2.40293                   556492.49
3776617.81        2.53958
         556252.49    3776637.81        1.82171                   556272.49
3776637.81        1.90653
         556292.49    3776637.81        1.95561                   556312.49
3776637.81        2.03001
         556332.49    3776637.81        2.14295                   556352.49
3776637.81        2.22169
         556372.49    3776637.81        2.31852                   556392.49
3776637.81        2.35274
         556412.49    3776637.81        2.40572                   556432.49
3776637.81        2.44702
         556452.49    3776637.81        2.48315                   556472.49
3776637.81        2.54863
         556492.49    3776637.81        2.64874                   556252.49
3776657.81        1.91011
         556272.49    3776657.81        1.97464                   556292.49
3776657.81        2.04936
         556312.49    3776657.81        2.07314                   556332.49
3776657.81        2.20547
         556352.49    3776657.81        2.31797                   556372.49
3776657.81        2.42308
         556392.49    3776657.81        2.45714                   556412.49
3776657.81        2.51396
         556432.49    3776657.81        2.56220                   556452.49
3776657.81        2.61435
         556472.49    3776657.81        2.67290                   556492.49
3776657.81        2.77390
         556252.49    3776677.81        2.01799                   556272.49
3776677.81        2.02721
         556292.49    3776677.81        2.08704                   556312.49
3776677.81        2.16744
         556332.49    3776677.81        2.27041                   556352.49
3776677.81        2.39493
         556372.49    3776677.81        2.50088                   556392.49
3776677.81        2.56935
         556412.49    3776677.81        2.66647                   556432.49
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3776677.81        2.69362
         556452.49    3776677.81        2.74404                       556472.49
3776677.81        2.82290
         556492.49    3776677.81        2.91859                       556252.49
3776697.81        2.15126
         556272.49    3776697.81        2.14826                       556372.49
3776697.81        2.58129
         556392.49    3776697.81        2.64223                       556412.49
3776697.81        2.76307
         556432.49    3776697.81        2.82935                       556452.49
3776697.81        2.87753
         556472.49    3776697.81        2.96621                       556492.49
3776697.81        3.07544
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE PERIOD ( 43824 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF TOG      IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         556252.49    3776717.81        2.25480                       556272.49
3776717.81        2.28561
         556372.49    3776717.81        2.66032                       556392.49
3776717.81        2.71899
         556412.49    3776717.81        2.86735                       556432.49
3776717.81        2.96058
         556452.49    3776717.81        3.03040                       556472.49
3776717.81        3.18468
         556492.49    3776717.81        3.24776                       556267.40
3776875.81        4.22750
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         556239.03    3776853.02        3.79338                      556178.76
3776751.21        2.73067
         556154.45    3776774.51        2.86399                      556119.50
3776705.11        2.27598
         556146.51    3777267.93        7.45657                      556151.00
3777234.88        7.16359
         556144.93    3777179.58        6.47585                      556205.18
3777236.46        8.31823
         556218.00    3777200.04        8.08835                      556773.51
3777349.00      111.50053
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556521.71   3777341.57      688.21317  (23022020)               556539.90
3777344.94      740.64661  (23050706)
        556591.78   3777345.39      887.95220  (19011504)               556630.62
3777349.66     1085.72445  (19042706)
        556684.29   3777349.43     1345.00329  (19122606)               556905.58
3777351.19     1297.22678  (18020118)
        556920.93   3777350.82     1230.75132  (23122321)               556942.87
3777350.09      982.18682  (23120518)
        556996.26   3777348.26      569.12933  (19120718)               557096.81
3777357.77      396.83606  (23122320)
        557115.83   3777363.62      369.40027  (23122320)               557129.36
3777361.43      358.89814  (23122320)
        557230.65   3777363.99      260.53371  (18120207)               556466.22
3776816.07      436.44187  (20111119)
        556407.87   3776826.19      413.90364  (19011501)               556381.07
3776807.14      383.94600  (19011501)
        556404.29   3776771.52      367.31796  (23092301)               556465.21
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        556396.10   3776739.93      355.39723  (20111119)              556323.99
3777265.43      390.76916  (18102619)
        556330.60   3777233.99      401.51682  (21100603)              556321.08
3777200.43      389.96112  (21120218)
        556275.11   3777267.81      348.36464  (20020620)              556278.28
3777233.46      354.38407  (21100603)
        556509.40   3777373.38      624.48772  (20121320)              556529.40
3777373.38      657.97810  (19011504)
        556549.40   3777373.38      727.53147  (19042706)              556569.40
3777373.38      812.90923  (19042706)
        556589.40   3777373.38      866.02816  (19042706)              556609.40
3777373.38      889.91848  (23091905)
        556629.40   3777373.38     1019.07825  (19011708)              556649.40
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        556669.40   3777373.38     1105.13421  (19042503)              556689.40
3777373.38     1258.78263  (23123121)
        556709.40   3777373.38     1369.73688  (19050406)              556729.40
3777373.38     1421.64225  (19050406)
        556749.40   3777373.38     1574.97325  (20032007)              556769.40
3777373.38     1409.53956  (20032007)
        556789.40   3777373.38      997.89022  (19011519)              556809.40
3777373.38     1055.08423  (21120318)
        556829.40   3777373.38     1077.94665  (19011407)              556849.40
3777373.38     1119.25378  (18121017)
        556869.40   3777373.38     1177.94971  (21020220)              556889.40
3777373.38     1133.73976  (21122017)
        556909.40   3777373.38     1071.05214  (19011619)              556929.40
3777373.38     1002.74977  (23122321)
        556949.40   3777373.38      883.89516  (23120518)              556969.40
3777373.38      645.11222  (20090303)
        556989.40   3777373.38      531.46062  (21020119)              557009.40
3777373.38      483.20107  (21020119)
        557029.40   3777373.38      433.58381  (19120718)              557049.40
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3777373.38      272.59847  (18120207)
        557229.40   3777373.38      259.49797  (18120207)              557249.40
3777373.38      243.37777  (18120207)
        557269.40   3777373.38      225.51329  (18120207)              557289.40
3777373.38      213.75115  (23122120)
        557309.40   3777373.38      205.18170  (23122120)              557329.40
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3777373.38   177.23423 (19011701)
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        557429.40   3777373.38   153.04983 (20013120)   557449.40
3777373.38   147.16998 (20013120)
        557469.40   3777373.38   140.78357 (20013120)   557489.40
3777373.38   133.58262 (20013120)
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        556549.40   3777393.38   724.80357 (19042706)   556569.40
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        556589.40   3777393.38   809.33541 (19011708)   556609.40
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: LOADING_ ***
                                 INCLUDING SOURCE(S):   STCK1   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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        556909.40   3777393.38      927.48780  (19011703)              556929.40
3777393.38      867.74972  (18020118)
        556949.40   3777393.38      817.40626  (23122321)              556969.40
3777393.38      678.11608  (23120518)
        556989.40   3777393.38      492.19615  (20090303)              557009.40
3777393.38      448.74682  (21020119)
        557029.40   3777393.38      408.40391  (21020119)              557049.40
3777393.38      370.21195  (19120718)
        557069.40   3777393.38      331.12212  (19120718)              557089.40
3777393.38      295.80148  (21012207)
        557109.40   3777393.38      284.80715  (18110803)              557129.40
3777393.38      290.96340  (18110803)
        557149.40   3777393.38      290.21968  (23122320)              557169.40
3777393.38      284.62533  (23122320)
        557189.40   3777393.38      272.11308  (23122320)              557209.40
3777393.38      255.89006  (23122320)
        557229.40   3777393.38      238.63026  (18120207)              557249.40
3777393.38      232.32450  (18120207)
        557269.40   3777393.38      223.36299  (18120207)              557289.40
3777393.38      211.86907  (18120207)
        557309.40   3777393.38      198.18253  (18120207)              557329.40
3777393.38      185.69652  (21122222)
        557349.40   3777393.38      179.34641  (23122120)              557369.40
3777393.38      172.59866  (23122120)
        557389.40   3777393.38      165.09355  (23122120)              557409.40
3777393.38      156.74261  (19011701)
        557429.40   3777393.38      151.03363  (19011701)              557449.40
3777393.38      145.21304  (19011701)
        557469.40   3777393.38      138.56495  (19011701)              557489.40
3777393.38      131.33719  (19011701)
        556509.40   3777413.38      618.82385  (19042706)              556529.40
3777413.38      640.00133  (19042706)
        556549.40   3777413.38      657.15435  (18042302)              556569.40
3777413.38      737.29976  (19011708)
        556589.40   3777413.38      780.66548  (19011708)              556609.40
3777413.38      810.48076  (19122606)
        556629.40   3777413.38      846.89602  (23123121)              556649.40
3777413.38      929.97889  (23123121)
        556669.40   3777413.38      989.25163  (19011118)              556689.40
3777413.38     1065.65113  (19050406)
        556709.40   3777413.38     1087.76616  (21091102)              556729.40
3777413.38     1176.40488  (20032007)
        556749.40   3777413.38     1032.95195  (20032007)              556769.40
3777413.38      724.29533  (21020118)
        556789.40   3777413.38      761.92134  (19011519)              556809.40
3777413.38      793.63524  (23122418)
        556829.40   3777413.38      791.86892  (19120423)              556849.40
3777413.38      815.65540  (18121017)
        556869.40   3777413.38      867.15535  (19011324)              556889.40
3777413.38      849.66892  (21122017)
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        556909.40   3777413.38      803.74492  (19011703)               556929.40
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        556949.40   3777413.38      735.71775  (23122321)               556969.40
3777413.38      669.26841  (23120518)
        556989.40   3777413.38      525.82124  (18031005)               557009.40
3777413.38      386.83213  (21020119)
        557029.40   3777413.38      383.05177  (21020119)               557049.40
3777413.38      350.28083  (21020119)
        557069.40   3777413.38      321.24703  (19120718)               557089.40
3777413.38      291.83097  (19120718)
        557109.40   3777413.38      258.17530  (21012207)               557129.40
3777413.38      244.70938  (21012207)
        557149.40   3777413.38      248.06684  (18110803)               557169.40
3777413.38      250.16921  (18110803)
        557189.40   3777413.38      248.83706  (23122320)               557209.40
3777413.38      244.67755  (23122320)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557229.40   3777413.38      234.22452  (23122320)               557249.40
3777413.38      220.21451  (23122320)
        557269.40   3777413.38      205.08634  (18120207)               557289.40
3777413.38      201.33091  (18120207)
        557309.40   3777413.38      194.90255  (18120207)               557329.40
3777413.38      186.17413  (18120207)
        557349.40   3777413.38      177.27054  (18120207)               557369.40
3777413.38      166.22458  (18120207)
        557389.40   3777413.38      158.38017  (23122120)               557409.40
3777413.38      153.76812  (23122120)
        557429.40   3777413.38      147.42036  (23122120)               557449.40
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        556509.40   3777433.38      562.10584  (21070703)              556529.40
3777433.38      601.19384  (19011708)
        556549.40   3777433.38      663.80988  (19011708)              556569.40
3777433.38      689.11783  (19120722)
        556589.40   3777433.38      710.91639  (19122606)              556609.40
3777433.38      751.70292  (23123121)
        556629.40   3777433.38      824.42199  (23123121)              556649.40
3777433.38      873.34366  (19011118)
        556669.40   3777433.38      936.28419  (19050406)              556689.40
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        556709.40   3777433.38     1017.64019  (18021301)              556729.40
3777433.38     1010.95528  (20032007)
        556749.40   3777433.38      764.24609  (20032007)              556769.40
3777433.38      655.40679  (19011519)
        556789.40   3777433.38      665.80133  (21120318)              556809.40
3777433.38      694.38021  (23122418)
        556829.40   3777433.38      691.50025  (19120423)              556849.40
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        556869.40   3777433.38      757.70992  (19011324)              556889.40
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        556909.40   3777433.38      707.13146  (23010920)              556929.40
3777433.38      691.87599  (19011619)
        556949.40   3777433.38      657.99844  (21021919)              556969.40
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        556989.40   3777433.38      539.43563  (23120518)              557009.40
3777433.38      420.12850  (20090303)
        557029.40   3777433.38      339.70557  (21020119)              557049.40
3777433.38      334.36351  (21020119)
        557069.40   3777433.38      305.83734  (21020119)              557089.40
3777433.38      282.46087  (19120718)
        557109.40   3777433.38      260.06895  (19120718)              557129.40
3777433.38      229.22998  (19120718)
        557149.40   3777433.38      219.06338  (21012207)              557169.40
3777433.38      210.41947  (18110803)
        557189.40   3777433.38      217.25885  (18110803)              557209.40
3777433.38      218.34385  (23092605)
        557229.40   3777433.38      216.32661  (23122320)              557249.40
3777433.38      212.37636  (23122320)
        557269.40   3777433.38      203.74667  (23122320)              557289.40
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        557309.40   3777433.38      179.35450  (23122320)              557329.40
3777433.38      176.31716  (18120207)
        557349.40   3777433.38      170.74864  (18120207)              557369.40
3777433.38      164.83366  (18120207)
        557389.40   3777433.38      158.86837  (18120207)              557409.40
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        557429.40   3777433.38      141.54562  (21122222)              557449.40
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        556629.40   3777453.38      775.95981  (19011118)                556649.40
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        556669.40   3777453.38      821.86053  (18042604)                556689.40
3777453.38      876.64467  (18021301)
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3777453.38      808.39025  (20032007)
        556749.40   3777453.38      568.64050  (21020118)                556769.40
3777453.38      595.75248  (19011519)
        556789.40   3777453.38      603.91287  (21120318)                556809.40
3777453.38      611.00025  (23122418)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556829.40   3777453.38      614.39498  (21012523)                556849.40
3777453.38      634.32999  (18121017)
        556869.40   3777453.38      676.65230  (19011324)                556889.40
3777453.38      655.80678  (19121218)
        556909.40   3777453.38      640.45007  (21122017)                556929.40
3777453.38      619.14359  (19011703)
        556949.40   3777453.38      593.21768  (18020118)                556969.40
3777453.38      569.50194  (23122321)
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        557109.40   3777453.38      251.26887  (19120718)              557129.40
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        557189.40   3777453.38      186.42183  (21012207)              557209.40
3777453.38      189.13474  (18110803)
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        557269.40   3777453.38      190.99030  (23122320)              557289.40
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3777453.38      155.59459  (18120207)
        557389.40   3777453.38      152.56106  (18120207)              557409.40
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        557429.40   3777453.38      143.18730  (18120207)              557449.40
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        557469.40   3777453.38      129.37934  (18120207)              557489.40
3777453.38      122.61078  (21122222)
        556509.40   3777473.38      541.32463  (19011708)              556529.40
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        556549.40   3777473.38      565.67558  (19042503)              556569.40
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        556669.40   3777473.38      767.13449  (21091102)              556689.40
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        556709.40   3777473.38      788.32736  (20032007)              556729.40
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3777473.38      518.43021  (21021919)
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        557109.40   3777473.38      240.31125  (21020119)               557129.40
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        557189.40   3777473.38      176.11230  (21012207)               557209.40
3777473.38      170.20203  (21012207)
        557229.40   3777473.38      164.24651  (18110803)               557249.40
3777473.38      170.22841  (18110803)
        557269.40   3777473.38      171.67298  (18110803)               557289.40
3777473.38      170.90374  (23122320)
        557309.40   3777473.38      169.83845  (23122320)               557329.40
3777473.38      166.04310  (23122320)
        557349.40   3777473.38      159.58287  (23122320)               557369.40
3777473.38      151.59037  (23122320)
        557389.40   3777473.38      142.10399  (23122320)               557409.40
3777473.38      139.93916  (18120207)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557429.40   3777473.38      137.28953  (18120207)               557449.40
3777473.38      134.46327  (18120207)
        557469.40   3777473.38      129.80275  (18120207)               557489.40
3777473.38      124.27634  (18120207)
        556509.40   3777493.38      507.75576  (19122606)               556529.40
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        556549.40   3777493.38      549.32722  (23123121)              556569.40
3777493.38      583.38793  (23123121)
        556589.40   3777493.38      610.22040  (19011118)              556609.40
3777493.38      643.93824  (19050406)
        556629.40   3777493.38      671.46780  (19050406)              556649.40
3777493.38      672.17055  (19042604)
        556669.40   3777493.38      725.78511  (18021301)              556689.40
3777493.38      740.09105  (20032007)
        556709.40   3777493.38      642.63474  (20032007)              556729.40
3777493.38      471.40019  (21091601)
        556749.40   3777493.38      470.71801  (19011519)              556769.40
3777493.38      475.90236  (19011519)
        556789.40   3777493.38      493.24500  (23122418)              556809.40
3777493.38      490.84334  (19011407)
        556829.40   3777493.38      496.14698  (21012523)              556849.40
3777493.38      512.22061  (18121017)
        556869.40   3777493.38      544.40619  (19011324)              556889.40
3777493.38      539.21828  (19121218)
        556909.40   3777493.38      533.04106  (21122017)              556929.40
3777493.38      501.98473  (21020922)
        556949.40   3777493.38      494.48208  (19011619)              556969.40
3777493.38      474.35025  (18020118)
        556989.40   3777493.38      461.25747  (23122321)              557009.40
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        557029.40   3777493.38      374.36285  (23120518)              557049.40
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        557069.40   3777493.38      236.38280  (21020119)              557089.40
3777493.38      241.31407  (21020119)
        557109.40   3777493.38      234.33637  (21020119)              557129.40
3777493.38      215.58601  (21020119)
        557149.40   3777493.38      203.25134  (19120718)              557169.40
3777493.38      191.37103  (19120718)
        557189.40   3777493.38      174.48390  (19120718)              557209.40
3777493.38      160.20932  (20092604)
        557229.40   3777493.38      155.29313  (21012207)              557249.40
3777493.38      148.30814  (21012207)
        557269.40   3777493.38      150.09409  (18110803)              557289.40
3777493.38      153.53334  (18110803)
        557309.40   3777493.38      153.97707  (23092605)              557329.40
3777493.38      153.60536  (23122320)
        557349.40   3777493.38      152.24777  (23122320)              557369.40
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        557389.40   3777493.38      143.28089  (23122320)              557409.40
3777493.38      136.57990  (23122320)
        557429.40   3777493.38      127.93354  (23122320)              557449.40
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        557469.40   3777493.38      124.50388  (18120207)              557489.40
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        556509.40   3777513.38      468.78234  (19042503)              556529.40
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3777513.38      611.53916  (19050406)
        556629.40   3777513.38      610.59320  (18042604)                556649.40
3777513.38      640.68154  (18021301)
        556669.40   3777513.38      679.67011  (20032007)                556689.40
3777513.38      635.80427  (20032007)
        556709.40   3777513.38      504.85799  (20032007)                556729.40
3777513.38      413.12683  (21020118)
        556749.40   3777513.38      437.12372  (19011519)                556769.40
3777513.38      437.37508  (21120318)
        556789.40   3777513.38      453.39909  (23122418)                556809.40
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        556829.40   3777513.38      449.73398  (21012523)                556849.40
3777513.38      463.98864  (18121017)
        556869.40   3777513.38      491.42033  (19011324)                556889.40
3777513.38      490.96343  (19121218)
        556909.40   3777513.38      482.24991  (21122017)                556929.40
3777513.38      459.16314  (23010920)
        556949.40   3777513.38      457.09800  (19011703)                556969.40
3777513.38      438.86610  (18020118)
        556989.40   3777513.38      423.46517  (21021919)                557009.40
3777513.38      412.12249  (23122321)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
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3777513.38      314.72822  (18031005)
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        557109.40   3777513.38      218.83989  (21020119)              557129.40
3777513.38      211.14028  (21020119)
        557149.40   3777513.38      195.32242  (21020119)              557169.40
3777513.38      184.76417  (19120718)
        557189.40   3777513.38      174.64356  (19120718)              557209.40
3777513.38      161.61493  (19120718)
        557229.40   3777513.38      146.85838  (18091703)              557249.40
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        557269.40   3777513.38      137.42956  (21012207)              557289.40
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        557309.40   3777513.38      137.38778  (18110803)              557329.40
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        557349.40   3777513.38      139.48063  (23092605)              557369.40
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        557389.40   3777513.38      137.55379  (23122320)              557409.40
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        557429.40   3777513.38      129.23486  (23122320)              557449.40
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        557469.40   3777513.38      116.63477  (23122320)              557489.40
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        556509.40   3777533.38      458.83513  (23123121)              556529.40
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        556629.40   3777533.38      573.68841  (21091102)              556649.40
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        556669.40   3777533.38      604.29778  (20032007)              556689.40
3777533.38      522.70668  (20032007)
        556709.40   3777533.38      393.59351  (21091601)              556729.40
3777533.38      381.49489  (19011519)
        556749.40   3777533.38      401.80770  (19011519)              556769.40
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3777533.38      411.81346  (19011407)
        556829.40   3777533.38      411.71049  (21012523)              556849.40
3777533.38      423.25061  (18121017)
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        556909.40   3777533.38      440.37565  (21011317)              556929.40
3777533.38      426.65559  (21122017)
        556949.40   3777533.38      418.22109  (19011703)              556969.40
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3777533.38      382.31162  (23122321)
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3777533.38      322.60361  (23120518)
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3777533.38      122.99900  (18110803)
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3777533.38      127.31886  (23092605)
        557389.40   3777533.38      126.44580  (23092605)               557409.40
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3777553.38      508.10797  (19050406)
        556589.40   3777553.38      507.57351  (19050406)               556609.40
3777553.38      515.13071  (21091102)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING_ ***
                                  INCLUDING SOURCE(S):     STCK1       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        556749.40   3777553.38      363.96908  (19011519)              556769.40
3777553.38      374.82714  (21120318)
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        557069.40   3777553.38      275.29035  (23120518)              557089.40
3777553.38      227.37158  (20090303)
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        557189.40   3777553.38      162.91581  (19021106)              557209.40
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        557229.40   3777553.38      148.16894  (19120718)              557249.40
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        557309.40   3777553.38      118.10088  (21012207)              557329.40
3777553.38      113.94640  (21012207)
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3777553.38      114.10477  (18110803)
        557389.40   3777553.38      115.94769  (18110803)              557409.40
3777553.38      116.63732  (23092605)
        557429.40   3777553.38      116.22650  (23122320)              557449.40
3777553.38      115.99604  (23122320)
        557469.40   3777553.38      114.22320  (23122320)              557489.40
3777553.38      110.90294  (23122320)
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3777136.99     1107.18375  (19122921)
        556586.37   3777056.16     1030.68379  (19022022)              556672.35
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        556772.35   3776929.14      867.04161  (20050906)                556792.35
3776929.14      875.93285  (19122218)
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3776949.14      818.76919  (19020324)
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3776969.14     1075.61223  (19122218)
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3776969.14     1129.60658  (18122018)
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3776989.14     1050.48487  (19020324)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF TOG      IN MICROGRAMS/M**3
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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3776979.53      521.80203  (23111604)
        557047.54   3776979.53      300.23536  (23111604)                557067.54
3776979.53      153.92437  (21012206)
        557087.54   3776979.53      127.28918  (21011318)                556927.54
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        556947.54   3776999.53     1175.51000  (21123005)                556967.54
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        556987.54   3776999.53      969.93222  (23111604)                557007.54
3776999.53      674.12238  (23111604)
        557027.54   3776999.53      389.67981  (23111604)                557047.54
3776999.53      195.54129  (21012206)
        557067.54   3776999.53      146.27877  (21011318)                557087.54
3776999.53      145.68247  (21011318)
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        556967.54   3777019.53     1202.25218  (23111604)                556987.54
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        557007.54   3777019.53      515.44110  (23111604)                557027.54
3777019.53      252.91259  (21012206)
        557047.54   3777019.53      170.34977  (21011318)                557067.54
3777019.53      168.28922  (21011318)
        557087.54   3777019.53      166.33174  (19020905)                556927.54
3777039.53     1557.96240  (21123005)
        556947.54   3777039.53     1464.86461  (19111120)                556967.54
3777039.53     1162.93006  (23111604)
        556987.54   3777039.53      696.32215  (23111604)                557007.54
3777039.53      335.19442  (23111604)
        557027.54   3777039.53      201.63789  (21011318)                557047.54
3777039.53      197.13342  (21011318)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING_ ***
                                 INCLUDING SOURCE(S):     STCK1       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557067.54	3777039.53	204.33302	(19020905)	557087.54	3777039.53	214.89240	(19020905)
557047.54	3777059.53	255.23947	(19020905)	557067.54	3777059.53	263.29916	(19020905)
557087.54	3777059.53	261.81598	(19020905)	556919.02	3777174.93	1837.26390	(21122318)
556939.02	3777174.93	1364.26436	(21122318)	556919.02	3777194.93	2285.79853	(19120324)
556939.02	3777194.93	1802.71955	(19120324)	556919.02	3777214.93	3210.48350	(21120718)
556939.02	3777214.93	2368.62011	(21120718)	556919.02	3777234.93	2926.79254	(23122120)
556939.02	3777234.93	2226.86098	(19011701)	556919.02	3777254.93	2270.63807	(23122320)
556939.02	3777254.93	1920.45157	(23122320)	557023.57	3777171.57	555.43545	(19120102)
557043.57	3777171.57	479.77411	(19120102)	557063.57	3777171.57	422.54131	(19120324)
557083.57	3777171.57	393.24141	(19120324)	557023.57	3777191.57	791.77437	(19120324)
557043.57	3777191.57	691.75337	(19120324)	557063.57	3777191.57	609.22740	(19120324)
557083.57	3777191.57	544.28459	(19120324)	557023.57	3777211.57	938.54955	(19120324)
557043.57	3777211.57	805.01538	(19120324)	557063.57	3777211.57	699.74903	(19120324)
557083.57	3777211.57	607.62987	(19120324)	557023.57	3777231.57	922.28217	(20121124)
557043.57	3777231.57	789.21894	(20121124)	557063.57	3777231.57	692.74796	(21120718)
557083.57	3777231.57	597.07701	(21120718)	557023.57	3777251.57	901.27693	(20013120)
557043.57	3777251.57	782.38892	(23122818)	557063.57	3777251.57	691.83370	(23122818)
557083.57	3777251.57	583.89422	(23122818)	556249.05	3776972.85	351.79488	(19113019)
556269.05	3776972.85	386.69831	(19113019)	556229.05	3776992.85	375.73413	(19122921)
556249.05	3776992.85	382.09108	(19122921)	556269.05	3776992.85	382.44799	(23092902)
556289.05	3776992.85	381.09911	(18030824)	556309.05	3776992.85	416.60514	(19113019)
556329.05	3776992.85	457.22179	(19113019)	556209.05			

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3777012.85      360.86476  (19122921)
        556229.05   3777012.85      390.75489  (19122921)                556249.05
3777012.85      409.50078  (19122921)
        556269.05   3777012.85      422.75830  (19122921)                556289.05
3777012.85      431.01810  (19122921)
        556309.05   3777012.85      434.47524  (19122921)                556329.05
3777012.85      434.22135  (23092902)
        556209.05   3777032.85      370.59888  (21101420)                556229.05
3777032.85      384.82887  (21101420)
        556249.05   3777032.85      394.18376  (21101420)                556269.05
3777032.85      420.60114  (19122921)
        556289.05   3777032.85      444.76421  (19122921)                556309.05
3777032.85      467.77609  (19122921)
        556209.05   3777052.85      365.68114  (18123019)                556229.05
3777052.85      387.30550  (21101420)
        556249.05   3777052.85      406.27379  (21101420)                556269.05
3777052.85      425.87388  (21101420)
        556289.05   3777052.85      442.40986  (21101420)                556309.05
3777052.85      455.43410  (21101420)
        556249.05   3777072.85      391.13992  (18123019)                556269.05
3777072.85      414.15987  (18123019)
        556289.05   3777072.85      437.24441  (18123019)                556269.05
3777092.85      405.92062  (20041705)
        556441.69   3776927.49      539.97017  (20011220)                556461.69
3776927.49      544.13096  (20073101)
        556481.69   3776927.49      566.38155  (20073101)                556421.69
3776947.49      559.31788  (21120418)
        556441.69   3776947.49      553.66718  (18071905)                556461.69
3776947.49      589.45762  (20011220)
        556481.69   3776947.49      581.40460  (20011220)                556401.69
3776967.49      535.43245  (19120424)
        556421.69   3776967.49      560.85467  (21012120)                556441.69
3776967.49      595.69134  (21120418)
        556461.69   3776967.49      608.84863  (21120418)                556481.69
3776967.49      628.84623  (20011220)
        556401.69   3776987.49      542.12819  (19020201)                556421.69
3776987.49      553.54349  (21122822)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
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                                   PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  LOADING_ ***
                                   INCLUDING SOURCE(S):     STCK1       ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556441.69	3776987.49	597.70193	(19120424)	556461.69	3776987.49	628.96535	(21120418)
556481.69	3776987.49	675.11567	(21120418)	556421.69	3777007.49	596.49665	(19020201)
556441.69	3777007.49	602.84401	(19020201)	556461.69	3777007.49	620.32120	(19120424)
556481.69	3777007.49	675.39146	(19120424)	556441.69	3777027.49	627.90613	(19020201)
556461.69	3777027.49	666.34066	(19020201)	556481.69	3777027.49	685.39019	(19020201)
556251.24	3777154.95	345.01039	(19020922)	556261.28	3777141.20	346.37124	(19081106)
556264.98	3777168.16	352.25062	(19020922)	556279.25	3777151.77	364.76960	(19020922)
556202.60	3777113.45	301.84396	(23111620)	556220.05	3777109.75	310.68367	(19112020)
556187.53	3777090.19	283.39159	(19112020)	556164.27	3777121.38	280.24771	(23111620)
557510.26	3776508.23	108.95761	(23100204)	557530.26	3776508.23	104.38857	(19062905)
557550.26	3776508.23	105.73943	(19062905)	557570.26	3776508.23	104.72410	(19062905)
557590.26	3776508.23	101.87580	(19062905)	557610.26	3776508.23	97.57018	(19062905)
557630.26	3776508.23	91.60760	(19062905)	557650.26	3776508.23	84.74136	(19062905)
557670.26	3776508.23	76.96818	(19062905)	557690.26	3776508.23	77.91256	(21011318)
557510.26	3776528.23	107.41162	(19062905)	557530.26	3776528.23	108.70458	(19062905)
557550.26	3776528.23	107.65542	(19062905)	557570.26	3776528.23	104.11631	(19062905)
557590.26	3776528.23	99.32978	(19062905)	557610.26	3776528.23	93.17999	(19062905)
557630.26	3776528.23	86.06591	(19062905)	557650.26	3776528.23	78.30741	(19062905)
557670.26	3776528.23	81.22047	(21011318)	557690.26	3776528.23	83.58014	(21011318)
557510.26	3776548.23	111.35814	(19062905)	557530.26	3776548.23	110.44779	(19062905)

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        557550.26   3776548.23      106.27353  (19062905)                557570.26
3776548.23      100.67424  (19062905)
        557590.26   3776548.23       94.39239  (19062905)                557610.26
3776548.23       86.93042  (19062905)
        557630.26   3776548.23       80.61734  (21011318)                557650.26
3776548.23       84.28045  (21011318)
        557670.26   3776548.23       86.31435  (21011318)                557690.26
3776548.23       87.24344  (21011318)
        557510.26   3776568.23      112.45610  (19062905)                557530.26
3776568.23      108.92197  (19062905)
        557550.26   3776568.23      102.91159  (19062905)                557570.26
3776568.23       95.46623  (19062905)
        557590.26   3776568.23       87.78630  (19062905)                557610.26
3776568.23       83.39538  (21011318)
        557630.26   3776568.23       86.53130  (21011318)                557650.26
3776568.23       88.71851  (21011318)
        557670.26   3776568.23       89.07656  (21011318)                557690.26
3776568.23       88.17789  (21011318)
        557510.26   3776588.23      110.60109  (19062905)                557530.26
3776588.23      105.09630  (19062905)
        557550.26   3776588.23       97.42639  (19062905)                557570.26
3776588.23       88.63158  (19062905)
        557590.26   3776588.23       85.97410  (21011318)                557610.26
3776588.23       88.54456  (21011318)
        557630.26   3776588.23       90.31420  (21011318)                557650.26
3776588.23       90.69408  (21011318)
        557670.26   3776588.23       89.64992  (21011318)                557690.26
3776588.23       87.48222  (21011318)
        557510.26   3776608.23      106.11182  (19062905)                557530.26
3776608.23       98.94140  (19062905)
        557550.26   3776608.23       90.04328  (19062905)                557570.26
3776608.23       89.08999  (21011318)
        557590.26   3776608.23       90.65376  (21011318)                557610.26
3776608.23       91.40660  (21011318)
        557630.26   3776608.23       91.46531  (21011318)                557650.26
3776608.23       90.09286  (21011318)
        557670.26   3776608.23       87.42021  (21011318)                557690.26
3776608.23       83.79625  (21011318)
        557510.26   3776628.23       99.59978  (19062905)                557530.26
3776628.23       91.04096  (19062905)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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                                 PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: LOADING_ ***
                                INCLUDING SOURCE(S):   STCK1   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
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3776688.23       72.98488  (19020905)
        556172.49   3776517.81      211.82166  (20111119)                556192.49
3776517.81      214.58759  (20111119)
        556212.49   3776517.81      208.50677  (18123020)                556232.49
3776517.81      210.36852  (18123020)
        556252.49   3776517.81      206.10235  (20111219)                556272.49
3776517.81      214.29129  (20111219)
        556292.49   3776517.81      207.42486  (21010719)                556312.49
3776517.81      214.06273  (21010719)
        556332.49   3776517.81      217.76712  (18102919)                556352.49
3776517.81      206.91726  (20012518)
        556372.49   3776517.81      197.35232  (20031603)                556392.49
3776517.81      215.05830  (19020324)
        556412.49   3776517.81      211.38007  (19020324)                556432.49
3776517.81      206.15722  (23011008)
        556452.49   3776517.81      220.56848  (23071306)                556472.49
3776517.81      228.87506  (23071306)
        556492.49   3776517.81      213.61017  (23071306)                556172.49
3776537.81      212.52581  (23092301)
        556192.49   3776537.81      218.87183  (20111119)                556212.49
3776537.81      218.67687  (20111119)
        556232.49   3776537.81      216.51448  (18123020)                556252.49
3776537.81      216.86854  (18123020)
        556272.49   3776537.81      213.48532  (20111219)                556292.49
3776537.81      222.20402  (20111219)
        556312.49   3776537.81      218.62570  (21010719)                556332.49
3776537.81      225.06616  (21010719)
        556352.49   3776537.81      224.78194  (18102919)                556372.49
3776537.81      209.72032  (20012518)
        556392.49   3776537.81      207.10403  (19020324)                556412.49
3776537.81      221.74507  (19020324)
        556432.49   3776537.81      211.20087  (19020324)                556452.49
3776537.81      215.38518  (23071306)
        556472.49   3776537.81      236.82326  (23071306)                556492.49
3776537.81      234.47896  (23071306)
        556332.49   3776557.81      236.13875  (21010719)                556352.49
3776557.81      232.63436  (18102919)
        556372.49   3776557.81      229.70491  (18102919)                556392.49
3776557.81      216.90737  (20031603)
        556412.49   3776557.81      230.96782  (19020324)                556432.49
3776557.81      232.41775  (19020324)
        556452.49   3776557.81      219.99631  (23011008)                556472.49
3776557.81      236.95557  (23071306)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
                       ***       13:24:37

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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING_ ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556492.49	3776557.81	249.58328	(23071306)	556332.49	3776577.81	243.07937	(20111219)
556352.49	3776577.81	246.52574	(21010719)	556372.49	3776577.81	246.97936	(18102919)
556392.49	3776577.81	237.05055	(18102919)	556412.49	3776577.81	231.02404	(20031603)
556432.49	3776577.81	244.99268	(19020324)	556452.49	3776577.81	237.72498	(19020324)
556472.49	3776577.81	235.22535	(23011008)	556492.49	3776577.81	257.43932	(23071306)
556332.49	3776597.81	260.35019	(20111219)	556352.49	3776597.81	254.77792	(20111219)
556372.49	3776597.81	258.44206	(21010719)	556392.49	3776597.81	254.37651	(18102919)
556412.49	3776597.81	245.83827	(20012518)	556432.49	3776597.81	246.27957	(19020324)
556452.49	3776597.81	251.87814	(19020324)	556472.49	3776597.81	237.74901	(23011008)
556492.49	3776597.81	256.47351	(23071306)	556252.49	3776617.81	254.30569	(23092301)
556272.49	3776617.81	261.99387	(20111119)	556292.49	3776617.81	259.61354	(20111119)
556312.49	3776617.81	267.56343	(18123020)	556332.49	3776617.81	258.20768	(18123020)
556352.49	3776617.81	274.02897	(20111219)	556372.49	3776617.81	267.05066	(20111219)
556392.49	3776617.81	271.42806	(21010719)	556412.49	3776617.81	272.29790	(18102919)
556432.49	3776617.81	251.33319	(20012518)	556452.49	3776617.81	267.76272	(19020324)
556472.49	3776617.81	261.48984	(19020324)	556492.49	3776617.81	258.40490	(23011008)
556252.49	3776637.81	249.45232	(23092301)	556272.49	3776637.81	267.59644	(23092301)

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        556292.49   3776637.81      275.35190  (20111119)                556312.49
3776637.81      270.37712  (20111119)
        556332.49   3776637.81      282.04650  (18123020)                556352.49
3776637.81      275.76383  (20111219)
        556372.49   3776637.81      290.86565  (20111219)                556392.49
3776637.81      280.30231  (21010719)
        556412.49   3776637.81      283.96886  (18102919)                556432.49
3776637.81      277.68033  (18102919)
        556452.49   3776637.81      262.19549  (20031603)                556472.49
3776637.81      282.51055  (19020324)
        556492.49   3776637.81      276.81206  (19020324)                556252.49
3776657.81      278.76181  (19011501)
        556272.49   3776657.81      263.90548  (23092301)                556292.49
3776657.81      282.68232  (23092301)
        556312.49   3776657.81      285.25364  (20111119)                556332.49
3776657.81      287.03795  (20111119)
        556352.49   3776657.81      299.08109  (18123020)                556372.49
3776657.81      298.09068  (20111219)
        556392.49   3776657.81      298.97339  (20111219)                556412.49
3776657.81      294.72629  (21010719)
        556432.49   3776657.81      295.67627  (18102919)                556452.49
3776657.81      281.00010  (20012518)
        556472.49   3776657.81      282.72613  (19020324)                556492.49
3776657.81      300.42933  (19020324)
        556252.49   3776677.81      294.00266  (19011501)                556272.49
3776677.81      290.40076  (19011501)
        556292.49   3776677.81      272.03598  (23092301)                556312.49
3776677.81      292.28700  (23092301)
        556332.49   3776677.81      305.92433  (20111119)                556352.49
3776677.81      303.83599  (20111119)
        556372.49   3776677.81      315.22448  (18123020)                556392.49
3776677.81      309.82660  (20111219)
        556412.49   3776677.81      315.36347  (20111219)                556432.49
3776677.81      308.85706  (21010719)
        556452.49   3776677.81      307.17953  (18102919)                556472.49
3776677.81      291.43654  (20012518)
        556492.49   3776677.81      310.38138  (19020324)                556252.49
3776697.81      286.34553  (19011501)
        556272.49   3776697.81      304.56071  (19011501)                556372.49
3776697.81      319.18614  (18123020)
        556392.49   3776697.81      322.55197  (18123020)                556412.49
3776697.81      326.58362  (20111219)
        556432.49   3776697.81      321.16060  (20111219)                556452.49
3776697.81      319.69867  (21010719)
        556472.49   3776697.81      319.58859  (18102919)                556492.49
3776697.81      305.35667  (20031603)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: LOADING_ ***
INCLUDING SOURCE(S): STCK1 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556252.49	3776717.81	281.89642	(19122922)	556272.49	3776717.81	295.21796	(18031106)
556372.49	3776717.81	341.20582	(20111119)	556392.49	3776717.81	327.57220	(18123020)
556412.49	3776717.81	340.40434	(18123020)	556432.49	3776717.81	341.15102	(20111219)
556452.49	3776717.81	328.82254	(20111219)	556472.49	3776717.81	344.14359	(21010719)
556492.49	3776717.81	334.06932	(18102919)	556267.40	3776875.81	392.98786	(21120418)
556239.03	3776853.02	374.88198	(21120418)	556178.76	3776751.21	314.04782	(20011220)
556154.45	3776774.51	308.72389	(21120418)	556119.50	3776705.11	277.85685	(20011220)
556146.51	3777267.93	266.77352	(20020620)	556151.00	3777234.88	270.03551	(21100603)
556144.93	3777179.58	277.51132	(21120218)	556205.18	3777236.46	300.90450	(21100603)
556218.00	3777200.04	304.05675	(21062203)	556773.51	3777349.00	1908.54123	(20032007)

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FUELING ***

INCLUDING SOURCE(S): VOL1 , VOL3
, VOL5 , VOL7 , VOL10 ,
VOL11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF TOG IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556521.71	3777341.57	809.83545	(20121320)	556539.90	3777344.94	846.06081	(19011504)
556591.78	3777345.39	1072.26318	(19042706)	556630.62	3777349.66	1223.42962	(19011708)
556684.29	3777349.43	1415.40339	(23123121)	556905.58	3777351.19	1156.83022	(19011619)
556920.93	3777350.82	1104.08166	(21021919)	556942.87	3777350.09	1018.05795	(23120518)
556996.26	3777348.26	617.10500	(21020119)	557096.81	3777357.77	364.73504	(18110803)
557115.83	3777363.62	359.40471	(18110803)	557129.36	3777361.43	374.77080	(23092605)
557230.65	3777363.99	301.69409	(18120207)	556466.22	3776816.07	545.33044	(23092301)
556407.87	3776826.19	497.50150	(19122922)	556381.07	3776807.14	463.29641	(19122922)
556404.29	3776771.52	466.00967	(19011501)	556465.21	3776739.51	484.20227	(20111219)
556396.10	3776739.93	449.15776	(23092301)	556323.99	3777265.43	491.50541	(19042702)
556330.60	3777233.99	506.42686	(20020620)	556321.08	3777200.43	494.27238	(21100603)
556275.11	3777267.81	438.05727	(19042702)	556278.28	3777233.46	444.32843	(20020620)
556509.40	3777373.38	742.57287	(18042603)	556529.40	3777373.38	828.12635	(19042706)
556549.40	3777373.38	861.26761	(19042706)	556569.40	3777373.38	884.43235	(18042302)
556589.40	3777373.38	981.26358	(19011708)	556609.40	3777373.38	1038.33910	(19120722)
556629.40	3777373.38	1062.84309	(19042503)	556649.40	3777373.38	1132.99418	(23123121)
556669.40	3777373.38	1209.42689	(19011118)	556689.40	3777373.38	1312.57760	(19050406)
556709.40	3777373.38	1323.61702	(18042604)	556729.40	3777373.38	1409.22869	(20032007)

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        556749.40   3777373.38     1302.52597  (20032007)                556769.40
3777373.38      914.17667  (21020118)
        556789.40   3777373.38      950.46651  (19011519)                556809.40
3777373.38      981.58027  (23122418)
        556829.40   3777373.38      978.62728  (19120423)                556849.40
3777373.38     1012.17959  (23102701)
        556869.40   3777373.38     1060.79884  (19121218)                556889.40
3777373.38     1037.19641  (21122017)
        556909.40   3777373.38      992.28728  (19011703)                556929.40
3777373.38      940.21502  (21021919)
        556949.40   3777373.38      904.51607  (23120518)                556969.40
3777373.38      715.32060  (18031005)
        556989.40   3777373.38      498.76982  (21020119)                557009.40
3777373.38      521.13143  (21020119)
        557029.40   3777373.38      472.31365  (19021106)                557049.40
3777373.38      437.65184  (19120718)
        557069.40   3777373.38      383.47496  (19120718)                557089.40
3777373.38      351.54941  (21012207)
        557109.40   3777373.38      331.32079  (21012207)                557129.40
3777373.38      330.02053  (18110803)
        557149.40   3777373.38      340.87712  (23092605)                557169.40
3777373.38      340.73681  (23122320)
        557189.40   3777373.38      333.02960  (23122320)                557209.40
3777373.38      313.17369  (23122320)
        557229.40   3777373.38      284.62674  (23122320)                557249.40
3777373.38      280.83310  (18120207)
        557269.40   3777373.38      273.16664  (18120207)                557289.40
3777373.38      260.97010  (18120207)
        557309.40   3777373.38      245.09883  (18120207)                557329.40
3777373.38      227.99360  (21122222)
        557349.40   3777373.38      219.66123  (23122120)                557369.40
3777373.38      212.76407  (23122120)
        557389.40   3777373.38      203.97814  (23122120)                557409.40
3777373.38      193.81702  (23122120)
        557429.40   3777373.38      186.42626  (19011701)                557449.40
3777373.38      179.89898  (19011701)
        557469.40   3777373.38      172.01750  (19011701)                557489.40
3777373.38      162.59633  (19011701)
        556509.40   3777393.38      749.50354  (19042706)                556529.40
3777393.38      753.80862  (21070703)
        556549.40   3777393.38      793.56678  (23091905)                556569.40
3777393.38      881.05719  (19011708)
        556589.40   3777393.38      919.79999  (19122606)                556609.40
3777393.38      938.87579  (19042503)
 *** AERMOD - VERSION 24142  ***   ***
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08/25/25
 *** AERMET - VERSION  22112 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FUELING ***
INCLUDING SOURCE(S): VOL1 , VOL3 , VOL5 , VOL7 , VOL10 , VOL11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556629.40	3777393.38	1008.38794	(23123121)	556649.40	3777393.38	1055.71288	(19020405)
556669.40	3777393.38	1122.80140	(19050406)	556689.40	3777393.38	1155.44888	(19050406)
556709.40	3777393.38	1210.96770	(21091102)	556729.40	3777393.38	1248.55080	(20032007)
556749.40	3777393.38	937.29452	(20032007)	556769.40	3777393.38	806.87735	(19011519)
556789.40	3777393.38	821.87786	(21120318)	556809.40	3777393.38	861.43075	(23122418)
556829.40	3777393.38	856.71760	(21012523)	556849.40	3777393.38	886.95252	(23102701)
556869.40	3777393.38	918.54299	(19121218)	556889.40	3777393.38	924.80328	(21122017)
556909.40	3777393.38	878.29013	(19011703)	556929.40	3777393.38	857.25054	(18020118)
556949.40	3777393.38	820.36331	(23122321)	556969.40	3777393.38	737.47734	(23120518)
556989.40	3777393.38	550.60098	(20090303)	557009.40	3777393.38	443.01931	(21020119)
557029.40	3777393.38	451.93587	(21020119)	557049.40	3777393.38	409.71209	(19021106)
557069.40	3777393.38	381.78537	(19120718)	557089.40	3777393.38	341.65777	(19120718)
557109.40	3777393.38	308.88281	(20092604)	557129.40	3777393.38	295.43331	(21012207)
557149.40	3777393.38	274.44973	(20070505)	557169.40	3777393.38	290.12473	(18110803)
557189.40	3777393.38	294.85619	(23092605)	557209.40	3777393.38	295.34797	(23122320)
557229.40	3777393.38	287.59059	(23122320)	557249.40			

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3777393.38      269.85920  (23122320)
        557269.40   3777393.38      247.02371  (23122320)              557289.40
3777393.38      242.98429  (18120207)
        557309.40   3777393.38      237.89670  (18120207)              557329.40
3777393.38      230.24296  (18120207)
        557349.40   3777393.38      218.41274  (18120207)              557369.40
3777393.38      204.51992  (21122222)
        557389.40   3777393.38      192.92007  (21122222)              557409.40
3777393.38      188.28055  (23122120)
        557429.40   3777393.38      182.53928  (23122120)              557449.40
3777393.38      175.72817  (23122120)
        557469.40   3777393.38      167.20895  (23122120)              557489.40
3777393.38      160.68347  (19011701)
        556509.40   3777413.38      683.04684  (18042302)              556529.40
3777413.38      734.33587  (19011708)
        556549.40   3777413.38      796.98157  (19011708)              556569.40
3777413.38      826.23171  (19122606)
        556589.40   3777413.38      839.56865  (19042503)              556609.40
3777413.38      900.21754  (23123121)
        556629.40   3777413.38      946.54368  (19020405)              556649.40
3777413.38      997.71436  (20071506)
        556669.40   3777413.38     1050.43244  (19050406)              556689.40
3777413.38     1064.18277  (21091102)
        556709.40   3777413.38     1132.07975  (20032007)              556729.40
3777413.38      998.65866  (20032007)
        556749.40   3777413.38      719.38303  (21020118)              556769.40
3777413.38      747.44090  (19011519)
        556789.40   3777413.38      754.78610  (21120318)              556809.40
3777413.38      758.66319  (23122418)
        556829.40   3777413.38      764.78515  (21012523)              556849.40
3777413.38      791.57592  (23102701)
        556869.40   3777413.38      827.86672  (21020220)              556889.40
3777413.38      821.02349  (21011317)
        556909.40   3777413.38      778.88944  (23010920)              556929.40
3777413.38      776.70981  (19011619)
        556949.40   3777413.38      735.52764  (21021919)              556969.40
3777413.38      708.09118  (23120518)
        556989.40   3777413.38      587.34213  (18031005)              557009.40
3777413.38      426.30465  (20090303)
        557029.40   3777413.38      393.45867  (21020119)              557049.40
3777413.38      395.41319  (21020119)
        557069.40   3777413.38      360.21452  (19021106)              557089.40
3777413.38      337.46303  (19120718)
        557109.40   3777413.38      307.16818  (19120718)              557129.40
3777413.38      274.50642  (18091703)
        557149.40   3777413.38      264.93089  (21012207)              557169.40
3777413.38      248.53869  (21012207)
        557189.40   3777413.38      246.27336  (18110803)              557209.40
3777413.38      257.86957  (23092605)
 *** AERMOD - VERSION 24142  ***   ***
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL3
, VOL5   , VOL7   , VOL10   ,
                VOL11   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
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        556749.40   3777433.38      625.14271  (21020118)              556769.40
3777433.38      676.02529  (19011519)
        556789.40   3777433.38      686.22080  (21120318)              556809.40
3777433.38      682.13443  (19011407)
        556829.40   3777433.38      686.28334  (21012523)              556849.40
3777433.38      708.24087  (23102701)
        556869.40   3777433.38      742.29634  (19011324)              556889.40
3777433.38      732.71880  (21011317)
        556909.40   3777433.38      704.42555  (23010920)              556929.40
3777433.38      699.14841  (19011703)
        556949.40   3777433.38      677.06289  (18020118)              556969.40
3777433.38      653.66927  (23122321)
        556989.40   3777433.38      596.82664  (23120518)              557009.40
3777433.38      475.65173  (18031005)
        557029.40   3777433.38      350.54612  (21012919)              557049.40
3777433.38      354.10322  (21020119)
        557069.40   3777433.38      350.55940  (21020119)              557089.40
3777433.38      320.25091  (19021106)
        557109.40   3777433.38      301.53527  (19120718)              557129.40
3777433.38      276.47168  (19120718)
        557149.40   3777433.38      248.07869  (18091703)              557169.40
3777433.38      236.40908  (21012207)
        557189.40   3777433.38      227.36475  (21012207)              557209.40
3777433.38      211.66480  (20070505)
        557229.40   3777433.38      222.39195  (18110803)              557249.40
3777433.38      229.69108  (23092605)
        557269.40   3777433.38      229.77258  (23122320)              557289.40
3777433.38      228.05084  (23122320)
        557309.40   3777433.38      221.47269  (23122320)              557329.40
3777433.38      208.63271  (23122320)
        557349.40   3777433.38      191.85338  (23122320)              557369.40
3777433.38      187.32909  (18120207)
        557389.40   3777433.38      187.99316  (18120207)              557409.40
3777433.38      184.53263  (18120207)
        557429.40   3777433.38      176.85184  (18120207)              557449.40
3777433.38      168.59051  (18120207)
        557469.40   3777433.38      159.07549  (21122222)              557489.40
3777433.38      151.21715  (21122222)
        556509.40   3777453.38      651.13056  (19120722)              556529.40
3777453.38      663.97930  (19122606)
        556549.40   3777453.38      676.40665  (19042503)              556569.40
3777453.38      731.41745  (23123121)
        556589.40   3777453.38      765.04128  (19020405)              556609.40
3777453.38      810.90619  (19011118)
        556629.40   3777453.38      862.49643  (19050406)              556649.40
3777453.38      849.18112  (18042604)
        556669.40   3777453.38      885.33645  (21091102)              556689.40
3777453.38      931.24745  (20032007)
        556709.40   3777453.38      795.38471  (20032007)              556729.40
3777453.38      586.64083  (21020118)
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        556749.40   3777453.38      588.87803  (19011519)                556769.40
3777453.38      599.22630  (19011519)
        556789.40   3777453.38      622.90982  (23122418)                556809.40
3777453.38      623.02023  (19011407)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE  99
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556829.40   3777453.38      622.62151  (21012523)                556849.40
3777453.38      644.63858  (23102701)
        556869.40   3777453.38      678.57010  (19011324)                556889.40
3777453.38      662.58523  (19121218)
        556909.40   3777453.38      653.67987  (21122017)                556929.40
3777453.38      633.50077  (19011703)
        556949.40   3777453.38      615.22223  (18020118)                556969.40
3777453.38      593.72311  (21021919)
        556989.40   3777453.38      572.13041  (23120518)                557009.40
3777453.38      492.60705  (23120518)
        557029.40   3777453.38      378.62059  (20090303)                557049.40
3777453.38      303.85277  (21112818)
        557069.40   3777453.38      318.48663  (21020119)                557089.40
3777453.38      312.63917  (21020119)
        557109.40   3777453.38      287.59363  (19021106)                557129.40
3777453.38      270.75647  (19120718)
        557149.40   3777453.38      252.03295  (19120718)                557169.40
3777453.38      223.58769  (18091703)
        557189.40   3777453.38      213.03336  (20092604)                557209.40
3777453.38      208.07712  (21012207)
        557229.40   3777453.38      195.29626  (21012207)                557249.40
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3777453.38      192.54433  (18110803)
        557269.40   3777453.38      202.05864  (18110803)              557289.40
3777453.38      205.54443  (23092605)
        557309.40   3777453.38      205.93654  (23122320)              557329.40
3777453.38      203.89329  (23122320)
        557349.40   3777453.38      197.20349  (23122320)              557369.40
3777453.38      185.62613  (23122320)
        557389.40   3777453.38      172.63232  (23122320)              557409.40
3777453.38      168.56123  (18120207)
        557429.40   3777453.38      168.49501  (18120207)              557449.40
3777453.38      165.88486  (18120207)
        557469.40   3777453.38      160.86476  (18120207)              557489.40
3777453.38      153.86825  (18120207)
        556509.40   3777473.38      598.58859  (19122606)              556529.40
3777473.38      608.62815  (19042503)
        556549.40   3777473.38      663.50093  (23123121)              556569.40
3777473.38      693.65572  (19020405)
        556589.40   3777473.38      734.55219  (19011118)              556609.40
3777473.38      770.87504  (19050406)
        556629.40   3777473.38      760.84068  (19050406)              556649.40
3777473.38      799.15546  (21091102)
        556669.40   3777473.38      836.46809  (18021301)              556689.40
3777473.38      801.05646  (20032007)
        556709.40   3777473.38      597.58186  (19082804)              556729.40
3777473.38      524.87279  (21020118)
        556749.40   3777473.38      552.12382  (19011519)              556769.40
3777473.38      546.32081  (21120318)
        556789.40   3777473.38      571.31174  (23122418)              556809.40
3777473.38      569.60369  (19011407)
        556829.40   3777473.38      564.65772  (21012523)              556849.40
3777473.38      588.88049  (23102701)
        556869.40   3777473.38      620.34211  (19011324)              556889.40
3777473.38      611.37022  (19121218)
        556909.40   3777473.38      606.56043  (21122017)              556929.40
3777473.38      572.00711  (21020922)
        556949.40   3777473.38      569.96003  (19011619)              556969.40
3777473.38      545.05794  (18020118)
        556989.40   3777473.38      536.45274  (23122321)              557009.40
3777473.38      500.54276  (23120518)
        557029.40   3777473.38      411.78770  (18031005)              557049.40
3777473.38      306.38509  (20090303)
        557069.40   3777473.38      272.19024  (21020119)              557089.40
3777473.38      288.72895  (21020119)
        557109.40   3777473.38      281.59700  (21020119)              557129.40
3777473.38      259.28228  (19021106)
        557149.40   3777473.38      245.81618  (19120718)              557169.40
3777473.38      229.36527  (19120718)
        557189.40   3777473.38      204.90589  (19120718)              557209.40
3777473.38      195.24238  (20092604)
        557229.40   3777473.38      189.77806  (21012207)              557249.40
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL3
, VOL5   , VOL7   , VOL10   ,
                VOL11   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        557429.40   3777473.38   156.40855 (23122320)   557449.40
3777473.38   151.67599 (18120207)
        557469.40   3777473.38   151.99229 (18120207)   557489.40
3777473.38   149.99084 (18120207)
        556509.40   3777493.38   561.30457 (23071405)   556529.40
3777493.38   611.84376 (23123121)
        556549.40   3777493.38   633.37474 (19020405)   556569.40
3777493.38   664.02326 (19011118)
        556589.40   3777493.38   688.91982 (19050406)   556609.40
3777493.38   705.26664 (19050406)
        556629.40   3777493.38   711.55560 (19042604)   556649.40
3777493.38   749.69979 (18021301)
        556669.40   3777493.38   770.82183 (20032007)   556689.40
3777493.38   646.83173 (20032007)
        556709.40   3777493.38   485.67925 (21020118)   556729.40
3777493.38   469.13486 (19011519)

556749.40 3777493.38 508.89297 (19011519) 556769.40 3777493.38 512.80561 (21120318)
556789.40 3777493.38 522.64645 (23122418) 556809.40 3777493.38 520.18597 (19011407)
556829.40 3777493.38 517.16573 (23122308) 556849.40 3777493.38 538.00243 (23102701)
556869.40 3777493.38 566.62244 (19011324) 556889.40 3777493.38 564.24731 (19121218)
556909.40 3777493.38 558.97894 (21122017) 556929.40 3777493.38 529.65381 (23010920)
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556989.40 3777493.38 494.62325 (21021919) 557009.40 3777493.38 480.57765 (23120518)
557029.40 3777493.38 426.71308 (23120518) 557049.40 3777493.38 341.49890 (18031005)
557069.40 3777493.38 265.02822 (21012919) 557089.40 3777493.38 251.52592 (21020119)
557109.40 3777493.38 263.84305 (21020119) 557129.40 3777493.38 254.67365 (21020119)
557149.40 3777493.38 236.33061 (19021106) 557169.40 3777493.38 223.49605 (19120718)
557189.40 3777493.38 210.45348 (19120718) 557209.40 3777493.38 190.57342 (19120718)
557229.40 3777493.38 179.29885 (18091703) 557249.40 3777493.38 173.64856 (21012207)
557269.40 3777493.38 168.76940 (21012207) 557289.40 3777493.38 159.02206 (21012207)
557309.40 3777493.38 155.88347 (20070505) 557329.40 3777493.38 163.17757 (18110803)
557349.40 3777493.38 167.82249 (23092605) 557369.40 3777493.38 168.31207 (23092605)
557389.40 3777493.38 168.78993 (23122320) 557409.40 3777493.38 166.42373 (23122320)
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556509.40 3777513.38 561.49365 (23123121) 556529.40 3777513.38 580.26673 (23123121)
556549.40 3777513.38 608.30680 (19011118) 556569.40 3777513.38 629.50941 (19050406)
556589.40 3777513.38 658.36040 (19050406) 556609.40 3777513.38 649.94137 (18042604)
556629.40 3777513.38 679.74755 (21091102) 556649.40 3777513.38 715.00183 (20032007)
556669.40 3777513.38 664.60484 (20032007) 556689.40 3777513.38 494.24070 (19082804)
556709.40 3777513.38 444.49848 (21020118) 556729.40 3777513.38 454.59222 (19011519)

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3777513.38      478.29496  (19120423)
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3777513.38      493.99055  (23102701)
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3777513.38      520.42479  (19121218)
        556909.40   3777513.38      510.70696  (21011317)                556929.40
3777513.38      488.23645  (23010920)
        556949.40   3777513.38      489.38382  (19011703)                556969.40
3777513.38      473.35449  (19011619)
        556989.40   3777513.38      453.76242  (19120822)                557009.40
3777513.38      452.62827  (23122321)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3777513.38      362.33316  (18031005)
        557069.40   3777513.38      282.64126  (20090303)                557089.40
3777513.38      234.04875  (21012919)
        557109.40   3777513.38      233.46290  (21020119)                557129.40
3777513.38      241.02656  (21020119)
        557149.40   3777513.38      232.23524  (21020119)                557169.40
3777513.38      216.25154  (19021106)
        557189.40   3777513.38      204.38710  (19120718)                557209.40
3777513.38      194.94279  (19120718)
        557229.40   3777513.38      177.22077  (19120718)                557249.40
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3777513.38      166.25259  (18091703)
        557269.40   3777513.38      159.28010  (21012207)              557289.40
3777513.38      156.44928  (21012207)
        557309.40   3777513.38      149.65121  (21012207)              557329.40
3777513.38      141.74349  (23120121)
        557349.40   3777513.38      144.71017  (18110803)              557369.40
3777513.38      150.72973  (18110803)
        557389.40   3777513.38      153.83655  (23092605)              557409.40
3777513.38      153.79298  (23122320)
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3777513.38      151.02087  (23122320)
        557469.40   3777513.38      146.00481  (23122320)              557489.40
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        556509.40   3777533.38      535.32835  (23123121)              556529.40
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        556549.40   3777533.38      570.80439  (20071506)              556569.40
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        556589.40   3777533.38      591.99275  (18042604)              556609.40
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        556629.40   3777533.38      648.84278  (18021301)              556649.40
3777533.38      646.69784  (20032007)
        556669.40   3777533.38      533.07155  (20032007)              556689.40
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        556709.40   3777533.38      396.89322  (21020118)              556729.40
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        556749.40   3777533.38      416.03404  (19011519)              556769.40
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        556789.40   3777533.38      437.42294  (23122418)              556809.40
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        556829.40   3777533.38      440.05869  (23122308)              556849.40
3777533.38      455.91732  (23102701)
        556869.40   3777533.38      476.20404  (19011324)              556889.40
3777533.38      479.05420  (19121218)
        556909.40   3777533.38      472.37130  (21011317)              556929.40
3777533.38      459.21620  (21122017)
        556949.40   3777533.38      446.23406  (19011703)              556969.40
3777533.38      441.49206  (19011619)
        556989.40   3777533.38      429.98745  (18020118)              557009.40
3777533.38      418.54596  (21021919)
        557029.40   3777533.38      407.73341  (23122321)              557049.40
3777533.38      371.11845  (23120518)
        557069.40   3777533.38      307.78830  (18031005)              557089.40
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        557109.40   3777533.38      212.04053  (21112818)              557129.40
3777533.38      217.31640  (21020119)
        557149.40   3777533.38      222.34040  (21020119)              557169.40
3777533.38      212.48533  (21020119)
        557189.40   3777533.38      198.48152  (19021106)              557209.40
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        557229.40   3777533.38      179.88033  (19120718)              557249.40
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        557309.40   3777533.38      145.33252  (21012207)                557329.40
3777533.38      140.62054  (21012207)
        557349.40   3777533.38      132.78162  (21012207)                557369.40
3777533.38      129.97403  (20070505)
        557389.40   3777533.38      134.80200  (18110803)                557409.40
3777533.38      139.71230  (23092605)
        557429.40   3777533.38      141.41650  (23092605)                557449.40
3777533.38      141.35452  (23122320)
        557469.40   3777533.38      140.84067  (23122320)                557489.40
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3777553.38      528.93048  (20071506)
        556549.40   3777553.38      559.05711  (19050406)                556569.40
3777553.38      540.20255  (21040224)
        556589.40   3777553.38      564.45196  (19042604)                556609.40
3777553.38      587.39805  (18021301)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE 102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FUELING  ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3777553.38      402.43037  (19011519)
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        557149.40   3777553.38      202.19619  (21020119)              557169.40
3777553.38      204.56406  (21020119)
        557189.40   3777553.38      195.14176  (21020119)              557209.40
3777553.38      183.48050  (19021106)
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3777553.38      167.13614  (19120718)
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3777553.38      143.02102  (18091703)
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3777553.38      134.77301  (21012207)
        557349.40   3777553.38      131.96804  (21012207)              557369.40
3777553.38      126.08409  (21012207)
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        557429.40   3777553.38      126.26441  (18110803)              557449.40
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        557469.40   3777553.38      130.47300  (23092605)              557489.40
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        556732.35   3776929.14     1014.24433  (19112924)              556752.35
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        556772.35   3776929.14     1086.41124  (20050906)              556792.35
3776929.14     1096.34550  (19122218)
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3776929.14     1137.24147  (21012701)
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3776969.14     1212.91489  (19020324)
        556732.35   3776969.14     1171.17325  (20090403)                556752.35
3776969.14     1222.11426  (19112924)
        556772.35   3776969.14     1345.88659  (20050906)                556792.35
3776969.14     1334.41100  (19122218)
        556812.35   3776969.14     1352.21407  (20092605)                556832.35
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        556852.35   3776969.14     1304.84640  (18120320)                556672.35
3776989.14     1258.46736  (18123020)
        556692.35   3776989.14     1326.15531  (21010719)                556712.35
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 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE 103
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FUELING  ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        556732.35   3777009.14     1543.40707  (19020324)              556752.35
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        556772.35   3777009.14     1505.54955  (19112924)              556792.35
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        556812.35   3777009.14     1620.03357  (18030104)              556832.35
3777009.14     1671.13420  (18122018)
        556852.35   3777009.14     1626.29629  (23012120)              556672.35
3777029.14     1461.47598  (19011501)
        556692.35   3777029.14     1502.57743  (20111119)              556712.35
3777029.14     1610.21225  (20111219)
        556732.35   3777029.14     1665.21638  (18102919)              556752.35
3777029.14     1704.59202  (19020324)
        556772.35   3777029.14     1708.88854  (19112924)              556792.35
3777029.14     1897.96801  (20050906)
        556812.35   3777029.14     1851.21500  (19122218)              556832.35
3777029.14     1858.84436  (18122018)
        556852.35   3777029.14     1840.13660  (23012120)              556672.35
3777049.14     1503.02164  (21102119)
        556692.35   3777049.14     1697.34404  (19011501)              556712.35
3777049.14     1771.44299  (18123020)
        556732.35   3777049.14     1905.87202  (21010719)              556752.35
3777049.14     1991.58693  (19020324)
        556772.35   3777049.14     1877.79400  (20090403)              556792.35
3777049.14     2049.07913  (20050906)
        556812.35   3777049.14     2103.61514  (19122218)              556832.35
3777049.14     2074.19201  (18122018)
        556852.35   3777049.14     2094.96438  (23012120)              556927.54
3776959.53     1241.08270  (20012020)
        556947.54   3776959.53     1175.68065  (20021203)              556967.54
3776959.53     1145.16296  (21012124)
        556987.54   3776959.53     1063.33629  (23111604)              557007.54
3776959.53      764.41272  (23111604)
        557027.54   3776959.53      420.90875  (23111604)              557047.54
3776959.53      184.62730  (23111604)
        557067.54   3776959.53      162.65737  (21020820)              557087.54
3776959.53      148.96094  (21020820)
        556927.54   3776979.53     1357.33929  (19102619)              556947.54
3776979.53     1292.57267  (18041422)
        556967.54   3776979.53     1247.16400  (23111604)              556987.54
3776979.53      994.12224  (23111604)
        557007.54   3776979.53      580.39094  (23111604)              557027.54
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3776979.53      258.91943  (23111604)
        557047.54   3776979.53      185.61834  (21020820)                557067.54
3776979.53      168.80479  (21020820)
        557087.54   3776979.53      172.78329  (21011318)                556927.54
3776999.53     1478.70744  (20021203)
        556947.54   3776999.53     1437.66858  (21012124)                556967.54
3776999.53     1268.21545  (23111604)
        556987.54   3776999.53      804.76729  (23111604)                557007.54
3776999.53      370.31532  (23111604)
        557027.54   3776999.53      214.68693  (21020820)                557047.54
3776999.53      196.17703  (21011318)
        557067.54   3776999.53      199.95837  (21011318)                557087.54
3776999.53      193.58809  (21011318)
        556927.54   3777019.53     1638.85668  (18041422)                556947.54
3777019.53     1563.38145  (23111604)
        556967.54   3777019.53     1114.29793  (23111604)                556987.54
3777019.53      540.34605  (23111604)
        557007.54   3777019.53      252.43470  (21020820)                557027.54
3777019.53      232.84316  (21011318)
        557047.54   3777019.53      234.36183  (21011318)                557067.54
3777019.53      222.70744  (21011318)
        557087.54   3777019.53      236.31530  (19020905)                556927.54
3777039.53     1871.83846  (21012124)
        556947.54   3777039.53     1523.31337  (23111604)                556967.54
3777039.53      803.59433  (23111604)
        556987.54   3777039.53      302.99404  (21020820)                557007.54
3777039.53      281.71151  (21011318)
        557027.54   3777039.53      278.88684  (21011318)                557047.54
3777039.53      272.02021  (19020905)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 104
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        556269.05   3777012.85      405.25765  (19122921)                556289.05
3777012.85      438.43895  (19122921)
        556309.05   3777012.85      508.61663  (19122921)                556329.05
3777012.85      527.29740  (19122921)
        556209.05   3777032.85      377.13899  (18123019)                556229.05
3777032.85      393.04833  (18123019)
        556249.05   3777032.85      406.80037  (18123019)                556269.05
3777032.85      417.33668  (18123019)
        556289.05   3777032.85      431.66800  (21101420)                556309.05
3777032.85      444.02595  (21101420)
        556209.05   3777052.85      373.01909  (20041705)                556229.05
3777052.85      386.98339  (20041705)
        556249.05   3777052.85      400.12555  (20041705)                556269.05
3777052.85      425.22817  (18123019)
        556289.05   3777052.85      450.33202  (18123019)                556309.05
3777052.85      473.15973  (18123019)
        556249.05   3777072.85      396.43488  (20041705)                556269.05
3777072.85      421.38656  (20041705)
        556289.05   3777072.85      445.36243  (20041705)                556269.05
3777092.85      435.52080  (19112020)
        556441.69   3776927.49      656.48596  (20011220)                556461.69
3776927.49      712.54474  (20011220)
        556481.69   3776927.49      691.79809  (20011220)                556421.69
3776947.49      652.46799  (21012120)
        556441.69   3776947.49      705.39256  (21120418)                556461.69
3776947.49      720.73934  (21120418)
        556481.69   3776947.49      757.24401  (20011220)                556401.69
3776967.49      622.65339  (19020201)
        556421.69   3776967.49      645.00815  (21122822)                556441.69
3776967.49      690.13235  (19120424)
        556461.69   3776967.49      734.30657  (21120418)                556481.69
3776967.49      790.66574  (21120418)
        556401.69   3776987.49      652.05352  (19020201)                556421.69
3776987.49      694.11327  (19020201)
 *** AERMOD - VERSION 24142  ***   ***
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 *** AERMET - VERSION  22112 ***   ***
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                                 PAGE 105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FUELING  ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL3
, VOL5        , VOL7        , VOL10       ,
                VOL11       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF TOG IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556441.69	3776987.49	699.42010	(19020201)	556461.69	3776987.49	724.04580	(21122822)
556481.69	3776987.49	774.08357	(19120424)	556421.69	3777007.49	666.13456	(19113019)
556441.69	3777007.49	728.57430	(19020201)	556461.69	3777007.49	782.73311	(19020201)
556481.69	3777007.49	792.53396	(19020201)	556441.69	3777027.49	662.72856	(23110417)
556461.69	3777027.49	744.01235	(19113019)	556481.69	3777027.49	813.83820	(19020201)
556251.24	3777154.95	437.79602	(21120218)	556261.28	3777141.20	445.07249	(19020922)
556264.98	3777168.16	440.10764	(21120218)	556279.25	3777151.77	463.49930	(21120218)
556202.60	3777113.45	382.90831	(19081106)	556220.05	3777109.75	395.22271	(19090702)
556187.53	3777090.19	369.59441	(23111620)	556164.27	3777121.38	361.32041	(19020922)
557510.26	3776508.23	114.56388	(19062905)	557530.26	3776508.23	116.01647	(19062905)
557550.26	3776508.23	113.82883	(19062905)	557570.26	3776508.23	108.73443	(19062905)
557590.26	3776508.23	101.84808	(19062905)	557610.26	3776508.23	93.79658	(19062905)
557630.26	3776508.23	85.10117	(20100702)	557650.26	3776508.23	80.17392	(21011318)
557670.26	3776508.23	84.85361	(21011318)	557690.26	3776508.23	87.51195	(21011318)
557510.26	3776528.23	118.35827	(19062905)	557530.26	3776528.23	115.87203	(19062905)
557550.26	3776528.23	110.67341	(19062905)	557570.26	3776528.23	102.63213	(19062905)
557590.26	3776528.23	93.99548	(19062905)	557610.26	3776528.23	85.43018	(20100702)
557630.26	3776528.23	83.14998	(21011318)	557650.26	3776528.23	88.03836	(21011318)
557670.26	3776528.23	90.26981	(21011318)	557690.26	3776528.23	91.08321	(21011318)
557510.26	3776548.23	116.95980	(19062905)	557530.26	3776548.23	112.06741	(19062905)
557550.26	3776548.23	103.01016	(19062905)	557570.26			

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3776548.23       93.28449  (19062905)
        557590.26   3776548.23       84.92238  (20100702)                557610.26
3776548.23       85.14146  (21011318)
        557630.26   3776548.23       89.28390  (21011318)                557650.26
3776548.23       92.09995  (21011318)
        557670.26   3776548.23       92.32934  (21011318)                557690.26
3776548.23       91.32707  (21011318)
        557510.26   3776568.23      111.62213  (19062905)                557530.26
3776568.23      103.96236  (19062905)
        557550.26   3776568.23       93.77736  (19062905)                557570.26
3776568.23       83.91691  (20100702)
        557590.26   3776568.23       86.71716  (21011318)                557610.26
3776568.23       89.89198  (21011318)
        557630.26   3776568.23       91.66829  (21011318)                557650.26
3776568.23       92.55326  (21011318)
        557670.26   3776568.23       90.67274  (21011318)                557690.26
3776568.23       87.40156  (21011318)
        557510.26   3776588.23      102.80047  (19062905)                557530.26
3776588.23       93.89236  (19062905)
        557550.26   3776588.23       84.92936  (21011318)                557570.26
3776588.23       87.79019  (21011318)
        557590.26   3776588.23       89.52785  (21011318)                557610.26
3776588.23       90.26437  (21011318)
        557630.26   3776588.23       90.65254  (21011318)                557650.26
3776588.23       89.30200  (21011318)
        557670.26   3776588.23       86.21503  (21011318)                557690.26
3776588.23       82.01969  (21011318)
        557510.26   3776608.23       91.56954  (19062905)                557530.26
3776608.23       87.02914  (21011318)
        557550.26   3776608.23       89.58645  (21011318)                557570.26
3776608.23       90.05937  (21011318)
        557590.26   3776608.23       88.72959  (21011318)                557610.26
3776608.23       87.33613  (21011318)
        557630.26   3776608.23       85.91266  (21011318)                557650.26
3776608.23       82.80679  (21011318)
        557670.26   3776608.23       78.29969  (21011318)                557690.26
3776608.23       73.01841  (21011318)
        557510.26   3776628.23       87.22364  (21011318)                557530.26
3776628.23       90.07189  (21011318)
 *** AERMOD - VERSION 24142  ***   ***
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08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 106
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  FUELING  ***
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INCLUDING SOURCE(S): VOL1 , VOL3 , VOL5 , VOL7 , VOL10 , VOL11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557550.26	3776628.23	89.40471	(21011318)	557570.26	3776628.23	89.85174	(21011318)
557590.26	3776628.23	84.70911	(21011318)	557610.26	3776628.23	81.56215	(21011318)
557630.26	3776628.23	78.13928	(21011318)	557650.26	3776628.23	74.57834	(21011318)
557670.26	3776628.23	70.50088	(18120608)	557690.26	3776628.23	68.92010	(18120608)
557510.26	3776648.23	88.36496	(21011318)	557530.26	3776648.23	87.62613	(21011318)
557550.26	3776648.23	84.51758	(21011318)	557570.26	3776648.23	79.93795	(21011318)
557590.26	3776648.23	76.96844	(21011318)	557610.26	3776648.23	72.35818	(21011318)
557630.26	3776648.23	68.67674	(21011318)	557650.26	3776648.23	67.11103	(18120608)
557670.26	3776648.23	64.88375	(18120608)	557690.26	3776648.23	62.50729	(18120608)
557510.26	3776668.23	83.36251	(21011318)	557530.26	3776668.23	80.58635	(21011318)
557550.26	3776668.23	75.80352	(21011318)	557570.26	3776668.23	70.51112	(21011318)
557590.26	3776668.23	68.08725	(21011318)	557610.26	3776668.23	61.46416	(18120608)
557630.26	3776668.23	60.28443	(18120608)	557650.26	3776668.23	59.73691	(18120608)
557670.26	3776668.23	61.20772	(21103006)	557690.26	3776668.23	64.55794	(19020905)
557510.26	3776688.23	74.96763	(21011318)	557530.26	3776688.23	45.44688	(21011318)
557550.26	3776688.23	43.54386	(21011318)	557570.26	3776688.23	41.35316	(21011318)
557590.26	3776688.23	42.00647	(21103006)	557610.26	3776688.23	44.40597	(19020905)
557630.26	3776688.23	46.82060	(19020905)	557650.26	3776688.23	48.88055	(19020905)

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        557670.26   3776688.23       50.56732  (19020905)                557690.26
3776688.23       51.86326  (19020905)
        556172.49   3776517.81      273.05573  (23092301)                556192.49
3776517.81      285.81372  (20111119)
        556212.49   3776517.81      279.92221  (20111119)                556232.49
3776517.81      283.35569  (18123020)
        556252.49   3776517.81      283.96684  (18123020)                556272.49
3776517.81      288.41088  (20111219)
        556292.49   3776517.81      293.75269  (20111219)                556312.49
3776517.81      289.19975  (21010719)
        556332.49   3776517.81      294.03029  (21010719)                556352.49
3776517.81      291.68379  (18102919)
        556372.49   3776517.81      266.82945  (20012518)                556392.49
3776517.81      287.99642  (19020324)
        556412.49   3776517.81      304.22256  (19020324)                556432.49
3776517.81      277.31325  (19020324)
        556452.49   3776517.81      274.28601  (23111719)                556472.49
3776517.81      294.24032  (23071306)
        556492.49   3776517.81      281.37245  (23071306)                556172.49
3776537.81      264.12958  (23092301)
        556192.49   3776537.81      282.31578  (23092301)                556212.49
3776537.81      293.59039  (20111119)
        556232.49   3776537.81      288.88766  (20111119)                556252.49
3776537.81      294.38947  (18123020)
        556272.49   3776537.81      290.77637  (18123020)                556292.49
3776537.81      302.22660  (20111219)
        556312.49   3776537.81      302.53053  (20111219)                556332.49
3776537.81      307.31133  (21010719)
        556352.49   3776537.81      308.45328  (18102919)                556372.49
3776537.81      292.60875  (18102919)
        556392.49   3776537.81      275.32886  (20031603)                556412.49
3776537.81      306.29624  (19020324)
        556432.49   3776537.81      309.71808  (19020324)                556452.49
3776537.81      288.37247  (23111719)
        556472.49   3776537.81      294.13895  (23071306)                556492.49
3776537.81      305.90544  (23071306)
        556332.49   3776557.81      316.78571  (20111219)                556352.49
3776557.81      319.03245  (21010719)
        556372.49   3776557.81      320.53842  (18102919)                556392.49
3776557.81      299.13948  (20012518)
        556412.49   3776557.81      298.09386  (19020324)                556432.49
3776557.81      328.02266  (19020324)
        556452.49   3776557.81      308.51510  (19020324)                556472.49
3776557.81      304.45008  (23111719)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: FUELING ***
INCLUDING SOURCE(S): VOL1 , VOL3 , VOL5 , VOL7 , VOL10 , VOL11 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556492.49	3776557.81	317.84432	(23071306)	556332.49	3776577.81	335.24130	(20111219)
556352.49	3776577.81	323.44312	(20111219)	556372.49	3776577.81	335.32238	(21010719)
556392.49	3776577.81	334.42702	(18102919)	556412.49	3776577.81	314.05936	(20012518)
556432.49	3776577.81	326.47516	(19020324)	556452.49	3776577.81	342.60964	(19020324)
556472.49	3776577.81	320.50698	(23111719)	556492.49	3776577.81	317.15820	(23111719)
556332.49	3776597.81	333.29860	(20111219)	556352.49	3776597.81	352.96100	(20111219)
556372.49	3776597.81	340.05203	(21010719)	556392.49	3776597.81	343.74602	(21010719)
556412.49	3776597.81	344.82308	(18102919)	556432.49	3776597.81	319.14280	(20031603)
556452.49	3776597.81	347.31041	(19020324)	556472.49	3776597.81	348.74834	(19020324)
556492.49	3776597.81	341.17231	(23111719)	556252.49	3776617.81	310.69491	(23092301)
556272.49	3776617.81	334.11538	(23092301)	556292.49	3776617.81	348.83225	(20111119)
556312.49	3776617.81	342.10601	(20111119)	556332.49	3776617.81	356.61049	(18123020)
556352.49	3776617.81	354.24448	(20111219)	556372.49	3776617.81	371.28358	(20111219)
556392.49	3776617.81	363.01856	(21010719)	556412.49	3776617.81	368.81477	(18102919)
556432.49	3776617.81	349.24939	(18102919)	556452.49	3776617.81	342.04579	(19020324)
556472.49	3776617.81	369.99318	(19020324)	556492.49			

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3776617.81      360.02786  (19020324)
        556252.49   3776637.81      343.78166  (19011501)              556272.49
3776637.81      325.11372  (23092301)
        556292.49   3776637.81      349.98989  (23092301)              556312.49
3776637.81      364.26958  (20111119)
        556332.49   3776637.81      357.31300  (20111119)              556352.49
3776637.81      378.33236  (18123020)
        556372.49   3776637.81      378.70229  (20111219)              556392.49
3776637.81      383.60251  (20111219)
        556412.49   3776637.81      384.38898  (21010719)              556432.49
3776637.81      384.15246  (18102919)
        556452.49   3776637.81      358.47326  (20012518)              556472.49
3776637.81      374.20882  (19020324)
        556492.49   3776637.81      396.99111  (19020324)              556252.49
3776657.81      365.75038  (19011501)
        556272.49   3776657.81      364.65889  (19011501)              556292.49
3776657.81      340.88820  (23092301)
        556312.49   3776657.81      363.61998  (23092301)              556332.49
3776657.81      385.08907  (20111119)
        556352.49   3776657.81      379.95723  (18123020)              556372.49
3776657.81      401.39915  (18123020)
        556392.49   3776657.81      396.22587  (20111219)              556412.49
3776657.81      395.79864  (20111219)
        556432.49   3776657.81      400.13593  (21010719)              556452.49
3776657.81      396.65539  (18102919)
        556472.49   3776657.81      366.21492  (20012518)              556492.49
3776657.81      409.42210  (19020324)
        556252.49   3776677.81      352.30961  (18031106)              556272.49
3776677.81      379.15825  (19011501)
        556292.49   3776677.81      380.67336  (19011501)              556312.49
3776677.81      352.79250  (23092301)
        556332.49   3776677.81      385.96096  (23092301)              556352.49
3776677.81      406.47890  (20111119)
        556372.49   3776677.81      402.82822  (18123020)              556392.49
3776677.81      414.52597  (18123020)
        556412.49   3776677.81      421.73917  (20111219)              556432.49
3776677.81      406.99715  (20111219)
        556452.49   3776677.81      414.89676  (21010719)              556472.49
3776677.81      408.59398  (18102919)
        556492.49   3776677.81      392.80421  (19020324)              556252.49
3776697.81      351.07888  (19122922)
        556272.49   3776697.81      365.12092  (18031106)              556372.49
3776697.81      426.78439  (20111119)
        556392.49   3776697.81      418.96088  (18123020)              556412.49
3776697.81      432.21525  (18123020)
        556432.49   3776697.81      438.44364  (20111219)              556452.49
3776697.81      422.16215  (21010719)
        556472.49   3776697.81      433.87024  (18102919)              556492.49
3776697.81      418.54113  (18102919)
 *** AERMOD - VERSION 24142  ***   ***
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: FUELING ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL3
, VOL5   , VOL7   , VOL10   ,
                VOL11   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556252.49   3776717.81   374.04793 (21102119)   556272.49
3776717.81   361.49618 (19122922)
        556372.49   3776717.81   427.68482 (23092301)   556392.49
3776717.81   441.10640 (20111119)
        556412.49   3776717.81   445.21070 (18123020)   556432.49
3776717.81   447.72250 (18123020)
        556452.49   3776717.81   457.26773 (20111219)   556472.49
3776717.81   460.92077 (21010719)
        556492.49   3776717.81   462.29985 (18102919)   556267.40
3776875.81   434.76639 (19120424)
        556239.03   3776853.02   420.10718 (19120424)   556178.76
3776751.21   370.09125 (20011220)
        556154.45   3776774.51   373.38375 (21120418)   556119.50
3776705.11   339.95745 (20011220)
        556146.51   3777267.93   326.80515 (18102619)   556151.00
3777234.88   333.80869 (19042703)
        556144.93   3777179.58   329.86628 (21062203)   556205.18
3777236.46   374.94085 (20020620)
        556218.00   3777200.04   384.80262 (21110618)   556773.51
3777349.00   1191.49810 (19082804)

*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL ***
INCLUDING SOURCE(S): VOL2 , VOL4 , VOL6 , VOL8 , VOL9 , VOL12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556521.71	3777341.57	907.08063	(20121320)	556539.90	3777344.94	946.63929	(19011504)
556591.78	3777345.39	1196.21828	(19042706)	556630.62	3777349.66	1364.53830	(19011708)
556684.29	3777349.43	1570.45823	(23123121)	556905.58	3777351.19	1266.11641	(19011619)
556920.93	3777350.82	1210.18610	(21021919)	556942.87	3777350.09	1115.18544	(23120518)
556996.26	3777348.26	685.35788	(21020119)	557096.81	3777357.77	397.62297	(23120121)
557115.83	3777363.62	387.77755	(18110803)	557129.36	3777361.43	413.81798	(23092605)
557230.65	3777363.99	336.25404	(18120207)	556466.22	3776816.07	602.25574	(23092301)
556407.87	3776826.19	550.00985	(19122922)	556381.07	3776807.14	510.99227	(19122922)
556404.29	3776771.52	509.84719	(19011501)	556465.21	3776739.51	537.12256	(20111219)
556396.10	3776739.93	498.24890	(23092301)	556323.99	3777265.43	550.99469	(19042702)
556330.60	3777233.99	568.22140	(20020620)	556321.08	3777200.43	553.88112	(21100603)
556275.11	3777267.81	491.91440	(19042702)	556278.28	3777233.46	498.18751	(20020620)
556509.40	3777373.38	829.16776	(19120617)	556529.40	3777373.38	926.98746	(19042706)
556549.40	3777373.38	960.31992	(19042706)	556569.40	3777373.38	991.20904	(18042302)
556589.40	3777373.38	1093.14271	(19011708)	556609.40	3777373.38	1160.34158	(19120722)
556629.40	3777373.38	1185.96632	(19042503)	556649.40			

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3777373.38     1253.57665  (23123121)
        556669.40   3777373.38     1339.54115  (19050706)                556689.40
3777373.38     1450.60347  (19050406)
        556709.40   3777373.38     1462.14539  (18042604)                556729.40
3777373.38     1550.32609  (18021301)
        556749.40   3777373.38     1400.06272  (20032007)                556769.40
3777373.38     1000.18899  (21020118)
        556789.40   3777373.38     1039.85110  (19011519)                556809.40
3777373.38     1073.29014  (23122418)
        556829.40   3777373.38     1069.23395  (19120423)                556849.40
3777373.38     1106.83827  (23102701)
        556869.40   3777373.38     1158.87130  (19121218)                556889.40
3777373.38     1135.35378  (21122017)
        556909.40   3777373.38     1088.99959  (19011703)                556929.40
3777373.38     1033.26817  (21021919)
        556949.40   3777373.38      999.48224  (23120518)                556969.40
3777373.38      770.47409  (18031005)
        556989.40   3777373.38      550.76680  (21112818)                557009.40
3777373.38      579.32680  (21020119)
        557029.40   3777373.38      526.28894  (19021106)                557049.40
3777373.38      487.94864  (19120718)
        557069.40   3777373.38      421.38538  (19120718)                557089.40
3777373.38      391.75989  (21012207)
        557109.40   3777373.38      370.60751  (21012207)                557129.40
3777373.38      354.87237  (18110803)
        557149.40   3777373.38      376.47503  (23092605)                557169.40
3777373.38      378.85509  (23122320)
        557189.40   3777373.38      373.83434  (23122320)                557209.40
3777373.38      351.14083  (23122320)
        557229.40   3777373.38      316.65198  (20031506)                557249.40
3777373.38      312.64523  (18120207)
        557269.40   3777373.38      306.56279  (18120207)                557289.40
3777373.38      293.35482  (18120207)
        557309.40   3777373.38      274.46539  (18120207)                557329.40
3777373.38      255.36273  (21122222)
        557349.40   3777373.38      245.50652  (23122120)                557369.40
3777373.38      238.83135  (23122120)
        557389.40   3777373.38      229.21890  (23122120)                557409.40
3777373.38      217.42160  (23122120)
        557429.40   3777373.38      209.25709  (19011701)                557449.40
3777373.38      202.26692  (19011701)
        557469.40   3777373.38      193.31861  (19011701)                557489.40
3777373.38      182.31394  (19011701)
        556509.40   3777393.38      839.27474  (19042706)                556529.40
3777393.38      845.00455  (21070703)
        556549.40   3777393.38      888.72117  (23091905)                556569.40
3777393.38      986.11142  (19011708)
        556589.40   3777393.38     1028.74090  (19122606)                556609.40
3777393.38     1048.97208  (19042503)
 *** AERMOD - VERSION 24142  ***   ***
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   , VOL4
, VOL6   , VOL8   , VOL9   ,
                VOL12   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                 **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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        557149.40   3777393.38      304.54801  (23120121)              557169.40
3777393.38      315.69193  (18110803)
        557189.40   3777393.38      327.49024  (23092605)              557209.40
3777393.38      329.42510  (23122320)
        557229.40   3777393.38      323.02930  (23122320)              557249.40
3777393.38      302.50325  (23122320)
        557269.40   3777393.38      274.95847  (20031506)              557289.40
3777393.38      269.85787  (18120207)
        557309.40   3777393.38      266.60761  (18120207)              557329.40
3777393.38      258.85964  (18120207)
        557349.40   3777393.38      245.13542  (18120207)              557369.40
3777393.38      229.48838  (21122222)
        557389.40   3777393.38      215.59686  (21122222)              557409.40
3777393.38      210.70611  (23122120)
        557429.40   3777393.38      204.98553  (23122120)              557449.40
3777393.38      197.46891  (23122120)
        557469.40   3777393.38      187.57408  (23122120)              557489.40
3777393.38      180.28728  (19011701)
        556509.40   3777413.38      766.39011  (18042302)              556529.40
3777413.38      815.20360  (19011708)
        556549.40   3777413.38      892.16726  (19011708)              556569.40
3777413.38      924.44133  (19122606)
        556589.40   3777413.38      938.09136  (19042503)              556609.40
3777413.38      999.43694  (23123121)
        556629.40   3777413.38     1054.58634  (19020405)              556649.40
3777413.38     1108.11623  (20071506)
        556669.40   3777413.38     1163.77039  (19050406)              556689.40
3777413.38     1179.36515  (21091102)
        556709.40   3777413.38     1251.00986  (20032007)              556729.40
3777413.38     1069.61462  (20032007)
        556749.40   3777413.38      793.05231  (21020118)              556769.40
3777413.38      822.83143  (19011519)
        556789.40   3777413.38      829.45440  (21120318)              556809.40
3777413.38      831.03540  (23122418)
        556829.40   3777413.38      840.29813  (21012523)              556849.40
3777413.38      870.88490  (23102701)
        556869.40   3777413.38      909.16599  (21020220)              556889.40
3777413.38      904.15735  (21011317)
        556909.40   3777413.38      858.67638  (23010920)              556929.40
3777413.38      858.20882  (19011619)
        556949.40   3777413.38      813.38817  (21021919)              556969.40
3777413.38      785.86843  (23120518)
        556989.40   3777413.38      640.50120  (18031005)              557009.40
3777413.38      453.45950  (21012919)
        557029.40   3777413.38      431.57978  (21020119)              557049.40
3777413.38      441.10219  (21020119)
        557069.40   3777413.38      402.17131  (19021106)              557089.40
3777413.38      376.84037  (19120718)
        557109.40   3777413.38      339.87861  (19120718)              557129.40
3777413.38      306.91434  (18091703)
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        557229.40   3777413.38   288.82041 (23092605)   557249.40
3777413.38   288.86331 (23122320)
        557269.40   3777413.38   281.50561 (23122320)   557289.40
3777413.38   264.62128 (23122320)
        557309.40   3777413.38   241.93783 (20031506)   557329.40
3777413.38   235.38788 (18120207)
        557349.40   3777413.38   236.19225 (18120207)   557369.40
3777413.38   230.01313 (18120207)
        557389.40   3777413.38   220.80751 (18120207)   557409.40
3777413.38   207.98294 (18120207)
        557429.40   3777413.38   195.53021 (21122222)   557449.40
3777413.38   186.02909 (23122120)
        557469.40   3777413.38   183.64360 (23122120)   557489.40
3777413.38   178.21280 (23122120)
        556509.40   3777433.38   764.96908 (19011708)   556529.40
3777433.38   802.04637 (19120722)
        556549.40   3777433.38   825.36607 (19122606)   556569.40
3777433.38   835.75670 (19042503)
        556589.40   3777433.38   900.24819 (23123121)   556609.40
3777433.38   946.82726 (19020405)
        556629.40   3777433.38   1001.69248 (19011118)   556649.40

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3777433.38     1060.84779  (19050406)
        556669.40   3777433.38     1046.24183  (18042604)                556689.40
3777433.38     1114.89948  (18021301)
        556709.40   3777433.38     1087.71403  (20032007)                556729.40
3777433.38      763.25648  (19082804)
        556749.40   3777433.38      683.39219  (21020118)                556769.40
3777433.38      745.45487  (19011519)
        556789.40   3777433.38      756.76792  (21120318)                556809.40
3777433.38      749.59927  (19011407)
        556829.40   3777433.38      755.99898  (21012523)                556849.40
3777433.38      780.97064  (23102701)
        556869.40   3777433.38      817.26641  (19011324)                556889.40
3777433.38      807.03432  (21011317)
        556909.40   3777433.38      777.61054  (23010920)                556929.40
3777433.38      772.91619  (19011703)
        556949.40   3777433.38      750.25548  (18020118)                556969.40
3777433.38      725.49756  (23122321)
        556989.40   3777433.38      658.30829  (23120518)                557009.40
3777433.38      508.63460  (18031005)
        557029.40   3777433.38      386.38595  (21012919)                557049.40
3777433.38      390.44484  (21020119)
        557069.40   3777433.38      391.37029  (21020119)                557089.40
3777433.38      357.79835  (19021106)
        557109.40   3777433.38      336.85774  (19120718)                557129.40
3777433.38      306.69776  (19120718)
        557149.40   3777433.38      277.49001  (18091703)                557169.40
3777433.38      263.88518  (21012207)
        557189.40   3777433.38      254.76304  (21012207)                557209.40
3777433.38      237.21551  (23120121)
        557229.40   3777433.38      240.39037  (18110803)                557249.40
3777433.38      253.61353  (23092605)
        557269.40   3777433.38      255.87281  (23092605)                557289.40
3777433.38      255.38602  (23122320)
        557309.40   3777433.38      248.91230  (23122320)                557329.40
3777433.38      233.73003  (23122320)
        557349.40   3777433.38      213.86706  (20031506)                557369.40
3777433.38      207.04994  (18120207)
        557389.40   3777433.38      209.92061  (18120207)                557409.40
3777433.38      207.19895  (18120207)
        557429.40   3777433.38      198.85566  (18120207)                557449.40
3777433.38      189.10715  (18120207)
        557469.40   3777433.38      178.51955  (21122222)                557489.40
3777433.38      169.13411  (21122222)
        556509.40   3777453.38      729.72832  (19120722)                556529.40
3777453.38      740.58581  (19122606)
        556549.40   3777453.38      754.85085  (19042503)                556569.40
3777453.38      814.24018  (23123121)
        556589.40   3777453.38      854.65965  (19020405)                556609.40
3777453.38      905.11147  (19011118)
        556629.40   3777453.38      960.80029  (19050406)                556649.40
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3777453.38      944.64977  (18042604)
        556669.40   3777453.38      984.08009  (21091102)                556689.40
3777453.38     1031.62677  (20032007)
        556709.40   3777453.38      847.35446  (20032007)                556729.40
3777453.38      649.54946  (21020118)
        556749.40   3777453.38      646.90658  (19011519)                556769.40
3777453.38      658.15926  (19011519)
        556789.40   3777453.38      686.83273  (23122418)                556809.40
3777453.38      687.28658  (19011407)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE 112
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SPILL    ***
                                  INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                 VOL12       ,

                                           *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556829.40   3777453.38      687.05619  (21012523)                556849.40
3777453.38      711.99557  (23102701)
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        557029.40   3777453.38      396.61466  (20090303)                557049.40
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        557069.40   3777453.38      352.63207  (21020119)                557089.40
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        557109.40   3777453.38      321.48673  (19021106)                557129.40
3777453.38      302.57341  (19120718)
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        557269.40   3777453.38      220.32305  (18110803)              557289.40
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        557309.40   3777453.38      228.75151  (23122320)              557329.40
3777453.38      228.61101  (23122320)
        557349.40   3777453.38      221.65339  (23122320)              557369.40
3777453.38      207.89578  (23122320)
        557389.40   3777453.38      192.46464  (20031506)              557409.40
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        557429.40   3777453.38      187.78185  (18120207)              557449.40
3777453.38      186.05958  (18120207)
        557469.40   3777453.38      180.88012  (18120207)              557489.40
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        556549.40   3777473.38      739.48054  (23123121)              556569.40
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        556669.40   3777473.38      929.87227  (18021301)              556689.40
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        556709.40   3777473.38      612.98550  (19082804)              556729.40
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        556749.40   3777473.38      610.93909  (19011519)              556769.40
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 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
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                                 PAGE 113
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3777493.38      782.13706  (19050406)
        556629.40   3777493.38      793.44054  (19042604)                556649.40
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 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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                                  PAGE 114
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SPILL    ***
                                  INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 115
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
               VOL12       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        557189.40   3777553.38      217.75840  (21020119)              557209.40
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3777553.38      144.44319  (23122320)
        557438.91   3777336.71      209.67830  (20013120)              556615.91
3777136.99     1608.72076  (20041705)
        556586.37   3777056.16     1178.74221  (20022824)              556672.35
3776929.14     1088.68800  (19020324)
        556692.35   3776929.14     1066.98976  (20012218)              556712.35
3776929.14     1065.41422  (20090403)
        556732.35   3776929.14     1115.00361  (19112924)              556752.35
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3776929.14     1189.82005  (18121720)
        556772.35   3776929.14     1178.25664  (20050906)                556792.35
3776929.14     1196.65146  (19122218)
        556812.35   3776929.14     1231.22106  (20092605)                556832.35
3776929.14     1238.33761  (21012701)
        556852.35   3776929.14     1177.36296  (18120320)                556672.35
3776949.14     1167.50627  (20012518)
        556692.35   3776949.14     1222.02861  (19020324)                556712.35
3776949.14     1128.29506  (20102506)
        556732.35   3776949.14     1173.74699  (19112924)                556752.35
3776949.14     1205.54104  (18121720)
        556772.35   3776949.14     1334.60684  (20050906)                556792.35
3776949.14     1332.54656  (19122218)
        556812.35   3776949.14     1349.95686  (20092605)                556832.35
3776949.14     1348.27392  (18122018)
        556852.35   3776949.14     1281.97246  (18120320)                556672.35
3776969.14     1300.44223  (21010719)
        556692.35   3776969.14     1282.77336  (20012518)                556712.35
3776969.14     1327.84245  (19020324)
        556732.35   3776969.14     1281.91680  (20090403)                556752.35
3776969.14     1335.14337  (19112924)
        556772.35   3776969.14     1467.07932  (20050906)                556792.35
3776969.14     1453.12867  (19122218)
        556812.35   3776969.14     1469.34922  (20092605)                556832.35
3776969.14     1482.95575  (18122018)
        556852.35   3776969.14     1406.59418  (23101918)                556672.35
3776989.14     1388.91687  (18123020)
        556692.35   3776989.14     1461.87003  (21010719)                556712.35
3776989.14     1477.25897  (19020324)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        556732.35   3776989.14     1404.88560  (18121318)               556752.35
3776989.14     1454.16729  (19112924)
        556772.35   3776989.14     1557.27384  (18121720)               556792.35
3776989.14     1549.78607  (19122218)
        556812.35   3776989.14     1603.76623  (18030104)               556832.35
3776989.14     1631.17319  (18122018)
        556852.35   3776989.14     1557.18795  (23101918)               556672.35
3777009.14     1448.15342  (20111119)
        556692.35   3777009.14     1551.00898  (18123020)               556712.35
3777009.14     1628.61946  (21010719)
        556732.35   3777009.14     1691.17030  (19020324)               556752.35
3777009.14     1584.46511  (20090403)
        556772.35   3777009.14     1628.84176  (19112924)               556792.35
3777009.14     1814.84594  (20050906)
        556812.35   3777009.14     1744.16927  (18030104)               556832.35
3777009.14     1794.92605  (18122018)
        556852.35   3777009.14     1745.04520  (23012120)               556672.35
3777029.14     1617.86919  (19011501)
        556692.35   3777029.14     1660.25926  (20111119)               556712.35
3777029.14     1772.58378  (20111219)
        556732.35   3777029.14     1815.54225  (18102919)               556752.35
3777029.14     1842.97701  (19020324)
        556772.35   3777029.14     1849.03205  (19112924)               556792.35
3777029.14     2047.74246  (20050906)
        556812.35   3777029.14     1989.28731  (19122218)               556832.35
3777029.14     1984.42843  (18122018)
        556852.35   3777029.14     1966.81820  (23012120)               556672.35
3777049.14     1664.32914  (21102119)
        556692.35   3777049.14     1876.06657  (19011501)               556712.35
3777049.14     1937.91619  (18123020)
        556732.35   3777049.14     2080.59765  (21010719)               556752.35
3777049.14     2168.57925  (19020324)
        556772.35   3777049.14     2020.47641  (20090403)               556792.35
3777049.14     2189.99024  (20050906)
        556812.35   3777049.14     2249.46281  (19122218)               556832.35
3777049.14     2198.64883  (18122018)
        556852.35   3777049.14     2226.70909  (23012120)               556927.54
3776959.53     1353.50400  (20012020)
        556947.54   3776959.53     1285.09091  (20021203)               556967.54
3776959.53     1254.43581  (21012124)
        556987.54   3776959.53     1161.65855  (23111604)               557007.54
3776959.53      788.58843  (23111604)
        557027.54   3776959.53      384.98436  (23111604)               557047.54
3776959.53      187.31324  (23100204)
        557067.54   3776959.53      179.69926  (21020820)               557087.54
3776959.53      163.50628  (21020820)
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        556927.54   3776979.53     1479.17985  (19102619)                556947.54
3776979.53     1412.36450  (18041422)
        556967.54   3776979.53     1365.80639  (23111604)                556987.54
3776979.53     1054.70149  (23111604)
        557007.54   3776979.53      556.43900  (23111604)                557027.54
3776979.53      214.28474  (23100204)
        557047.54   3776979.53      204.86433  (21020820)                557067.54
3776979.53      185.08329  (21020820)
        557087.54   3776979.53      187.60087  (21011318)                556927.54
3776999.53     1606.56948  (20021203)
        556947.54   3776999.53     1568.57140  (21012124)                556967.54
3776999.53     1370.62891  (23111604)
        556987.54   3776999.53      805.68151  (23111604)                557007.54
3776999.53      318.20266  (23111604)
        557027.54   3776999.53      236.65724  (21020820)                557047.54
3776999.53      212.02751  (21020820)
        557067.54   3776999.53      217.86003  (21011318)                557087.54
3776999.53      213.66553  (21011318)
        556927.54   3777019.53     1776.23229  (18041422)                556947.54
3777019.53     1699.48163  (23111604)
        556967.54   3777019.53     1156.95388  (23111604)                556987.54
3777019.53      491.53605  (23111604)
        557007.54   3777019.53      277.83462  (21020820)                557027.54
3777019.53      247.78134  (21011318)
        557047.54   3777019.53      256.14259  (21011318)                557067.54
3777019.53      245.89067  (21011318)
        557087.54   3777019.53      239.87593  (19020905)                556927.54
3777039.53     2027.45719  (21012124)
        556947.54   3777039.53     1622.03705  (23111604)                556967.54
3777039.53      772.52157  (23111604)
        556987.54   3777039.53      332.79956  (21020820)                557007.54
3777039.53      300.98177  (21011318)
        557027.54   3777039.53      305.59266  (21011318)                557047.54
3777039.53      285.42177  (21011318)
 *** AERMOD - VERSION 24142  ***   ***
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08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 117
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF TOG IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557067.54	3777039.53	310.71655	(19020905)	557087.54	3777039.53	332.86233	(19020905)
557047.54	3777059.53	404.96096	(19020905)	557067.54	3777059.53	414.34040	(19020905)
557087.54	3777059.53	398.67412	(19020905)	556919.02	3777174.93	2629.81271	(19120102)
556939.02	3777174.93	1993.36388	(19120324)	556919.02	3777194.93	4068.76602	(21120718)
556939.02	3777194.93	3012.01022	(21120718)	556919.02	3777214.93	3427.11500	(18120207)
556939.02	3777214.93	2759.77451	(19011701)	556919.02	3777234.93	2376.17604	(18110803)
556939.02	3777234.93	2293.47114	(23122320)	556919.02	3777254.93	1854.69858	(19120718)
556939.02	3777254.93	1527.63652	(21012207)	557023.57	3777171.57	937.57107	(19120324)
557043.57	3777171.57	836.27873	(19120324)	557063.57	3777171.57	749.44237	(19120324)
557083.57	3777171.57	677.20099	(19120324)	557023.57	3777191.57	1247.62135	(19120324)
557043.57	3777191.57	1074.83309	(19120324)	557063.57	3777191.57	937.03185	(19120324)
557083.57	3777191.57	830.32456	(19120324)	557023.57	3777211.57	1224.89463	(20121124)
557043.57	3777211.57	1052.55567	(20121124)	557063.57	3777211.57	908.71147	(20121124)
557083.57	3777211.57	797.71956	(21120718)	557023.57	3777231.57	1195.76601	(20013120)
557043.57	3777231.57	1038.98171	(18120107)	557063.57	3777231.57	925.30165	(23122818)
557083.57	3777231.57	801.71325	(23122818)	557023.57	3777251.57	1115.05366	(23122120)
557043.57	3777251.57	989.70434	(19011701)	557063.57	3777251.57	890.00935	(19011701)
557083.57	3777251.57	765.13249	(20013120)	556249.05	3776972.85	448.21002	(23092902)
556269.05	3776972.85	452.31955	(23092902)	556229.05	3776992.85	423.01428	(19122921)
556249.05	3776992.85	471.41192	(19122921)	556269.05	3776992.85	486.68089	(19122921)
556289.05	3776992.85	506.75759	(23092902)	556309.05			

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3776992.85      519.65930  (23092902)
        556329.05   3776992.85      522.69795  (19022520)                556209.05
3777012.85      407.64622  (21101420)
        556229.05   3777012.85      416.22394  (21101420)                556249.05
3777012.85      427.86445  (19122422)
        556269.05   3777012.85      452.77118  (19122422)                556289.05
3777012.85      491.62406  (19122921)
        556309.05   3777012.85      547.44270  (19122921)                556329.05
3777012.85      566.57345  (19122921)
        556209.05   3777032.85      423.11399  (18123019)                556229.05
3777032.85      441.28567  (18123019)
        556249.05   3777032.85      455.93010  (18123019)                556269.05
3777032.85      465.61776  (18123019)
        556289.05   3777032.85      483.29883  (21101420)                556309.05
3777032.85      494.91891  (21101420)
        556209.05   3777052.85      418.88115  (20041705)                556229.05
3777052.85      434.28630  (20041705)
        556249.05   3777052.85      447.84738  (20041705)                556269.05
3777052.85      475.37864  (18123019)
        556289.05   3777052.85      505.20195  (18123019)                556309.05
3777052.85      531.28093  (18123019)
        556249.05   3777072.85      441.70638  (20041705)                556269.05
3777072.85      471.60338  (20041705)
        556289.05   3777072.85      499.80369  (20041705)                556269.05
3777092.85      488.76705  (19112020)
        556441.69   3776927.49      718.79474  (18071905)                556461.69
3776927.49      785.72955  (20011220)
        556481.69   3776927.49      753.51453  (20011220)                556421.69
3776947.49      713.10849  (21012120)
        556441.69   3776947.49      773.56877  (21120418)                556461.69
3776947.49      786.31897  (21120418)
        556481.69   3776947.49      833.48040  (20011220)                556401.69
3776967.49      676.15233  (20022824)
        556421.69   3776967.49      705.34358  (21122822)                556441.69
3776967.49      752.95132  (19120424)
        556461.69   3776967.49      804.41603  (21012120)                556481.69
3776967.49      865.92162  (21120418)
        556401.69   3776987.49      710.37634  (19020201)                556421.69
3776987.49      759.35873  (19020201)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 118
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SPILL    ***
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INCLUDING SOURCE(S): VOL2 , VOL4 , VOL6 , VOL8 , VOL9 , VOL12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556441.69	3776987.49	758.87832	(19020201)	556461.69	3776987.49	792.06657	(21122822)
556481.69	3776987.49	842.52431	(19120424)	556421.69	3777007.49	721.27950	(19113019)
556441.69	3777007.49	793.92588	(19020201)	556461.69	3777007.49	857.02024	(19020201)
556481.69	3777007.49	859.92823	(19020201)	556441.69	3777027.49	720.67415	(23110417)
556461.69	3777027.49	804.30199	(19113019)	556481.69	3777027.49	883.53023	(19020201)
556251.24	3777154.95	491.70195	(21120218)	556261.28	3777141.20	499.25705	(19020922)
556264.98	3777168.16	490.82548	(21120218)	556279.25	3777151.77	519.49733	(21120218)
556202.60	3777113.45	428.60730	(19081106)	556220.05	3777109.75	443.74807	(19090702)
556187.53	3777090.19	414.35356	(23111620)	556164.27	3777121.38	404.93485	(19020922)
557510.26	3776508.23	121.54980	(19062905)	557530.26	3776508.23	124.07011	(19062905)
557550.26	3776508.23	121.90777	(19062905)	557570.26	3776508.23	115.97250	(19062905)
557590.26	3776508.23	107.70321	(19062905)	557610.26	3776508.23	97.95361	(19062905)
557630.26	3776508.23	90.70132	(20100702)	557650.26	3776508.23	84.57945	(20100702)
557670.26	3776508.23	88.39087	(21011318)	557690.26	3776508.23	92.22313	(21011318)
557510.26	3776528.23	126.25832	(19062905)	557530.26	3776528.23	123.74370	(19062905)
557550.26	3776528.23	117.70131	(19062905)	557570.26	3776528.23	108.08488	(19062905)
557590.26	3776528.23	97.70858	(19062905)	557610.26	3776528.23	90.63173	(20100702)
557630.26	3776528.23	85.41144	(21011318)	557650.26	3776528.23	91.87949	(21011318)

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        557670.26   3776528.23       95.18393  (21011318)                557690.26
3776528.23       96.67791  (21011318)
        557510.26   3776548.23      124.36858  (19062905)                557530.26
3776548.23      118.72513  (19062905)
        557550.26   3776548.23      107.93775  (19062905)                557570.26
3776548.23       96.36111  (19062905)
        557590.26   3776548.23       89.51995  (20100702)                557610.26
3776548.23       87.51018  (21011318)
        557630.26   3776548.23       93.05271  (21011318)                557650.26
3776548.23       96.98961  (21011318)
        557670.26   3776548.23       97.74497  (21011318)                557690.26
3776548.23       96.90502  (21011318)
        557510.26   3776568.23      117.46926  (19062905)                557530.26
3776568.23      108.42386  (19062905)
        557550.26   3776568.23       96.37072  (19062905)                557570.26
3776568.23       87.76497  (20100702)
        557590.26   3776568.23       89.02813  (21011318)                557610.26
3776568.23       93.36881  (21011318)
        557630.26   3776568.23       96.00360  (21011318)                557650.26
3776568.23       97.51059  (21011318)
        557670.26   3776568.23       95.58680  (21011318)                557690.26
3776568.23       91.89944  (21011318)
        557510.26   3776588.23      106.32176  (19062905)                557530.26
3776588.23       95.88935  (19062905)
        557550.26   3776588.23       87.57552  (20100702)                557570.26
3776588.23       89.84456  (21011318)
        557590.26   3776588.23       92.40682  (21011318)                557610.26
3776588.23       93.73337  (21011318)
        557630.26   3776588.23       94.61377  (21011318)                557650.26
3776588.23       93.33774  (21011318)
        557670.26   3776588.23       89.90005  (21011318)                557690.26
3776588.23       85.08260  (21011318)
        557510.26   3776608.23       92.46863  (19062905)                557530.26
3776608.23       87.88110  (21011318)
        557550.26   3776608.23       91.40406  (21011318)                557570.26
3776608.23       92.40145  (21011318)
        557590.26   3776608.23       91.17865  (21011318)                557610.26
3776608.23       89.87672  (21011318)
        557630.26   3776608.23       88.54814  (21011318)                557650.26
3776608.23       85.14877  (21011318)
        557670.26   3776608.23       80.03876  (21011318)                557690.26
3776608.23       74.90597  (18120608)
        557510.26   3776628.23       87.47923  (21011318)                557530.26
3776628.23       91.26530  (21011318)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37
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*** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: SPILL ***
INCLUDING SOURCE(S): VOL2 , VOL4 , VOL6 , VOL8 , VOL9 , VOL12 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557550.26	3776628.23	90.81813	(21011318)	557570.26	3776628.23	91.78028	(21011318)
557590.26	3776628.23	85.85581	(21011318)	557610.26	3776628.23	82.45623	(21011318)
557630.26	3776628.23	78.76342	(21011318)	557650.26	3776628.23	74.93252	(21011318)
557670.26	3776628.23	71.85181	(18120608)	557690.26	3776628.23	70.26797	(18120608)
557510.26	3776648.23	88.27060	(21011318)	557530.26	3776648.23	87.68432	(21011318)
557550.26	3776648.23	84.22821	(21011318)	557570.26	3776648.23	79.01330	(21011318)
557590.26	3776648.23	75.92880	(21011318)	557610.26	3776648.23	70.87333	(21011318)
557630.26	3776648.23	67.05851	(21011318)	557650.26	3776648.23	66.94269	(18120608)
557670.26	3776648.23	64.61557	(18120608)	557690.26	3776648.23	62.15061	(18120608)
557510.26	3776668.23	81.23428	(21011318)	557530.26	3776668.23	78.22264	(21011318)
557550.26	3776668.23	72.81422	(21011318)	557570.26	3776668.23	66.89975	(21011318)
557590.26	3776668.23	64.76086	(21011318)	557610.26	3776668.23	58.50171	(18120608)
557630.26	3776668.23	57.52537	(18120608)	557650.26	3776668.23	57.44840	(18120608)
557670.26	3776668.23	59.45257	(21103006)	557690.26	3776668.23	61.55991	(21103006)
557510.26	3776688.23	69.87820	(21011318)	557530.26	3776688.23	50.44382	(21011318)
557550.26	3776688.23	48.11830	(21011318)	557570.26			

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3776688.23       45.44243  (18120608)
        557590.26   3776688.23       44.40758  (18120608)                557610.26
3776688.23       46.15177  (21103006)
        557630.26   3776688.23       47.74464  (21103006)                557650.26
3776688.23       50.77246  (19020905)
        557670.26   3776688.23       53.41256  (19020905)                557690.26
3776688.23       55.57033  (19020905)
        556172.49   3776517.81      304.47960  (23092301)                556192.49
3776517.81      318.34086  (20111119)
        556212.49   3776517.81      311.14803  (20111119)                556232.49
3776517.81      315.67526  (18123020)
        556252.49   3776517.81      316.64626  (18123020)                556272.49
3776517.81      320.98883  (20111219)
        556292.49   3776517.81      327.52045  (20111219)                556312.49
3776517.81      321.97934  (21010719)
        556332.49   3776517.81      327.38144  (21010719)                556352.49
3776517.81      324.31925  (18102919)
        556372.49   3776517.81      296.01707  (20031603)                556392.49
3776517.81      317.89544  (19020324)
        556412.49   3776517.81      340.32227  (19020324)                556432.49
3776517.81      308.61632  (23111719)
        556452.49   3776517.81      306.35356  (23111719)                556472.49
3776517.81      326.00287  (23071306)
        556492.49   3776517.81      307.71964  (23071306)                556172.49
3776537.81      290.48586  (23092301)
        556192.49   3776537.81      314.77192  (23092301)                556212.49
3776537.81      327.18797  (20111119)
        556232.49   3776537.81      320.86807  (20111119)                556252.49
3776537.81      328.25444  (18123020)
        556272.49   3776537.81      323.78713  (18123020)                556292.49
3776537.81      336.85790  (20111219)
        556312.49   3776537.81      336.48883  (20111219)                556332.49
3776537.81      342.72511  (21010719)
        556352.49   3776537.81      344.11408  (18102919)                556372.49
3776537.81      323.64310  (18102919)
        556392.49   3776537.81      306.92777  (20031603)                556412.49
3776537.81      340.75032  (19020324)
        556432.49   3776537.81      345.45555  (19020324)                556452.49
3776537.81      322.71879  (23111719)
        556472.49   3776537.81      323.38747  (23071306)                556492.49
3776537.81      338.11082  (23071306)
        556332.49   3776557.81      350.93930  (20111219)                556352.49
3776557.81      356.16087  (21010719)
        556372.49   3776557.81      357.68580  (18102919)                556392.49
3776557.81      333.52761  (20012518)
        556412.49   3776557.81      325.11012  (19020324)                556432.49
3776557.81      366.27252  (19020324)
        556452.49   3776557.81      341.64452  (19020324)                556472.49
3776557.81      340.21483  (23111719)
 *** AERMOD - VERSION 24142  ***   ***
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: SPILL   ***
                                 INCLUDING SOURCE(S):   VOL2   , VOL4
, VOL6   , VOL8   , VOL9   ,
                VOL12   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
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        556392.49   3776617.81      403.32430  (21010719)              556412.49
3776617.81      410.35581  (18102919)
        556432.49   3776617.81      385.73941  (20012518)              556452.49
3776617.81      372.35874  (19020324)
        556472.49   3776617.81      412.65902  (19020324)              556492.49
3776617.81      396.64863  (19020324)
        556252.49   3776637.81      379.59609  (19011501)              556272.49
3776637.81      355.82226  (23092301)
        556292.49   3776637.81      389.17519  (23092301)              556312.49
3776637.81      405.24728  (20111119)
        556332.49   3776637.81      393.98821  (20111119)              556352.49
3776637.81      421.23727  (18123020)
        556372.49   3776637.81      419.08963  (20111219)              556392.49
3776637.81      426.07415  (20111219)
        556412.49   3776637.81      427.71645  (21010719)              556432.49
3776637.81      427.61799  (18102919)
        556452.49   3776637.81      398.33245  (20012518)              556472.49
3776637.81      411.97778  (19020324)
        556492.49   3776637.81      442.11133  (19020324)              556252.49
3776657.81      406.01898  (19011501)
        556272.49   3776657.81      402.81648  (19011501)              556292.49
3776657.81      372.60704  (23092301)
        556312.49   3776657.81      404.33019  (23092301)              556332.49
3776657.81      427.91456  (20111119)
        556352.49   3776657.81      418.69301  (18123020)              556372.49
3776657.81      446.17699  (18123020)
        556392.49   3776657.81      439.51004  (20111219)              556412.49
3776657.81      438.49710  (20111219)
        556432.49   3776657.81      445.44423  (21010719)              556452.49
3776657.81      440.80651  (18102919)
        556472.49   3776657.81      404.81777  (20012518)              556492.49
3776657.81      453.95328  (19020324)
        556252.49   3776677.81      390.43775  (18031106)              556272.49
3776677.81      420.61530  (19011501)
        556292.49   3776677.81      421.18234  (19011501)              556312.49
3776677.81      385.41774  (23092301)
        556332.49   3776677.81      428.53712  (23092301)              556352.49
3776677.81      451.20509  (20111119)
        556372.49   3776677.81      444.41536  (18123020)              556392.49
3776677.81      460.55051  (18123020)
        556412.49   3776677.81      468.13439  (20111219)              556432.49
3776677.81      449.29587  (20111219)
        556452.49   3776677.81      461.26007  (21010719)              556472.49
3776677.81      452.12901  (18102919)
        556492.49   3776677.81      426.78527  (19020324)              556252.49
3776697.81      388.47681  (19122922)
        556272.49   3776697.81      404.14181  (18031106)              556372.49
3776697.81      473.49638  (20111119)
        556392.49   3776697.81      463.17312  (18123020)              556412.49
3776697.81      479.52391  (18123020)
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        556432.49   3776697.81      487.30233  (20111219)                556452.49
3776697.81      467.15366  (21010719)
        556472.49   3776697.81      481.90967  (18102919)                556492.49
3776697.81      463.82947  (20012518)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 121
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  SPILL    ***
                                 INCLUDING SOURCE(S):     VOL2        , VOL4
, VOL6        , VOL8        , VOL9        ,
                VOL12       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556252.49   3776717.81      414.09691  (21102119)                556272.49
3776717.81      399.11416  (19122922)
        556372.49   3776717.81      474.14541  (23092301)                556392.49
3776717.81      489.82534  (20111119)
        556412.49   3776717.81      492.59677  (18123020)                556432.49
3776717.81      495.95609  (18123020)
        556452.49   3776717.81      508.31163  (20111219)                556472.49
3776717.81      511.02992  (21010719)
        556492.49   3776717.81      513.43736  (18102919)                556267.40
3776875.81      470.78871  (23090204)
        556239.03   3776853.02      457.37760  (19120424)                556178.76
3776751.21      405.06486  (20011220)
        556154.45   3776774.51      409.36161  (19022022)                556119.50
3776705.11      374.39793  (20011220)
        556146.51   3777267.93      366.29865  (18102619)                556151.00
3777234.88      374.29018  (19042703)
        556144.93   3777179.58      370.16827  (21062203)                556205.18
3777236.46      419.75551  (20020620)
        556218.00   3777200.04      431.79840  (21110618)                556773.51
3777349.00     1235.37317  (19082804)
 *** AERMOD - VERSION 24142  ***   ***
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: BREATHIN ***
                                 INCLUDING SOURCE(S):   STCK2   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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        556589.40   3777373.38      866.24025  (19042706)              556609.40
3777373.38      889.63470  (18042302)
        556629.40   3777373.38     1018.82171  (19011708)              556649.40
3777373.38     1071.54944  (19122606)
        556669.40   3777373.38     1105.63294  (19042503)              556689.40
3777373.38     1259.18659  (23123121)
        556709.40   3777373.38     1368.71928  (19050406)              556729.40
3777373.38     1423.83753  (19050406)
        556749.40   3777373.38     1574.82078  (20032007)              556769.40
3777373.38     1414.06479  (20032007)
        556789.40   3777373.38      997.20668  (19011519)              556809.40
3777373.38     1055.04169  (21120318)
        556829.40   3777373.38     1078.37852  (19011407)              556849.40
3777373.38     1119.85832  (18121017)
        556869.40   3777373.38     1179.23427  (21020220)              556889.40
3777373.38     1135.36341  (21122017)
        556909.40   3777373.38     1072.04368  (19011619)              556929.40
3777373.38     1003.38196  (23122321)
        556949.40   3777373.38      885.55440  (23120518)              556969.40
3777373.38      646.73188  (20090303)
        556989.40   3777373.38      531.82335  (21020119)              557009.40
3777373.38      483.77607  (21020119)
        557029.40   3777373.38      433.99421  (19120718)              557049.40
3777373.38      381.21785  (19120718)
        557069.40   3777373.38      342.67795  (21012207)              557089.40
3777373.38      343.95288  (18110803)
        557109.40   3777373.38      344.31298  (23092605)              557129.40
3777373.38      339.34603  (23122320)
        557149.40   3777373.38      324.09854  (23122320)              557169.40
3777373.38      301.82253  (23122320)
        557189.40   3777373.38      280.90303  (18120207)              557209.40
3777373.38      272.75075  (18120207)
        557229.40   3777373.38      259.64831  (18120207)              557249.40
3777373.38      243.52116  (18120207)
        557269.40   3777373.38      225.64652  (18120207)              557289.40
3777373.38      213.85837  (23122120)
        557309.40   3777373.38      205.28391  (23122120)              557329.40
3777373.38      194.67402  (23122120)
        557349.40   3777373.38      184.92047  (19011701)              557369.40
3777373.38      177.31572  (19011701)
        557389.40   3777373.38      169.27449  (19011701)              557409.40
3777373.38      160.98566  (19011701)
        557429.40   3777373.38      153.11405  (20013120)              557449.40
3777373.38      147.22992  (20013120)
        557469.40   3777373.38      140.83912  (20013120)              557489.40
3777373.38      133.63359  (20013120)
        556509.40   3777393.38      605.97174  (19042706)              556529.40
3777393.38      676.19258  (19042706)
        556549.40   3777393.38      724.82326  (19042706)              556569.40
3777393.38      736.20892  (19042706)
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        556589.40   3777393.38      808.67833  (19011708)                556609.40
3777393.38      888.12069  (19011708)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE 123
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                  INCLUDING SOURCE(S):     STCK2       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        556629.40   3777393.38      931.33076  (19122606)                556649.40
3777393.38      953.94249  (23123121)
        556669.40   3777393.38     1066.22770  (23123121)                556689.40
3777393.38     1142.61671  (20071506)
        556709.40   3777393.38     1230.21543  (19050406)                556729.40
3777393.38     1288.85679  (18021301)
        556749.40   3777393.38     1340.89810  (20032007)                556769.40
3777393.38      992.82910  (20032007)
        556789.40   3777393.38      878.31697  (19011519)                556809.40
3777393.38      903.13812  (23122418)
        556829.40   3777393.38      915.61974  (19120423)                556849.40
3777393.38      942.60391  (18121017)
        556869.40   3777393.38      993.99471  (21020220)                556889.40
3777393.38      982.48040  (21122017)
        556909.40   3777393.38      928.22880  (19011703)                556929.40
3777393.38      868.83870  (18020118)
        556949.40   3777393.38      818.45853  (23122321)                556969.40
3777393.38      679.57791  (23120518)
        556989.40   3777393.38      493.44149  (20090303)                557009.40
3777393.38      449.04828  (21020119)
        557029.40   3777393.38      408.85027  (21020119)                557049.40
3777393.38      370.51901  (19120718)
        557069.40   3777393.38      331.47095  (19120718)                557089.40
3777393.38      295.98157  (21012207)
        557109.40   3777393.38      284.87618  (18110803)                557129.40
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3777393.38      291.08017  (18110803)
        557149.40   3777393.38      290.34429  (23122320)              557169.40
3777393.38      284.77563  (23122320)
        557189.40   3777393.38      272.27580  (23122320)              557209.40
3777393.38      256.05537  (23122320)
        557229.40   3777393.38      238.74024  (18120207)              557249.40
3777393.38      232.43927  (18120207)
        557269.40   3777393.38      223.47811  (18120207)              557289.40
3777393.38      211.98089  (18120207)
        557309.40   3777393.38      198.28818  (18120207)              557329.40
3777393.38      185.79318  (21122222)
        557349.40   3777393.38      179.42701  (23122120)              557369.40
3777393.38      172.67576  (23122120)
        557389.40   3777393.38      165.16641  (23122120)              557409.40
3777393.38      156.80876  (19011701)
        557429.40   3777393.38      151.09634  (19011701)              557449.40
3777393.38      145.27212  (19011701)
        557469.40   3777393.38      138.62003  (19011701)              557489.40
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        556509.40   3777413.38      618.74069  (19042706)              556529.40
3777413.38      640.23245  (19042706)
        556549.40   3777413.38      657.12587  (18042302)              556569.40
3777413.38      736.96395  (19011708)
        556589.40   3777413.38      780.97683  (19011708)              556609.40
3777413.38      810.86290  (19122606)
        556629.40   3777413.38      846.06884  (23123121)              556649.40
3777413.38      930.22022  (23123121)
        556669.40   3777413.38      989.55591  (19011118)              556689.40
3777413.38     1066.16686  (19050406)
        556709.40   3777413.38     1087.62331  (21091102)              556729.40
3777413.38     1176.90092  (20032007)
        556749.40   3777413.38     1035.91027  (20032007)              556769.40
3777413.38      724.98891  (21020118)
        556789.40   3777413.38      762.47051  (19011519)              556809.40
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        556829.40   3777413.38      792.25518  (19120423)              556849.40
3777413.38      816.03116  (18121017)
        556869.40   3777413.38      867.84319  (19011324)              556889.40
3777413.38      849.93909  (21122017)
        556909.40   3777413.38      803.86467  (19011703)              556929.40
3777413.38      780.41869  (18020118)
        556949.40   3777413.38      736.10442  (23122321)              556969.40
3777413.38      670.21023  (23120518)
        556989.40   3777413.38      526.88548  (18031005)              557009.40
3777413.38      386.90492  (21020119)
        557029.40   3777413.38      383.30369  (21020119)              557049.40
3777413.38      350.63607  (21020119)
        557069.40   3777413.38      321.48338  (19120718)              557089.40
3777413.38      292.10510  (19120718)
        557109.40   3777413.38      258.30391  (21012207)              557129.40
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3777413.38      244.86606  (21012207)
        557149.40   3777413.38      248.13714  (18110803)                557169.40
3777413.38      250.26998  (18110803)
        557189.40   3777413.38      248.93998  (23122320)                557209.40
3777413.38      244.79802  (23122320)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557229.40   3777413.38      234.35334  (23122320)                557249.40
3777413.38      220.34465  (23122320)
        557269.40   3777413.38      205.17060  (18120207)                557289.40
3777413.38      201.41983  (18120207)
        557309.40   3777413.38      194.99279  (18120207)                557329.40
3777413.38      186.26288  (18120207)
        557349.40   3777413.38      177.35639  (18120207)                557369.40
3777413.38      166.30556  (18120207)
        557389.40   3777413.38      158.44466  (23122120)                557409.40
3777413.38      153.83078  (23122120)
        557429.40   3777413.38      147.48013  (23122120)                557449.40
3777413.38      141.54260  (23122120)
        557469.40   3777413.38      135.48214  (23122120)                557489.40
3777413.38      130.59046  (19011701)
        556509.40   3777433.38      562.11507  (21070703)                556529.40
3777433.38      600.69639  (19011708)
        556549.40   3777433.38      663.70816  (19011708)                556569.40
3777433.38      689.27462  (19120722)
        556589.40   3777433.38      711.35584  (19122606)                556609.40
3777433.38      751.06413  (23123121)
        556629.40   3777433.38      824.60733  (23123121)                556649.40
3777433.38      873.47167  (19011118)
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        556669.40   3777433.38      936.42665  (19050406)              556689.40
3777433.38      940.20626  (18042604)
        556709.40   3777433.38     1017.77577  (18021301)              556729.40
3777433.38     1012.58286  (20032007)
        556749.40   3777433.38      767.23150  (20032007)              556769.40
3777433.38      655.10688  (19011519)
        556789.40   3777433.38      665.46888  (21120318)              556809.40
3777433.38      694.77145  (23122418)
        556829.40   3777433.38      691.93563  (19120423)              556849.40
3777433.38      711.22873  (18121017)
        556869.40   3777433.38      758.12665  (19011324)              556889.40
3777433.38      740.23737  (21011317)
        556909.40   3777433.38      707.57541  (23010920)              556929.40
3777433.38      692.27377  (19011619)
        556949.40   3777433.38      658.27749  (21021919)              556969.40
3777433.38      626.12776  (23122321)
        556989.40   3777433.38      540.33708  (23120518)              557009.40
3777433.38      420.96116  (20090303)
        557029.40   3777433.38      339.78870  (21020119)              557049.40
3777433.38      334.57727  (21020119)
        557069.40   3777433.38      306.12713  (21020119)              557089.40
3777433.38      282.64707  (19120718)
        557109.40   3777433.38      260.28868  (19120718)              557129.40
3777433.38      229.45585  (19120718)
        557149.40   3777433.38      219.18246  (21012207)              557169.40
3777433.38      210.45800  (18110803)
        557189.40   3777433.38      217.32481  (18110803)              557209.40
3777433.38      218.42651  (23092605)
        557229.40   3777433.38      216.41238  (23122320)              557249.40
3777433.38      212.47431  (23122320)
        557269.40   3777433.38      203.85054  (23122320)              557289.40
3777433.38      191.97604  (23122320)
        557309.40   3777433.38      179.45687  (23122320)              557329.40
3777433.38      176.38742  (18120207)
        557349.40   3777433.38      170.82020  (18120207)              557369.40
3777433.38      164.90512  (18120207)
        557389.40   3777433.38      158.93871  (18120207)              557409.40
3777433.38      151.11255  (18120207)
        557429.40   3777433.38      141.60770  (21122222)              557449.40
3777433.38      136.81067  (23122120)
        557469.40   3777433.38      132.79616  (23122120)              557489.40
3777433.38      128.25219  (23122120)
        556509.40   3777453.38      558.70647  (19011708)              556529.40
3777453.38      599.57891  (19011708)
        556549.40   3777453.38      621.38772  (19122606)              556569.40
3777453.38      630.38524  (19042503)
        556589.40   3777453.38      671.56622  (23123121)              556609.40
3777453.38      730.14242  (23123121)
        556629.40   3777453.38      775.98044  (19011118)              556649.40
3777453.38      828.63137  (19050406)
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        556669.40   3777453.38      822.55444  (19050406)                556689.40
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3777453.38      810.49637  (20032007)
        556749.40   3777453.38      569.43469  (21091601)                556769.40
3777453.38      595.78943  (19011519)
        556789.40   3777453.38      603.86036  (21120318)                556809.40
3777453.38      611.50051  (23122418)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 125
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556829.40   3777453.38      614.44618  (21012523)                556849.40
3777453.38      634.58316  (18121017)
        556869.40   3777453.38      676.89147  (19011324)                556889.40
3777453.38      656.42690  (19121218)
        556909.40   3777453.38      641.18143  (21122017)                556929.40
3777453.38      619.55073  (19011703)
        556949.40   3777453.38      593.63957  (18020118)                556969.40
3777453.38      569.75816  (23122321)
        556989.40   3777453.38      528.11685  (23120518)                557009.40
3777453.38      436.80643  (23120518)
        557029.40   3777453.38      337.40714  (20090303)                557049.40
3777453.38      299.69100  (21020119)
        557069.40   3777453.38      293.50676  (21020119)                557089.40
3777453.38      269.65434  (21020119)
        557109.40   3777453.38      251.41851  (19120718)                557129.40
3777453.38      233.07042  (19120718)
        557149.40   3777453.38      209.26061  (19120718)                557169.40
3777453.38      195.45301  (21012207)
        557189.40   3777453.38      186.52704  (21012207)                557209.40
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3777453.38      189.17577  (18110803)
        557229.40   3777453.38      192.09604  (18110803)              557249.40
3777453.38      192.14062  (23092605)
        557269.40   3777453.38      191.06282  (23122320)              557289.40
3777453.38      186.38286  (23122320)
        557309.40   3777453.38      179.49294  (23122320)              557329.40
3777453.38      169.91399  (23122320)
        557349.40   3777453.38      159.05182  (23122320)              557369.40
3777453.38      155.65094  (18120207)
        557389.40   3777453.38      152.61938  (18120207)              557409.40
3777453.38      148.98746  (18120207)
        557429.40   3777453.38      143.24558  (18120207)              557449.40
3777453.38      136.71632  (18120207)
        557469.40   3777453.38      129.43323  (18120207)              557489.40
3777453.38      122.66063  (21122222)
        556509.40   3777473.38      541.47985  (19011708)              556529.40
3777473.38      557.57475  (19122606)
        556549.40   3777473.38      565.72762  (19042503)              556569.40
3777473.38      604.69026  (23123121)
        556589.40   3777473.38      652.49374  (23123121)              556609.40
3777473.38      685.94890  (19011118)
        556629.40   3777473.38      728.50705  (19050406)              556649.40
3777473.38      748.27021  (19050406)
        556669.40   3777473.38      767.11262  (21091102)              556689.40
3777473.38      817.21380  (20032007)
        556709.40   3777473.38      789.61748  (20032007)              556729.40
3777473.38      620.27169  (20032007)
        556749.40   3777473.38      500.46524  (19011519)              556769.40
3777473.38      534.74318  (19011519)
        556789.40   3777473.38      544.20499  (21120318)              556809.40
3777473.38      540.87651  (19011407)
        556829.40   3777473.38      549.69308  (21012523)              556849.40
3777473.38      569.74620  (18121017)
        556869.40   3777473.38      606.48093  (19011324)              556889.40
3777473.38      593.95688  (19121218)
        556909.40   3777473.38      585.64046  (21122017)              556929.40
3777473.38      559.02621  (19011703)
        556949.40   3777473.38      541.15996  (19011619)              556969.40
3777473.38      518.66872  (21021919)
        556989.40   3777473.38      499.19625  (23122321)              557009.40
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        557029.40   3777473.38      361.16180  (18031005)              557049.40
3777473.38      276.58000  (20090303)
        557069.40   3777473.38      268.63954  (21020119)              557089.40
3777473.38      260.79708  (21020119)
        557109.40   3777473.38      240.51379  (21020119)              557129.40
3777473.38      224.73195  (19120718)
        557149.40   3777473.38      211.11996  (19120718)              557169.40
3777473.38      190.36916  (19120718)
        557189.40   3777473.38      176.18138  (21012207)              557209.40
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        556749.40   3777493.38      470.56344  (19011519)              556769.40
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        556829.40   3777493.38      496.28822  (21012523)              556849.40
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3777493.38      502.20229  (21020922)
        556949.40   3777493.38      494.67384  (19011619)              556969.40
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        556989.40   3777493.38      461.43928  (23122321)              557009.40
3777493.38      435.88763  (23120518)
        557029.40   3777493.38      374.93100  (23120518)              557049.40
3777493.38      300.08605  (20090303)
        557069.40   3777493.38      236.38589  (21020119)              557089.40
3777493.38      241.39315  (21020119)
        557109.40   3777493.38      234.47391  (21020119)              557129.40
3777493.38      215.75867  (21020119)
        557149.40   3777493.38      203.35232  (19120718)              557169.40
3777493.38      191.49399  (19120718)
        557189.40   3777493.38      174.61647  (19120718)              557209.40
3777493.38      160.28354  (20092604)
        557229.40   3777493.38      155.35967  (21012207)              557249.40
3777493.38      148.38330  (21012207)
        557269.40   3777493.38      150.11958  (18110803)              557289.40
3777493.38      153.57151  (18110803)
        557309.40   3777493.38      154.02261  (23092605)              557329.40
3777493.38      153.65121  (23122320)
        557349.40   3777493.38      152.30083  (23122320)              557369.40
3777493.38      148.57206  (23122320)
        557389.40   3777493.38      143.34122  (23122320)              557409.40
3777493.38      136.64086  (23122320)
        557429.40   3777493.38      127.99312  (23122320)              557449.40
3777493.38      125.76593  (18120207)
        557469.40   3777493.38      124.54415  (18120207)              557489.40
3777493.38      121.72004  (18120207)
        556509.40   3777513.38      468.89672  (19042503)              556529.40
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        556549.40   3777513.38      530.83093  (23123121)              556569.40
3777513.38      559.13387  (19011118)
        556589.40   3777513.38      579.54886  (20071506)              556609.40
3777513.38      611.76014  (19050406)
        556629.40   3777513.38      610.66880  (18042604)              556649.40
3777513.38      640.36734  (18021301)
        556669.40   3777513.38      679.86945  (20032007)              556689.40
3777513.38      636.84302  (20032007)
        556709.40   3777513.38      506.42363  (20032007)              556729.40
3777513.38      413.44766  (21020118)
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        556749.40   3777513.38      437.14164  (19011519)               556769.40
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3777513.38      464.14484  (18121017)
        556869.40   3777513.38      491.40460  (19011324)               556889.40
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3777513.38      459.35131  (23010920)
        556949.40   3777513.38      457.35605  (19011703)               556969.40
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3777513.38      412.42141  (23122321)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 127
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3777513.38      215.68822  (21020119)
        557109.40   3777513.38      218.91424  (21020119)               557129.40
3777513.38      211.26088  (21020119)
        557149.40   3777513.38      195.47155  (21020119)               557169.40
3777513.38      184.84872  (19120718)
        557189.40   3777513.38      174.74714  (19120718)               557209.40
3777513.38      161.72856  (19120718)
        557229.40   3777513.38      146.92850  (18091703)               557249.40
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        557269.40   3777513.38      137.49136  (21012207)               557289.40
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        557389.40   3777513.38      137.59980  (23122320)              557409.40
3777513.38      134.47474  (23122320)
        557429.40   3777513.38      129.28639  (23122320)              557449.40
3777513.38      123.28627  (23122320)
        557469.40   3777513.38      116.68605  (23122320)              557489.40
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        556509.40   3777533.38      458.61858  (23123121)              556529.40
3777533.38      488.26782  (23123121)
        556549.40   3777533.38      504.43769  (19011118)              556569.40
3777533.38      524.05742  (20071506)
        556589.40   3777533.38      555.78377  (19050406)              556609.40
3777533.38      545.29222  (18042604)
        556629.40   3777533.38      573.70656  (21091102)              556649.40
3777533.38      607.40923  (18021301)
        556669.40   3777533.38      604.90288  (20032007)              556689.40
3777533.38      523.90118  (20032007)
        556709.40   3777533.38      394.70182  (21091601)              556729.40
3777533.38      381.27071  (19011519)
        556749.40   3777533.38      401.94967  (19011519)              556769.40
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        556829.40   3777533.38      411.88038  (21012523)              556849.40
3777533.38      423.38646  (18121017)
        556869.40   3777533.38      445.42618  (19011324)              556889.40
3777533.38      447.23180  (19121218)
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3777533.38      427.07048  (21122017)
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3777533.38      405.60307  (19011619)
        556989.40   3777533.38      388.44622  (18020118)              557009.40
3777533.38      382.44543  (23122321)
        557029.40   3777533.38      363.76082  (23120518)              557049.40
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3777533.38      199.83261  (21020119)
        557149.40   3777533.38      192.71013  (21020119)              557169.40
3777533.38      177.91180  (19021106)
        557189.40   3777533.38      168.63219  (19120718)              557209.40
3777533.38      161.33392  (19120718)
        557229.40   3777533.38      149.13839  (19120718)              557249.40
3777533.38      135.95094  (19120718)
        557269.40   3777533.38      130.85052  (21012207)              557289.40
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3777533.38      127.37952  (21012207)
        557309.40   3777533.38      121.89682  (21012207)                557329.40
3777533.38      123.01558  (18110803)
        557349.40   3777533.38      126.27759  (18110803)                557369.40
3777533.38      127.34950  (23092605)
        557389.40   3777533.38      126.48216  (23092605)                557409.40
3777533.38      126.76120  (23122320)
        557429.40   3777533.38      125.01678  (23122320)                557449.40
3777533.38      122.04736  (23122320)
        557469.40   3777533.38      117.47560  (23122320)                557489.40
3777533.38      112.17706  (23122320)
        556509.40   3777553.38      448.56999  (23123121)                556529.40
3777553.38      461.92458  (19011118)
        556549.40   3777553.38      478.57646  (20071506)                556569.40
3777553.38      508.11792  (19050406)
        556589.40   3777553.38      507.99336  (19050406)                556609.40
3777553.38      515.00242  (21091102)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556629.40   3777553.38      546.78044  (18021301)                556649.40
3777553.38      567.23346  (20032007)
        556669.40   3777553.38      520.38601  (20032007)                556689.40
3777553.38      417.30679  (20032007)
        556709.40   3777553.38      347.35668  (21020118)                556729.40
3777553.38      361.14083  (19011519)
        556749.40   3777553.38      364.19744  (19011519)                556769.40
3777553.38      374.87468  (21120318)
        556789.40   3777553.38      380.31315  (23122418)                556809.40
3777553.38      379.18625  (19011407)
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        556829.40   3777553.38      377.49974  (21012523)              556849.40
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        556869.40   3777553.38      407.11128  (19011324)              556889.40
3777553.38      410.95685  (21020220)
        556909.40   3777553.38      403.92359  (21011317)              556929.40
3777553.38      402.13973  (21122017)
        556949.40   3777553.38      379.10173  (21020922)              556969.40
3777553.38      374.10752  (19011619)
        556989.40   3777553.38      363.24255  (18020118)              557009.40
3777553.38      352.79741  (21021919)
        557029.40   3777553.38      343.57127  (23122321)              557049.40
3777553.38      319.83028  (23120518)
        557069.40   3777553.38      275.67495  (23120518)              557089.40
3777553.38      227.70359  (20090303)
        557109.40   3777553.38      179.70408  (20090303)              557129.40
3777553.38      182.38487  (21020119)
        557149.40   3777553.38      182.83965  (21020119)              557169.40
3777553.38      175.56981  (21020119)
        557189.40   3777553.38      162.98307  (19021106)              557209.40
3777553.38      155.05773  (19120718)
        557229.40   3777553.38      148.24474  (19120718)              557249.40
3777553.38      138.51180  (19120718)
        557269.40   3777553.38      126.92078  (19120718)              557289.40
3777553.38      120.69558  (20092604)
        557309.40   3777553.38      118.14261  (21012207)              557329.40
3777553.38      113.99373  (21012207)
        557349.40   3777553.38      110.18246  (18110803)              557369.40
3777553.38      114.12218  (18110803)
        557389.40   3777553.38      115.97198  (18110803)              557409.40
3777553.38      116.66545  (23092605)
        557429.40   3777553.38      116.25388  (23122320)              557449.40
3777553.38      116.02802  (23122320)
        557469.40   3777553.38      114.25855  (23122320)              557489.40
3777553.38      110.94038  (23122320)
        557438.91   3777336.71      153.15532  (18120107)              556615.91
3777136.99     1106.13352  (19122921)
        556586.37   3777056.16     1029.91884  (19022022)              556672.35
3776929.14      772.14674  (19020324)
        556692.35   3776929.14      734.79177  (20012218)              556712.35
3776929.14      763.43126  (20090403)
        556732.35   3776929.14      792.87448  (19112924)              556752.35
3776929.14      878.19915  (20050906)
        556772.35   3776929.14      867.35970  (20050906)              556792.35
3776929.14      876.01173  (19122218)
        556812.35   3776929.14      907.63263  (20092605)              556832.35
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3776949.14      817.96752  (19020324)
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3776949.14      823.21633  (21120902)
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        556732.35   3776949.14      866.11019  (19112924)               556752.35
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3776949.14      976.11983  (19122218)
        556812.35   3776949.14      998.65095  (20092605)               556832.35
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3776969.14      903.36228  (21010719)
        556692.35   3776969.14      930.35741  (19020324)               556712.35
3776969.14      913.91794  (20012218)
        556732.35   3776969.14      929.65335  (20090403)               556752.35
3776969.14      953.98138  (19112924)
        556772.35   3776969.14     1077.48322  (20050906)               556792.35
3776969.14     1074.82108  (19122218)
        556812.35   3776969.14     1094.46192  (19041403)               556832.35
3776969.14     1128.98595  (18122018)
        556852.35   3776969.14     1108.88405  (18120320)               556672.35
3776989.14      981.67341  (21010719)
        556692.35   3776989.14     1003.06252  (20012518)               556712.35
3776989.14     1050.03889  (19020324)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                  INCLUDING SOURCE(S):     STCK2       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556732.35   3776989.14     1018.13653  (21120902)               556752.35
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3776989.14     1188.67842  (19122404)
        556812.35   3776989.14     1214.76007  (19021218)               556832.35
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        556852.35   3776989.14     1237.33238  (18120320)               556672.35
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        556732.35   3777009.14     1169.77387  (20012218)              556752.35
3777009.14     1173.60250  (20090403)
        556772.35   3777009.14     1256.76273  (18121720)              556792.35
3777009.14     1346.41380  (20050906)
        556812.35   3777009.14     1355.52683  (19021218)              556832.35
3777009.14     1396.80456  (18122018)
        556852.35   3777009.14     1393.22364  (18120320)              556672.35
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        556732.35   3777029.14     1336.71891  (19020324)              556752.35
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        556772.35   3777029.14     1392.16783  (19112924)              556792.35
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        556812.35   3777029.14     1526.01476  (19122218)              556832.35
3777029.14     1572.15521  (18122018)
        556852.35   3777029.14     1583.73704  (18120320)              556672.35
3777049.14     1218.54067  (19011501)
        556692.35   3777049.14     1257.21882  (23092301)              556712.35
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        556772.35   3777049.14     1554.04523  (20090403)              556792.35
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        556812.35   3777049.14     1762.51114  (19122218)              556832.35
3777049.14     1781.73230  (18122018)
        556852.35   3777049.14     1823.38811  (18120320)              556927.54
3776959.53     1004.85657  (20031324)
        556947.54   3776959.53      982.55180  (19102619)              556967.54
3776959.53      930.27983  (21123005)
        556987.54   3776959.53      893.39507  (21012124)              557007.54
3776959.53      813.94854  (23111604)
        557027.54   3776959.53      625.24490  (23111604)              557047.54
3776959.53      410.48006  (23111604)
        557067.54   3776959.53      236.23633  (23111604)              557087.54
3776959.53      123.84075  (21012206)
        556927.54   3776979.53     1116.64888  (20012020)              556947.54
3776979.53     1069.28214  (20021203)
        556967.54   3776979.53     1025.20543  (21012821)              556987.54
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        557007.54   3776979.53      778.92370  (23111604)              557027.54
3776979.53      523.75626  (23111604)
        557047.54   3776979.53      301.73690  (23111604)              557067.54
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        556947.54   3776999.53     1175.54718  (21123005)              556967.54
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        557027.54   3776999.53      391.63837  (23111604)                557047.54
3776999.53      196.65140  (21012206)
        557067.54   3776999.53      146.21856  (21011318)                557087.54
3776999.53      145.66558  (21011318)
        556927.54   3777019.53     1390.35958  (19113024)                556947.54
3777019.53     1316.10877  (21012821)
        556967.54   3777019.53     1203.56748  (23111604)                556987.54
3777019.53      883.89371  (23111604)
        557007.54   3777019.53      518.02728  (23111604)                557027.54
3777019.53      254.40705  (21012206)
        557047.54   3777019.53      170.28352  (21011318)                557067.54
3777019.53      168.28007  (21011318)
        557087.54   3777019.53      166.13865  (19020905)                556927.54
3777039.53     1557.66055  (21123005)
        556947.54   3777039.53     1464.98491  (19111120)                556967.54
3777039.53     1166.12605  (23111604)
        556987.54   3777039.53      699.76845  (23111604)                557007.54
3777039.53      337.43766  (23111604)
        557027.54   3777039.53      201.56590  (21011318)                557047.54
3777039.53      197.13848  (21011318)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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                                 PAGE 130
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                 **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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3777039.53      214.74258  (19020905)
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3777194.93     2286.06457  (19120324)
        556939.02   3777194.93     1803.66472  (19120324)              556919.02
3777214.93     3220.79660  (21120718)
        556939.02   3777214.93     2374.39836  (21120718)              556919.02
3777234.93     2935.39746  (23122120)
        556939.02   3777234.93     2232.29188  (19011701)              556919.02
3777254.93     2274.81228  (23122320)
        556939.02   3777254.93     1924.91416  (23122320)              557023.57
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        557043.57   3777171.57      480.22810  (19120102)              557063.57
3777171.57      422.37192  (19120324)
        557083.57   3777171.57      393.12408  (19120324)              557023.57
3777191.57      792.01566  (19120324)
        557043.57   3777191.57      692.03685  (19120324)              557063.57
3777191.57      609.47983  (19120324)
        557083.57   3777191.57      544.50242  (19120324)              557023.57
3777211.57      939.59764  (19120324)
        557043.57   3777211.57      805.88832  (19120324)              557063.57
3777211.57      700.43745  (19120324)
        557083.57   3777211.57      608.19392  (19120324)              557023.57
3777231.57      923.40750  (20121124)
        557043.57   3777231.57      790.04780  (20121124)              557063.57
3777231.57      693.53682  (21120718)
        557083.57   3777231.57      597.71887  (21120718)              557023.57
3777251.57      902.39633  (20013120)
        557043.57   3777251.57      783.29902  (23122818)              557063.57
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        557083.57   3777251.57      584.46073  (23122818)              556249.05
3776972.85      351.70544  (19113019)
        556269.05   3776972.85      386.60642  (19113019)              556229.05
3776992.85      375.72171  (19122921)
        556249.05   3776992.85      382.05687  (19122921)              556269.05
3776992.85      382.39646  (23092902)
        556289.05   3776992.85      381.02499  (18030824)              556309.05
3776992.85      416.47291  (19113019)
        556329.05   3776992.85      457.07514  (19113019)              556209.05
3777012.85      360.87034  (19122921)
        556229.05   3777012.85      390.72773  (19122921)              556249.05
3777012.85      409.46330  (19122921)
        556269.05   3777012.85      422.71482  (19122921)              556289.05
3777012.85      430.96753  (19122921)
        556309.05   3777012.85      434.40791  (19122921)              556329.05
3777012.85      434.13561  (23092902)
        556209.05   3777032.85      370.59732  (21101420)              556229.05
3777032.85      384.80874  (21101420)
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        556289.05   3777032.85      444.71000  (19122921)                556309.05
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        556249.05   3777052.85      406.25752  (21101420)                556269.05
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        556289.05   3777052.85      442.36724  (21101420)                556309.05
3777052.85      455.37719  (21101420)
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3777072.85      414.12029  (18123019)
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3776927.49      543.66702  (20073101)
        556481.69   3776927.49      566.06425  (20073101)                556421.69
3776947.49      559.05038  (21120418)
        556441.69   3776947.49      553.41241  (18071905)                556461.69
3776947.49      589.06874  (20011220)
        556481.69   3776947.49      581.18579  (20011220)                556401.69
3776967.49      535.16716  (19120424)
        556421.69   3776967.49      560.54186  (21012120)                556441.69
3776967.49      595.31441  (21120418)
        556461.69   3776967.49      608.54675  (21120418)                556481.69
3776967.49      628.31141  (20011220)
        556401.69   3776987.49      541.95308  (19020201)                556421.69
3776987.49      553.29483  (21122822)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556441.69   3776987.49      597.38002  (19120424)                556461.69
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        556441.69   3777007.49      602.59579  (19020201)              556461.69
3777007.49      619.87395  (19120424)
        556481.69   3777007.49      675.01241  (19120424)              556441.69
3777027.49      627.51115  (19020201)
        556461.69   3777027.49      665.95725  (19020201)              556481.69
3777027.49      685.07850  (19020201)
        556251.24   3777154.95      344.87569  (19020922)              556261.28
3777141.20      346.22557  (19081106)
        556264.98   3777168.16      352.14274  (19020922)              556279.25
3777151.77      364.60473  (19020922)
        556202.60   3777113.45      301.73145  (23111620)              556220.05
3777109.75      310.57152  (19112020)
        556187.53   3777090.19      283.28235  (19112020)              556164.27
3777121.38      280.16732  (23111620)
        557510.26   3776508.23      109.03162  (23100204)              557530.26
3776508.23      104.37862  (19062905)
        557550.26   3776508.23      105.75467  (19062905)              557570.26
3776508.23      104.76147  (19062905)
        557590.26   3776508.23      101.93098  (19062905)              557610.26
3776508.23       97.63863  (19062905)
        557630.26   3776508.23       91.68497  (19062905)              557650.26
3776508.23       84.82341  (19062905)
        557670.26   3776508.23       77.05098  (19062905)              557690.26
3776508.23       77.89281  (21011318)
        557510.26   3776528.23      107.40287  (19062905)              557530.26
3776528.23      108.72235  (19062905)
        557550.26   3776528.23      107.69617  (19062905)              557570.26
3776528.23      104.17587  (19062905)
        557590.26   3776528.23       99.40282  (19062905)              557610.26
3776528.23       93.26174  (19062905)
        557630.26   3776528.23       86.15198  (19062905)              557650.26
3776528.23       78.39399  (19062905)
        557670.26   3776528.23       81.20449  (21011318)              557690.26
3776528.23       83.57908  (21011318)
        557510.26   3776548.23      111.37956  (19062905)              557530.26
3776548.23      110.49259  (19062905)
        557550.26   3776548.23      106.33800  (19062905)              557570.26
3776548.23      100.75239  (19062905)
        557590.26   3776548.23       94.47886  (19062905)              557610.26
3776548.23       87.02062  (19062905)
        557630.26   3776548.23       80.59198  (21011318)              557650.26
3776548.23       84.26982  (21011318)
        557670.26   3776548.23       86.31925  (21011318)              557690.26
3776548.23       87.26239  (21011318)
        557510.26   3776568.23      112.50648  (19062905)              557530.26
3776568.23      108.99155  (19062905)
        557550.26   3776568.23      102.99509  (19062905)              557570.26
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3776568.23       95.55786  (19062905)
        557590.26   3776568.23       87.88102  (19062905)                557610.26
3776568.23       83.37718  (21011318)
        557630.26   3776568.23       86.52894  (21011318)                557650.26
3776568.23       88.73066  (21011318)
        557670.26   3776568.23       89.10311  (21011318)                557690.26
3776568.23       88.21689  (21011318)
        557510.26   3776588.23      110.67711  (19062905)                557530.26
3776588.23      105.18573  (19062905)
        557550.26   3776588.23       97.52370  (19062905)                557570.26
3776588.23       88.73132  (19062905)
        557590.26   3776588.23       85.96443  (21011318)                557610.26
3776588.23       88.55164  (21011318)
        557630.26   3776588.23       90.33580  (21011318)                557650.26
3776588.23       90.72904  (21011318)
        557670.26   3776588.23       89.69655  (21011318)                557690.26
3776588.23       87.53819  (21011318)
        557510.26   3776608.23      106.20836  (19062905)                557530.26
3776608.23       99.04502  (19062905)
        557550.26   3776608.23       90.14872  (19062905)                557570.26
3776608.23       89.08808  (21011318)
        557590.26   3776608.23       90.67084  (21011318)                557610.26
3776608.23       91.43934  (21011318)
        557630.26   3776608.23       91.51057  (21011318)                557650.26
3776608.23       90.14882  (21011318)
        557670.26   3776608.23       87.48460  (21011318)                557690.26
3776608.23       83.86646  (21011318)
        557510.26   3776628.23       99.71078  (19062905)                557530.26
3776628.23       91.15275  (19062905)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE 132
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                  INCLUDING SOURCE(S):     STCK2       ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        556372.49   3776517.81      197.27100  (20031603)               556392.49
3776517.81      214.83168  (19020324)
        556412.49   3776517.81      211.27075  (19020324)               556432.49
3776517.81      206.02891  (23011008)
        556452.49   3776517.81      220.38392  (23071306)               556472.49
3776517.81      228.81868  (23071306)
        556492.49   3776517.81      213.68652  (23071306)               556172.49
3776537.81      212.39222  (23092301)
        556192.49   3776537.81      218.71305  (20111119)               556212.49
3776537.81      218.58037  (20111119)
        556232.49   3776537.81      216.31621  (18123020)               556252.49
3776537.81      216.74606  (18123020)
        556272.49   3776537.81      213.27206  (20111219)               556292.49
3776537.81      222.07183  (20111219)
        556312.49   3776537.81      218.39795  (21010719)               556332.49
3776537.81      224.94194  (21010719)
        556352.49   3776537.81      224.66890  (18102919)               556372.49
3776537.81      209.64362  (20012518)
        556392.49   3776537.81      206.80365  (19020324)               556412.49
3776537.81      221.54844  (19020324)
        556432.49   3776537.81      211.13355  (19020324)               556452.49
3776537.81      215.13006  (23071306)
        556472.49   3776537.81      236.68515  (23071306)               556492.49
3776537.81      234.48640  (23071306)
        556332.49   3776557.81      235.91923  (21010719)               556352.49
3776557.81      232.42538  (18102919)
        556372.49   3776557.81      229.61840  (18102919)               556392.49
3776557.81      216.75980  (20031603)
        556412.49   3776557.81      230.67977  (19020324)               556432.49
3776557.81      232.25839  (19020324)
        556452.49   3776557.81      219.81765  (23011008)               556472.49
3776557.81      236.73299  (23071306)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 133
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF TOG      IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556492.49	3776557.81	249.50565	(23071306)	556332.49	3776577.81	242.96956	(20111219)
556352.49	3776577.81	246.32809	(21010719)	556372.49	3776577.81	246.78900	(18102919)
556392.49	3776577.81	236.99594	(18102919)	556412.49	3776577.81	230.91498	(20031603)
556432.49	3776577.81	244.73136	(19020324)	556452.49	3776577.81	237.61190	(19020324)
556472.49	3776577.81	235.11192	(23011008)	556492.49	3776577.81	257.26668	(23071306)
556332.49	3776597.81	260.14426	(20111219)	556352.49	3776597.81	254.68382	(20111219)
556372.49	3776597.81	258.26192	(21010719)	556392.49	3776597.81	254.21016	(18102919)
556412.49	3776597.81	245.72368	(20012518)	556432.49	3776597.81	245.91891	(19020324)
556452.49	3776597.81	251.65530	(19020324)	556472.49	3776597.81	237.50634	(23011008)
556492.49	3776597.81	256.20451	(23071306)	556252.49	3776617.81	254.14005	(23092301)
556272.49	3776617.81	261.81335	(20111119)	556292.49	3776617.81	259.52004	(20111119)
556312.49	3776617.81	267.36098	(18123020)	556332.49	3776617.81	258.11653	(18123020)
556352.49	3776617.81	273.82955	(20111219)	556372.49	3776617.81	266.97596	(20111219)
556392.49	3776617.81	271.27063	(21010719)	556412.49	3776617.81	272.17311	(18102919)
556432.49	3776617.81	251.26170	(20012518)	556452.49	3776617.81	267.42219	(19020324)
556472.49	3776617.81	261.31557	(19020324)	556492.49	3776617.81	258.23062	(23011008)
556252.49	3776637.81	249.20545	(23092301)	556272.49	3776637.81	267.42124	(23092301)
556292.49	3776637.81	275.16359	(20111119)	556312.49	3776637.81	270.28279	(20111119)
556332.49	3776637.81	281.84296	(18123020)	556352.49	3776637.81	275.46693	(20111219)
556372.49	3776637.81	290.68567	(20111219)	556392.49	3776637.81	280.01465	(21010719)
556412.49	3776637.81	283.71104	(18102919)	556432.49	3776637.81	277.59296	(18102919)
556452.49	3776637.81	262.04805	(20031603)	556472.49	3776637.81	282.20523	(19020324)
556492.49	3776637.81	276.69904	(19020324)	556252.49			

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3776657.81      278.67241  (19011501)
        556272.49   3776657.81      263.64383  (23092301)                556292.49
3776657.81      282.49780  (23092301)
        556312.49   3776657.81      285.05433  (20111119)                556332.49
3776657.81      286.94617  (20111119)
        556352.49   3776657.81      298.87819  (18123020)                556372.49
3776657.81      297.79175  (20111219)
        556392.49   3776657.81      298.80418  (20111219)                556412.49
3776657.81      294.45270  (21010719)
        556432.49   3776657.81      295.44378  (18102919)                556452.49
3776657.81      280.83059  (20012518)
        556472.49   3776657.81      282.29268  (19020324)                556492.49
3776657.81      300.17339  (19020324)
        556252.49   3776677.81      293.81789  (19011501)                556272.49
3776677.81      290.29481  (19011501)
        556292.49   3776677.81      271.83113  (19011501)                556312.49
3776677.81      292.08639  (23092301)
        556332.49   3776677.81      305.71925  (20111119)                556352.49
3776677.81      303.74723  (20111119)
        556372.49   3776677.81      315.02298  (18123020)                556392.49
3776677.81      309.52459  (20111219)
        556412.49   3776677.81      315.21148  (20111219)                556432.49
3776677.81      308.60406  (21010719)
        556452.49   3776677.81      306.98085  (18102919)                556472.49
3776677.81      291.31948  (20012518)
        556492.49   3776677.81      309.97303  (19020324)                556252.49
3776697.81      286.07382  (19011501)
        556272.49   3776697.81      304.35063  (19011501)                556372.49
3776697.81      318.84609  (18123020)
        556392.49   3776697.81      322.34962  (18123020)                556412.49
3776697.81      326.28210  (20111219)
        556432.49   3776697.81      321.02660  (20111219)                556452.49
3776697.81      319.47409  (21010719)
        556472.49   3776697.81      319.43350  (18102919)                556492.49
3776697.81      305.15283  (20031603)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 134
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  BREATHIN ***
                                 INCLUDING SOURCE(S):     STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
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                                    ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556252.49   3776717.81      281.71168  (19122922)               556272.49
3776717.81      295.02463  (18031106)
        556372.49   3776717.81      340.98145  (20111119)               556392.49
3776717.81      327.21483  (18123020)
        556412.49   3776717.81      340.20657  (18123020)               556432.49
3776717.81      340.85244  (20111219)
        556452.49   3776717.81      328.71257  (20111219)               556472.49
3776717.81      343.95694  (21010719)
        556492.49   3776717.81      333.96936  (18102919)               556267.40
3776875.81      392.82051  (21120418)
        556239.03   3776853.02      374.73359  (21120418)               556178.76
3776751.21      313.96644  (20011220)
        556154.45   3776774.51      308.67815  (21120418)               556119.50
3776705.11      277.79800  (20011220)
        556146.51   3777267.93      266.69591  (20020620)               556151.00
3777234.88      269.96082  (21100603)
        556144.93   3777179.58      277.44212  (21120218)               556205.18
3777236.46      300.82487  (21100603)
        556218.00   3777200.04      303.95981  (21062203)               556773.51
3777349.00     1911.90356  (20032007)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE 135
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF TOG      IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556521.71	3777341.57	3022.81066	(23050706)	556539.90	3777344.94	3153.46650	(20121320)
556591.78	3777345.39	4033.33285	(19042706)	556630.62	3777349.66	4477.38102	(19011708)
556684.29	3777349.43	5302.58299	(23123121)	556905.58	3777351.19	5007.68559	(19011619)
556920.93	3777350.82	4731.81505	(21021919)	556942.87	3777350.09	4100.24243	(23120518)
556996.26	3777348.26	2412.31726	(21020119)	557096.81	3777357.77	1531.65606	(18110803)
557115.83	3777363.62	1466.91513	(18110803)	557129.36	3777361.43	1485.98145	(23122320)
557230.65	3777363.99	1159.17774	(18120207)	556466.22	3776816.07	1987.69001	(23092301)
556407.87	3776826.19	1815.14234	(19122922)	556381.07	3776807.14	1709.77578	(19122922)
556404.29	3776771.52	1629.43036	(23092301)	556465.21	3776739.51	1738.02169	(20111219)
556396.10	3776739.93	1638.08165	(20111119)	556323.99	3777265.43	1799.44118	(19042702)
556330.60	3777233.99	1839.40409	(20020620)	556321.08	3777200.43	1781.70384	(21110618)
556275.11	3777267.81	1590.56462	(19042702)	556278.28	3777233.46	1605.67630	(19042703)
556509.40	3777373.38	2709.11610	(19011504)	556529.40	3777373.38	3001.12367	(19042706)
556549.40	3777373.38	3275.98056	(19042706)	556569.40	3777373.38	3330.88748	(19042706)
556589.40	3777373.38	3530.87487	(23091905)	556609.40	3777373.38	3932.95928	(19011708)
556629.40	3777373.38	4131.30470	(19122606)	556649.40	3777373.38	4214.83144	(19042503)
556669.40	3777373.38	4697.20665	(23123121)	556689.40	3777373.38	5047.09049	(19011118)
556709.40	3777373.38	5408.89301	(19050406)	556729.40	3777373.38	5577.61939	(21091102)
556749.40	3777373.38	5852.38273	(20032007)	556769.40	3777373.38	4366.51043	(20032007)
556789.40	3777373.38	3985.41451	(19011519)	556809.40	3777373.38	4119.44149	(23122418)
556829.40	3777373.38	4194.57255	(19120423)	556849.40	3777373.38	4344.11474	(23102701)
556869.40	3777373.38	4573.11579	(19121218)	556889.40	3777373.38	4441.65335	(21122017)
556909.40	3777373.38	4205.46866	(19011619)	556929.40			

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3777373.38     3969.39817  (21021919)
        556949.40   3777373.38     3673.44788  (23120518)                556969.40
3777373.38     2776.27326  (18031005)
        556989.40   3777373.38     2100.40428  (21020119)                557009.40
3777373.38     2067.43537  (21020119)
        557029.40   3777373.38     1851.12973  (19021106)                557049.40
3777373.38     1687.58163  (19120718)
        557069.40   3777373.38     1447.93755  (18091703)                557089.40
3777373.38     1368.38526  (21012207)
        557109.40   3777373.38     1300.42672  (18110803)                557129.40
3777373.38     1348.56375  (18110803)
        557149.40   3777373.38     1345.57097  (23122320)                557169.40
3777373.38     1323.02162  (23122320)
        557189.40   3777373.38     1258.83225  (23122320)                557209.40
3777373.38     1160.23550  (23122320)
        557229.40   3777373.38     1108.43614  (18120207)                557249.40
3777373.38     1080.37726  (18120207)
        557269.40   3777373.38     1030.88925  (18120207)                557289.40
3777373.38      970.20916  (18120207)
        557309.40   3777373.38      905.28034  (21122222)                557329.40
3777373.38      860.33465  (23122120)
        557349.40   3777373.38      834.30343  (23122120)                557369.40
3777373.38      798.97098  (23122120)
        557389.40   3777373.38      758.89537  (23122120)                557409.40
3777373.38      729.44021  (19011701)
        557429.40   3777373.38      699.91210  (19011701)                557449.40
3777373.38      670.03714  (19011701)
        557469.40   3777373.38      636.41799  (19011701)                557489.40
3777373.38      609.01390  (20013120)
        556509.40   3777393.38     2801.28531  (19042706)                556529.40
3777393.38     2903.13325  (19042706)
        556549.40   3777393.38     2960.01808  (18042302)                556569.40
3777393.38     3215.87308  (19011708)
        556589.40   3777393.38     3478.02100  (19011708)                556609.40
3777393.38     3621.57616  (19122606)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 136
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
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STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556629.40	3777393.38	3706.56849	(23071405)	556649.40	3777393.38	4117.16117	(23123121)
556669.40	3777393.38	4369.92168	(19011118)	556689.40	3777393.38	4682.72146	(19050406)
556709.40	3777393.38	4766.09804	(21091102)	556729.40	3777393.38	5143.47668	(20032007)
556749.40	3777393.38	4584.84770	(20032007)	556769.40	3777393.38	3270.25855	(21020118)
556789.40	3777393.38	3452.77094	(19011519)	556809.40	3777393.38	3612.10286	(23122418)
556829.40	3777393.38	3623.59616	(19120423)	556849.40	3777393.38	3735.93577	(23102701)
556869.40	3777393.38	3911.70482	(21020220)	556889.40	3777393.38	3904.91201	(21122017)
556909.40	3777393.38	3698.96098	(19011703)	556929.40	3777393.38	3540.63878	(18020118)
556949.40	3777393.38	3363.58385	(23122321)	556969.40	3777393.38	2903.41985	(23120518)
556989.40	3777393.38	2116.68689	(20090303)	557009.40	3777393.38	1823.34466	(21020119)
557029.40	3777393.38	1772.64239	(21020119)	557049.40	3777393.38	1596.45940	(19021106)
557069.40	3777393.38	1470.44332	(19120718)	557089.40	3777393.38	1284.11965	(19120718)
557109.40	3777393.38	1200.68296	(21012207)	557129.40	3777393.38	1124.85230	(21012207)
557149.40	3777393.38	1138.05510	(18110803)	557169.40	3777393.38	1160.68478	(23092605)
557189.40	3777393.38	1155.69249	(23122320)	557209.40	3777393.38	1136.71850	(23122320)
557229.40	3777393.38	1082.75178	(23122320)	557249.40	3777393.38	999.08355	(23122320)
557269.40	3777393.38	952.85190	(18120207)	557289.40	3777393.38	936.69212	(18120207)
557309.40	3777393.38	900.97503	(18120207)	557329.40	3777393.38	859.91839	(18120207)
557349.40	3777393.38	806.74075	(18120207)	557369.40	3777393.38	759.65197	(21122222)

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        557389.40   3777393.38      736.75405  (23122120)                557409.40
3777393.38      712.38691  (23122120)
        557429.40   3777393.38      684.12255  (23122120)                557449.40
3777393.38      653.45653  (23122120)
        557469.40   3777393.38      628.15210  (19011701)                557489.40
3777393.38      603.69598  (19011701)
        556509.40   3777413.38     2554.44220  (21070703)                556529.40
3777413.38     2687.14329  (23091905)
        556549.40   3777413.38     2975.18084  (19011708)                556569.40
3777413.38     3121.75520  (19120722)
        556589.40   3777413.38     3208.34390  (19122606)                556609.40
3777413.38     3304.10017  (23071405)
        556629.40   3777413.38     3677.46899  (23123121)                556649.40
3777413.38     3870.67957  (19011118)
        556669.40   3777413.38     4134.44917  (19050406)                556689.40
3777413.38     4131.92795  (18042604)
        556709.40   3777413.38     4451.34924  (18021301)                556729.40
3777413.38     4421.57909  (20032007)
        556749.40   3777413.38     3289.86102  (20032007)                556769.40
3777413.38     2980.51385  (19011519)
        556789.40   3777413.38     3036.35852  (21120318)                556809.40
3777413.38     3177.15033  (23122418)
        556829.40   3777413.38     3166.99384  (21012523)                556849.40
3777413.38     3287.44227  (23102701)
        556869.40   3777413.38     3470.05722  (21020220)                556889.40
3777413.38     3419.15416  (21122017)
        556909.40   3777413.38     3228.40567  (21020922)                556929.40
3777413.38     3187.79876  (19011619)
        556949.40   3777413.38     3007.71717  (21021919)                556969.40
3777413.38     2833.43825  (23120518)
        556989.40   3777413.38     2280.55005  (18031005)                557009.40
3777413.38     1628.68729  (20090303)
        557029.40   3777413.38     1591.39391  (21020119)                557049.40
3777413.38     1537.43228  (21020119)
        557069.40   3777413.38     1396.99027  (19021106)                557089.40
3777413.38     1298.23946  (19120718)
        557109.40   3777413.38     1156.41288  (19120718)                557129.40
3777413.38     1051.98678  (20092604)
        557149.40   3777413.38     1014.95480  (21012207)                557169.40
3777413.38      957.45854  (18110803)
        557189.40   3777413.38     1001.96899  (18110803)                557209.40
3777413.38     1016.19271  (23092605)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE 137
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557229.40   3777413.38     1011.60252  (23122320)                557249.40
3777413.38      987.80788  (23122320)
        557269.40   3777413.38      940.21419  (23122320)                557289.40
3777413.38      873.78370  (23122320)
        557309.40   3777413.38      830.44102  (18120207)                557329.40
3777413.38      820.28411  (18120207)
        557349.40   3777413.38      801.94759  (18120207)                557369.40
3777413.38      767.21064  (18120207)
        557389.40   3777413.38      728.86751  (18120207)                557409.40
3777413.38      687.41737  (21122222)
        557429.40   3777413.38      649.84360  (23122120)                557449.40
3777413.38      636.02698  (23122120)
        557469.40   3777413.38      618.49813  (23122120)                557489.40
3777413.38      593.68069  (23122120)
        556509.40   3777433.38     2474.12451  (19011708)                556529.40
3777433.38     2709.30901  (19011708)
        556549.40   3777433.38     2802.79844  (19122606)                556569.40
3777433.38     2848.10975  (19042503)
        556589.40   3777433.38     2967.84522  (21091605)                556609.40
3777433.38     3286.13468  (23123121)
        556629.40   3777433.38     3468.03238  (19011118)                556649.40
3777433.38     3675.79048  (19050406)
        556669.40   3777433.38     3648.03528  (19050406)                556689.40
3777433.38     3886.46648  (21091102)
        556709.40   3777433.38     4102.37367  (20032007)                556729.40
3777433.38     3523.43117  (20032007)
        556749.40   3777433.38     2580.86013  (21020118)                556769.40
3777433.38     2731.99383  (19011519)
        556789.40   3777433.38     2774.25892  (21120318)                556809.40
3777433.38     2780.58586  (23122418)
        556829.40   3777433.38     2817.66748  (21012523)                556849.40
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3777433.38     2906.69707  (23102701)
        556869.40   3777433.38     3075.39932  (19011324)                556889.40
3777433.38     3020.01867  (21011317)
        556909.40   3777433.38     2896.74297  (23010920)                556929.40
3777433.38     2844.25149  (19011703)
        556949.40   3777433.38     2724.46981  (18020118)                556969.40
3777433.38     2630.77967  (23122321)
        556989.40   3777433.38     2334.90764  (23120518)                557009.40
3777433.38     1824.72270  (18031005)
        557029.40   3777433.38     1349.26113  (21012919)                557049.40
3777433.38     1413.48885  (21020119)
        557069.40   3777433.38     1353.89416  (21020119)                557089.40
3777433.38     1237.17593  (19021106)
        557109.40   3777433.38     1158.75063  (19120718)                557129.40
3777433.38     1041.85528  (19120718)
        557149.40   3777433.38      947.32430  (20092604)                557169.40
3777433.38      910.34874  (21012207)
        557189.40   3777433.38      858.58425  (21012207)                557209.40
3777433.38      864.27043  (18110803)
        557229.40   3777433.38      888.95009  (18110803)                557249.40
3777433.38      894.63737  (23092605)
        557269.40   3777433.38      891.73640  (23122320)                557289.40
3777433.38      867.28427  (23122320)
        557309.40   3777433.38      829.19636  (23122320)                557329.40
3777433.38      771.67682  (23122320)
        557349.40   3777433.38      726.82211  (18120207)                557369.40
3777433.38      724.11781  (18120207)
        557389.40   3777433.38      715.72086  (18120207)                557409.40
3777433.38      693.88907  (18120207)
        557429.40   3777433.38      658.28175  (18120207)                557449.40
3777433.38      622.47640  (18120207)
        557469.40   3777433.38      591.19689  (21122222)                557489.40
3777433.38      569.90828  (23122120)
        556509.40   3777453.38     2461.30209  (19011708)                556529.40
3777453.38     2548.53337  (19122606)
        556549.40   3777453.38     2591.60434  (19042503)                556569.40
3777453.38     2681.28533  (21091605)
        556589.40   3777453.38     2955.10482  (23123121)                556609.40
3777453.38     3096.66837  (19011118)
        556629.40   3777453.38     3271.42344  (19050406)                556649.40
3777453.38     3360.66345  (19050406)
        556669.40   3777453.38     3446.91503  (21091102)                556689.40
3777453.38     3666.15250  (20032007)
        556709.40   3777453.38     3485.94866  (20032007)                556729.40
3777453.38     2625.03286  (20032007)
        556749.40   3777453.38     2283.62766  (19011519)                556769.40
3777453.38     2448.92747  (19011519)
        556789.40   3777453.38     2507.45613  (21120318)                556809.40
3777453.38     2502.27001  (19011407)
 *** AERMOD - VERSION 24142  ***   ***
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2
, VOL3   , VOL4   , VOL5   ,
                  VOL6   , VOL7   , VOL8   , VOL9   , VOL10
, VOL11   , VOL12   , STCK1   ,
                  STCK2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        556829.40   3777453.38   2538.51886 (21012523)   556849.40
3777453.38   2621.62014 (23102701)
        556869.40   3777453.38   2780.74161 (19011324)   556889.40
3777453.38   2705.76803 (19121218)
        556909.40   3777453.38   2656.51127 (21122017)   556929.40
3777453.38   2573.20925 (19011703)
        556949.40   3777453.38   2483.93698 (18020118)   556969.40
3777453.38   2378.75837 (21021919)
        556989.40   3777453.38   2264.58763 (23120518)   557009.40
3777453.38   1900.42911 (23120518)
        557029.40   3777453.38   1449.36765 (20090303)   557049.40
3777453.38   1207.37662 (21020119)
        557069.40   3777453.38   1257.94973 (21020119)   557089.40
3777453.38   1200.90147 (21020119)
        557109.40   3777453.38   1107.40652 (19021106)   557129.40
3777453.38   1039.29222 (19120718)
        557149.40   3777453.38   950.49850 (19120718)   557169.40
3777453.38   854.71359 (18091703)
        557189.40   3777453.38   821.54601 (21012207)   557209.40
3777453.38   789.55348 (21012207)
        557229.40   3777453.38   742.02662 (20070505)   557249.40
3777453.38   781.05153 (18110803)
        557269.40   3777453.38   797.23470 (23092605)   557289.40
3777453.38   794.68291 (23122320)

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        557309.40   3777453.38      793.58858  (23122320)              557329.40
3777453.38      772.24614  (23122320)
        557349.40   3777453.38      736.87622  (23122320)              557369.40
3777453.38      686.31423  (23122320)
        557389.40   3777453.38      648.61779  (18120207)              557409.40
3777453.38      652.31933  (18120207)
        557429.40   3777453.38      642.70974  (18120207)              557449.40
3777453.38      625.32060  (18120207)
        557469.40   3777453.38      600.55745  (18120207)              557489.40
3777453.38      569.92558  (18120207)
        556509.40   3777473.38     2319.39227  (19122606)              556529.40
3777473.38     2343.47802  (19042503)
        556549.40   3777473.38     2432.03877  (21091605)              556569.40
3777473.38     2673.97525  (23123121)
        556589.40   3777473.38     2783.58942  (19011118)              556609.40
3777473.38     2887.50346  (19050406)
        556629.40   3777473.38     3055.93937  (19050406)              556649.40
3777473.38     3065.00600  (19042604)
        556669.40   3777473.38     3252.91055  (18021301)              556689.40
3777473.38     3310.61166  (20032007)
        556709.40   3777473.38     2782.81175  (20032007)              556729.40
3777473.38     2111.84121  (21020118)
        556749.40   3777473.38     2164.37973  (19011519)              556769.40
3777473.38     2164.03530  (19011519)
        556789.40   3777473.38     2279.21817  (23122418)              556809.40
3777473.38     2281.46329  (19011407)
        556829.40   3777473.38     2287.87051  (21012523)              556849.40
3777473.38     2376.22158  (23102701)
        556869.40   3777473.38     2518.51276  (19011324)              556889.40
3777473.38     2475.45982  (19121218)
        556909.40   3777473.38     2449.21524  (21122017)              556929.40
3777473.38     2315.98146  (19011703)
        556949.40   3777473.38     2284.63960  (19011619)              556969.40
3777473.38     2164.76221  (19120822)
        556989.40   3777473.38     2131.24445  (23122321)              557009.40
3777473.38     1948.21807  (23120518)
        557029.40   3777473.38     1579.50028  (18031005)              557049.40
3777473.38     1171.63909  (20090303)
        557069.40   3777473.38     1103.29847  (21020119)              557089.40
3777473.38     1130.85677  (21020119)
        557109.40   3777473.38     1076.98118  (21020119)              557129.40
3777473.38      995.52893  (19021106)
        557149.40   3777473.38      942.64755  (19120718)              557169.40
3777473.38      865.31933  (19120718)
        557189.40   3777473.38      779.32513  (18091703)              557209.40
3777473.38      744.27561  (21012207)
        557229.40   3777473.38      723.18784  (21012207)              557249.40
3777473.38      684.14509  (21012207)
        557269.40   3777473.38      681.41997  (18110803)              557289.40
3777473.38      707.16042  (18110803)
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        557309.40   3777473.38      717.89068  (23092605)                557329.40
3777473.38      717.68471  (23122320)
        557349.40   3777473.38      711.99847  (23122320)                557369.40
3777473.38      692.66661  (23122320)
        557389.40   3777473.38      660.09548  (23122320)                557409.40
3777473.38      621.51426  (23122320)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE 139
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557429.40   3777473.38      583.00763  (18120207)                557449.40
3777473.38      587.48100  (18120207)
        557469.40   3777473.38      580.69614  (18120207)                557489.40
3777473.38      566.60458  (18120207)
        556509.40   3777493.38     2149.40326  (19042503)                556529.40
3777493.38     2241.86987  (23123121)
        556549.40   3777493.38     2437.87587  (23123121)                556569.40
3777493.38     2500.15109  (19011118)
        556589.40   3777493.38     2597.82056  (20071506)                556609.40
3777493.38     2775.00750  (19050406)
        556629.40   3777493.38     2741.48460  (18042604)                556649.40
3777493.38     2866.18483  (21091102)
        556669.40   3777493.38     3054.38368  (20032007)                556689.40
3777493.38     2812.72727  (20032007)
        556709.40   3777493.38     2119.94115  (20032007)                556729.40
3777493.38     1878.28901  (21020118)
        556749.40   3777493.38     2014.11693  (19011519)                556769.40
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3777493.38     2011.70203  (21120318)
        556789.40   3777493.38     2087.85185  (23122418)              556809.40
3777493.38     2078.08717  (19011407)
        556829.40   3777493.38     2078.31819  (21012523)              556849.40
3777493.38     2155.95208  (23102701)
        556869.40   3777493.38     2281.98086  (19011324)              556889.40
3777493.38     2268.43210  (19121218)
        556909.40   3777493.38     2245.10825  (21122017)              556929.40
3777493.38     2119.47712  (23010920)
        556949.40   3777493.38     2094.94778  (19011703)              556969.40
3777493.38     2029.73394  (18020118)
        556989.40   3777493.38     1954.71972  (21021919)              557009.40
3777493.38     1887.83672  (23120518)
        557029.40   3777493.38     1642.88469  (23120518)              557049.40
3777493.38     1302.99179  (18031005)
        557069.40   3777493.38     1014.52318  (21012919)              557089.40
3777493.38     1007.75515  (21020119)
        557109.40   3777493.38     1026.39651  (21020119)              557129.40
3777493.38      970.49065  (21020119)
        557149.40   3777493.38      905.24429  (19021106)              557169.40
3777493.38      856.18793  (19120718)
        557189.40   3777493.38      794.18415  (19120718)              557209.40
3777493.38      713.29770  (18091703)
        557229.40   3777493.38      681.71444  (20092604)              557249.40
3777493.38      664.32604  (21012207)
        557269.40   3777493.38      636.42950  (21012207)              557289.40
3777493.38      600.16180  (20070505)
        557309.40   3777493.38      625.78005  (18110803)              557329.40
3777493.38      644.30724  (18110803)
        557349.40   3777493.38      649.93763  (23092605)              557369.40
3777493.38      649.03269  (23122320)
        557389.40   3777493.38      643.78934  (23122320)              557409.40
3777493.38      626.53561  (23122320)
        557429.40   3777493.38      595.28759  (23122320)              557449.40
3777493.38      562.14434  (23122320)
        557469.40   3777493.38      530.53961  (20031506)              557489.40
3777493.38      530.42990  (18120207)
        556509.40   3777513.38     2061.13264  (23123121)              556529.40
3777513.38     2228.06212  (23123121)
        556549.40   3777513.38     2279.24978  (19011118)              556569.40
3777513.38     2398.86618  (20071506)
        556589.40   3777513.38     2550.34452  (19050406)              556609.40
3777513.38     2477.60970  (18042604)
        556629.40   3777513.38     2626.05613  (21091102)              556649.40
3777513.38     2765.79757  (18021301)
        556669.40   3777513.38     2747.01683  (20032007)              556689.40
3777513.38     2264.13955  (20032007)
        556709.40   3777513.38     1757.02005  (21020118)              556729.40
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        556829.40   3777513.38     1895.94234  (23122308)                556849.40
3777513.38     1967.86785  (23102701)
        556869.40   3777513.38     2075.70444  (19011324)                556889.40
3777513.38     2079.71722  (19121218)
        556909.40   3777513.38     2039.63931  (21122017)                556929.40
3777513.38     1948.62420  (23010920)
        556949.40   3777513.38     1947.64020  (19011703)                556969.40
3777513.38     1867.43068  (19011619)
        556989.40   3777513.38     1800.39656  (21021919)                557009.40
3777513.38     1781.58040  (23122321)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 140
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        557029.40   3777513.38     1652.82962  (23120518)                557049.40
3777513.38     1388.33949  (18031005)
        557069.40   3777513.38     1080.42053  (20090303)                557089.40
3777513.38      897.29175  (21112818)
        557109.40   3777513.38      926.55514  (21020119)                557129.40
3777513.38      932.27746  (21020119)
        557149.40   3777513.38      882.37342  (21020119)                557169.40
3777513.38      826.57765  (19021106)
        557189.40   3777513.38      782.25676  (19120718)                557209.40
3777513.38      735.84404  (19120718)
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        557269.40   3777513.38      611.59593  (21012207)              557289.40
3777513.38      592.05399  (21012207)
        557309.40   3777513.38      560.21346  (21012207)              557329.40
3777513.38      554.66026  (18110803)
        557349.40   3777513.38      578.06571  (18110803)              557369.40
3777513.38      589.76817  (23092605)
        557389.40   3777513.38      591.78976  (23092605)              557409.40
3777513.38      592.82157  (23122320)
        557429.40   3777513.38      584.12742  (23122320)              557449.40
3777513.38      567.22440  (23122320)
        557469.40   3777513.38      543.38832  (23122320)              557489.40
3777513.38      513.71488  (23122320)
        556509.40   3777533.38     2050.88120  (23123121)              556529.40
3777533.38     2097.74576  (19011118)
        556549.40   3777533.38     2190.83749  (19011118)              556569.40
3777533.38     2315.38246  (19050406)
        556589.40   3777533.38     2290.30729  (19050406)              556609.40
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        556629.40   3777533.38     2482.71050  (18021301)              556649.40
3777533.38     2573.29734  (20032007)
        556669.40   3777533.38     2303.45328  (20032007)              556689.40
3777533.38     1747.70959  (19082804)
        556709.40   3777533.38     1594.12981  (21020118)              556729.40
3777533.38     1672.87929  (19011519)
        556749.40   3777533.38     1676.02279  (19011519)              556769.40
3777533.38     1745.10885  (21120318)
        556789.40   3777533.38     1752.11182  (23122418)              556809.40
3777533.38     1753.81298  (19120423)
        556829.40   3777533.38     1748.78076  (23122308)              556849.40
3777533.38     1806.93684  (23102701)
        556869.40   3777533.38     1893.75371  (19011324)              556889.40
3777533.38     1904.58704  (19121218)
        556909.40   3777533.38     1877.62196  (21011317)              556929.40
3777533.38     1820.97509  (21122017)
        556949.40   3777533.38     1776.71496  (19011703)              556969.40
3777533.38     1743.90290  (19011619)
        556989.40   3777533.38     1685.60036  (18020118)              557009.40
3777533.38     1637.46162  (21021919)
        557029.40   3777533.38     1588.67282  (23120518)              557049.40
3777533.38     1425.09455  (23120518)
        557069.40   3777533.38     1173.72602  (18031005)              557089.40
3777533.38      897.48831  (20090303)
        557109.40   3777533.38      814.13940  (21112818)              557129.40
3777533.38      855.70921  (21020119)
        557149.40   3777533.38      855.99320  (21020119)              557169.40
3777533.38      805.30510  (21020119)
        557189.40   3777533.38      757.20683  (19021106)              557209.40
3777533.38      722.82290  (19120718)
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        557229.40   3777533.38      678.99644  (19120718)                557249.40
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        557309.40   3777533.38      551.82368  (21012207)                557329.40
3777533.38      528.04130  (21012207)
        557349.40   3777533.38      500.27269  (23120121)                557369.40
3777533.38      516.78789  (18110803)
        557389.40   3777533.38      532.75220  (18110803)                557409.40
3777533.38      542.47535  (23092605)
        557429.40   3777533.38      541.03914  (23092605)                557449.40
3777533.38      542.22210  (23122320)
        557469.40   3777533.38      533.40708  (23122320)                557489.40
3777533.38      517.54887  (23122320)
        556509.40   3777553.38     1927.28718  (19011118)                556529.40
3777553.38     2030.26925  (19011118)
        556549.40   3777553.38     2116.29030  (19050406)                556569.40
3777553.38     2147.79142  (19050406)
        556589.40   3777553.38     2158.37286  (18042604)                556609.40
3777553.38     2236.96458  (21091102)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                       ***        13:24:37

                                  PAGE 141
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                 VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                 STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556629.40   3777553.38     2359.13560  (20032007)                556649.40
3777553.38     2287.49171  (20032007)
        556669.40   3777553.38     1862.62580  (20032007)                556689.40
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3777553.38     1572.12043  (19011519)
        556749.40   3777553.38     1520.35565  (21120318)                556769.40
3777553.38     1602.61797  (21120318)
        556789.40   3777553.38     1595.51363  (23122418)                556809.40
3777553.38     1625.81222  (19120423)
        556829.40   3777553.38     1614.18484  (23122308)                556849.40
3777553.38     1669.90056  (23102701)
        556869.40   3777553.38     1739.85783  (19011324)                556889.40
3777553.38     1753.12139  (21020220)
        556909.40   3777553.38     1726.42678  (21011317)                556929.40
3777553.38     1727.01766  (21122017)
        556949.40   3777553.38     1630.15510  (21020922)                556969.40
3777553.38     1618.01006  (19011703)
        556989.40   3777553.38     1571.55833  (18020118)                557009.40
3777553.38     1522.20888  (21021919)
        557029.40   3777553.38     1498.76977  (23122321)                557049.40
3777553.38     1414.39422  (23120518)
        557069.40   3777553.38     1218.81706  (18031005)                557089.40
3777553.38      986.90482  (20090303)
        557109.40   3777553.38      796.99599  (21012919)                557129.40
3777553.38      751.53645  (21020119)
        557149.40   3777553.38      790.86511  (21020119)                557169.40
3777553.38      784.34583  (21020119)
        557189.40   3777553.38      737.98740  (21020119)                557209.40
3777553.38      698.82722  (19021106)
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        557309.40   3777553.38      522.96320  (20092604)                557329.40
3777553.38      513.33635  (21012207)
        557349.40   3777553.38      497.00648  (21012207)                557369.40
3777553.38      470.84799  (21012207)
        557389.40   3777553.38      463.71661  (20070505)                557409.40
3777553.38      481.97036  (18110803)
        557429.40   3777553.38      494.74315  (23092605)                557449.40
3777553.38      500.24797  (23092605)
        557469.40   3777553.38      498.42841  (23122320)                557489.40
3777553.38      496.17747  (23122320)
        557438.91   3777336.71      686.84972  (20013120)                556615.91
3777136.99     5062.24398  (18123019)
        556586.37   3777056.16     4049.05539  (23090204)                556672.35
3776929.14     3619.36668  (19020324)
        556692.35   3776929.14     3509.82371  (20012218)                556712.35
3776929.14     3561.18614  (20090403)
        556732.35   3776929.14     3715.05738  (19112924)                556752.35
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        556772.35   3776929.14     3999.06920  (20050906)                556792.35
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3776969.14     4937.97297  (19122218)
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3776969.14     5110.18999  (18122018)
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3776989.14     4466.62164  (18123020)
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3776989.14     4921.97081  (19020324)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 142
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                            *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF TOG      IN MICROGRAMS/M**3
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        556812.35   3776989.14     5496.02683  (18030104)                556832.35
3776989.14     5650.63096  (18122018)
        556852.35   3776989.14     5462.16401  (18120320)                556672.35
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        556732.35   3777009.14     5560.70915  (19020324)                556752.35
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        556772.35   3777009.14     5576.75325  (18121720)                556792.35
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        556852.35   3777009.14     6102.24666  (18120320)                556672.35
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        556732.35   3777029.14     6064.21221  (19020324)                556752.35
3777029.14     6037.36398  (19020324)
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3777029.14     7031.94471  (20050906)
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3777049.14     5344.83658  (19011501)
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        556812.35   3777049.14     7879.70664  (19122218)                556832.35
3777049.14     7840.02389  (18122018)
        556852.35   3777049.14     7808.96055  (18120320)                556927.54
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        556947.54   3776959.53     4368.38248  (20021203)                556967.54
3776959.53     4195.77886  (21012821)
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3776959.53     3179.94379  (23111604)
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3776959.53     1146.04835  (23111604)
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3776959.53      551.79580  (21020820)
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        557007.54   3776979.53     2692.91625  (23111604)                557027.54
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3776979.53      624.67458  (21020820)
        557087.54   3776979.53      614.90800  (21011318)                556927.54
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3776999.53     2039.14893  (23111604)
        557027.54   3776999.53     1006.54571  (23111604)                557047.54
3776999.53      715.68981  (21020820)
        557067.54   3776999.53      710.31573  (21011318)                557087.54
3776999.53      698.60166  (21011318)
        556927.54   3777019.53     5979.81941  (20021203)                556947.54
3777019.53     5805.86462  (21012124)
        556967.54   3777019.53     4677.07146  (23111604)                556987.54
3777019.53     2796.82595  (23111604)
        557007.54   3777019.53     1365.95913  (23111604)                557027.54
3777019.53      831.82876  (21020820)
        557047.54   3777019.53      831.13771  (21011318)                557067.54
3777019.53      805.16740  (21011318)
        557087.54   3777019.53      808.66162  (19020905)                556927.54
3777039.53     6742.81359  (21012821)
        556947.54   3777039.53     6073.44675  (23111604)                556967.54
3777039.53     3905.17202  (23111604)
        556987.54   3777039.53     1905.33295  (23111604)                557007.54
3777039.53      984.24613  (21020820)
        557027.54   3777039.53      987.68330  (21011318)                557047.54
3777039.53      938.46886  (21011318)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
                      ***        13:24:37

                                 PAGE 143
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                             *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                   VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                   STCK2       ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
557067.54	3777039.53	1017.55544	(19020905)	557087.54	3777039.53	1071.42634	(19020905)
557047.54	3777059.53	1294.99383	(19020905)	557067.54	3777059.53	1319.08978	(19020905)
557087.54	3777059.53	1281.64139	(19020905)	556919.02	3777174.93	7626.22663	(19120102)
556939.02	3777174.93	5783.05572	(19120102)	556919.02	3777194.93	11513.73224	(19120324)
556939.02	3777194.93	8859.50163	(19120324)	556919.02	3777214.93	10552.34705	(20013120)
556939.02	3777214.93	8520.28733	(18120107)	556919.02	3777234.93	9477.17220	(23122320)
556939.02	3777234.93	7942.40325	(18120207)	556919.02	3777254.93	6973.34307	(19120718)
556939.02	3777254.93	6435.42998	(23122320)	557023.57	3777171.57	2797.49989	(19120324)
557043.57	3777171.57	2532.35379	(19120324)	557063.57	3777171.57	2297.30334	(19120324)
557083.57	3777171.57	2096.09233	(19120324)	557023.57	3777191.57	3943.02525	(19120324)
557043.57	3777191.57	3416.05921	(19120324)	557063.57	3777191.57	2990.13869	(19120324)
557083.57	3777191.57	2658.59803	(19120324)	557023.57	3777211.57	3940.78772	(21120718)
557043.57	3777211.57	3454.29620	(21120718)	557063.57	3777211.57	3050.27633	(21120718)
557083.57	3777211.57	2678.96868	(21120718)	557023.57	3777231.57	3912.12648	(21123002)
557043.57	3777231.57	3441.69015	(23122818)	557063.57	3777231.57	3016.77835	(23122818)
557083.57	3777231.57	2577.89151	(18120523)	557023.57	3777251.57	3746.30371	(19011701)
557043.57	3777251.57	3313.65466	(19011701)	557063.57	3777251.57	2952.88979	(20013120)
557083.57	3777251.57	2502.76963	(20013120)	556249.05	3776972.85	1528.57005	(23092902)
556269.05	3776972.85	1550.29599	(18030824)	556229.05	3776992.85	1552.35008	(19122921)
556249.05	3776992.85	1674.47928	(19122921)	556269.05			

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3776992.85     1697.76513  (19122921)
        556289.05   3776992.85     1734.03172  (23092902)                556309.05
3776992.85     1738.64949  (23092902)
        556329.05   3776992.85     1792.39426  (18030824)                556209.05
3777012.85     1446.29037  (21101420)
        556229.05   3777012.85     1507.89565  (19122921)                556249.05
3777012.85     1611.31809  (19122921)
        556269.05   3777012.85     1701.78629  (19122921)                556289.05
3777012.85     1792.04864  (19122921)
        556309.05   3777012.85     1924.94248  (19122921)                556329.05
3777012.85     1951.38663  (19122921)
        556209.05   3777032.85     1501.61778  (18123019)                556229.05
3777032.85     1563.94174  (21101420)
        556249.05   3777032.85     1627.85391  (21101420)                556269.05
3777032.85     1679.00987  (21101420)
        556289.05   3777032.85     1713.34013  (21101420)                556309.05
3777032.85     1836.98672  (19122921)
        556209.05   3777052.85     1462.78937  (20041705)                556229.05
3777052.85     1550.01807  (18123019)
        556249.05   3777052.85     1635.90805  (18123019)                556269.05
3777052.85     1716.89491  (18123019)
        556289.05   3777052.85     1786.41372  (18123019)                556309.05
3777052.85     1869.67584  (21101420)
        556249.05   3777072.85     1611.22976  (20041705)                556269.05
3777072.85     1685.18597  (20041705)
        556289.05   3777072.85     1753.52540  (20041705)                556269.05
3777092.85     1680.12315  (19112020)
        556441.69   3776927.49     2454.09657  (20011220)                556461.69
3776927.49     2540.23853  (20011220)
        556481.69   3776927.49     2548.15799  (20073101)                556421.69
3776947.49     2459.16553  (21120418)
        556441.69   3776947.49     2574.22421  (21120418)                556461.69
3776947.49     2578.26507  (18071905)
        556481.69   3776947.49     2753.31479  (20011220)                556401.69
3776967.49     2290.90885  (21122822)
        556421.69   3776967.49     2412.34820  (19120424)                556441.69
3776967.49     2552.82514  (21012120)
        556461.69   3776967.49     2751.55650  (21120418)                556481.69
3776967.49     2842.87683  (21120418)
        556401.69   3776987.49     2446.51113  (19020201)                556421.69
3776987.49     2500.34758  (19020201)
 *** AERMOD - VERSION 24142  ***   ***
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 *** AERMET - VERSION  22112 ***   ***
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                                  PAGE 144
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): VOL1 , VOL2 , VOL3 , VOL4 , VOL5 , VOL6 , VOL7 , VOL8 , VOL9 , VOL10 , VOL11 , VOL12 , STCK1 , STCK2 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
556441.69	3776987.49	2550.27372	(21122822)	556461.69	3776987.49	2710.46521	(19120424)
556481.69	3776987.49	2883.53279	(21012120)	556421.69	3777007.49	2530.20545	(19113019)
556441.69	3777007.49	2727.93998	(19020201)	556461.69	3777007.49	2807.54705	(19020201)
556481.69	3777007.49	2866.90907	(21122822)	556441.69	3777027.49	2595.25620	(19113019)
556461.69	3777027.49	2834.74810	(19113019)	556481.69	3777027.49	3067.83712	(19020201)
556251.24	3777154.95	1575.29963	(21120218)	556261.28	3777141.20	1622.85831	(19020922)
556264.98	3777168.16	1633.78478	(21120218)	556279.25	3777151.77	1672.23612	(19020922)
556202.60	3777113.45	1388.06834	(19090702)	556220.05	3777109.75	1445.75784	(23111620)
556187.53	3777090.19	1341.09113	(19112020)	556164.27	3777121.38	1308.87081	(19081106)
557510.26	3776508.23	438.23391	(23100204)	557530.26	3776508.23	448.85376	(19062905)
557550.26	3776508.23	447.23070	(19062905)	557570.26	3776508.23	434.19250	(19062905)
557590.26	3776508.23	413.35808	(19062905)	557610.26	3776508.23	386.95900	(19062905)
557630.26	3776508.23	354.04883	(19062905)	557650.26	3776508.23	324.72795	(20100702)
557670.26	3776508.23	321.75216	(21011318)	557690.26	3776508.23	335.54046	(21011318)
557510.26	3776528.23	459.43108	(19062905)	557530.26	3776528.23	457.04266	(19062905)
557550.26	3776528.23	443.72631	(19062905)	557570.26	3776528.23	419.00919	(19062905)

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        557590.26   3776528.23      390.43666  (19062905)               557610.26
3776528.23      357.16835  (19062905)
        557630.26   3776528.23      327.47320  (20100702)               557650.26
3776528.23      335.36965  (21011318)
        557670.26   3776528.23      347.87871  (21011318)               557690.26
3776528.23      354.92034  (21011318)
        557510.26   3776548.23      464.06608  (19062905)               557530.26
3776548.23      451.73293  (19062905)
        557550.26   3776548.23      423.55944  (19062905)               557570.26
3776548.23      391.07223  (19062905)
        557590.26   3776548.23      357.99589  (19062905)               557610.26
3776548.23      326.89252  (20100702)
        557630.26   3776548.23      343.54593  (21011318)               557650.26
3776548.23      357.63983  (21011318)
        557670.26   3776548.23      362.70791  (21011318)               557690.26
3776548.23      362.73792  (21011318)
        557510.26   3776568.23      454.05397  (19062905)               557530.26
3776568.23      430.29974  (19062905)
        557550.26   3776568.23      396.05475  (19062905)               557570.26
3776568.23      357.50243  (19062905)
        557590.26   3776568.23      333.94387  (21011318)               557610.26
3776568.23      350.03336  (21011318)
        557630.26   3776568.23      360.73213  (21011318)               557650.26
3776568.23      367.51301  (21011318)
        557670.26   3776568.23      364.43921  (21011318)               557690.26
3776568.23      355.69578  (21011318)
        557510.26   3776588.23      430.40043  (19062905)               557530.26
3776588.23      400.06374  (19062905)
        557550.26   3776588.23      361.15423  (19062905)               557570.26
3776588.23      342.21993  (21011318)
        557590.26   3776588.23      353.87319  (21011318)               557610.26
3776588.23      361.09394  (21011318)
        557630.26   3776588.23      365.91630  (21011318)               557650.26
3776588.23      364.06286  (21011318)
        557670.26   3776588.23      355.46155  (21011318)               557690.26
3776588.23      342.12269  (21011318)
        557510.26   3776608.23      396.35835  (19062905)               557530.26
3776608.23      361.67020  (19062905)
        557550.26   3776608.23      352.89915  (21011318)               557570.26
3776608.23      360.63889  (21011318)
        557590.26   3776608.23      361.23284  (21011318)               557610.26
3776608.23      360.05878  (21011318)
        557630.26   3776608.23      357.43669  (21011318)               557650.26
3776608.23      348.19724  (21011318)
        557670.26   3776608.23      333.24327  (21011318)               557690.26
3776608.23      314.68994  (21011318)
        557510.26   3776628.23      356.51810  (19062905)               557530.26
3776628.23      360.01296  (21011318)
 *** AERMOD - VERSION 24142  ***   ***
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 *** MODELOPTs: RegDFAULT CONC ELEV RURAL ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   VOL1   , VOL2
, VOL3   , VOL4   , VOL5   ,
                  VOL6   , VOL7   , VOL8   , VOL9   , VOL10
, VOL11   , VOL12   , STCK1   ,
                  STCK2   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        557550.26   3776628.23   364.00918 (21011318)   557570.26
3776628.23   369.74338 (21011318)
        557590.26   3776628.23   356.34628 (21011318)   557610.26
3776628.23   347.65204 (21011318)
        557630.26   3776628.23   336.75283 (21011318)   557650.26
3776628.23   324.27262 (21011318)
        557670.26   3776628.23   305.61300 (21011318)   557690.26
3776628.23   289.27667 (18120608)
        557510.26   3776648.23   360.76698 (21011318)   557530.26
3776648.23   364.06614 (21011318)
        557550.26   3776648.23   358.18506 (21011318)   557570.26
3776648.23   345.86849 (21011318)
        557590.26   3776648.23   337.08582 (21011318)   557610.26
3776648.23   321.64515 (21011318)
        557630.26   3776648.23   308.03370 (21011318)   557650.26
3776648.23   292.91559 (21011318)
        557670.26   3776648.23   279.83014 (18120608)   557690.26
3776648.23   272.00434 (18120608)
        557510.26   3776668.23   356.78893 (21011318)   557530.26
3776668.23   351.39866 (21011318)
        557550.26   3776668.23   337.89330 (21011318)   557570.26
3776668.23   321.06825 (21011318)
        557590.26   3776668.23   311.88467 (21011318)   557610.26
3776668.23   287.55444 (21011318)
        557630.26   3776668.23   271.11931 (21011318)   557650.26

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3776668.23      267.12051  (18120608)
        557670.26   3776668.23      258.99555  (18120608)                557690.26
3776668.23      257.28695  (21103006)
        557510.26   3776688.23      340.04288  (21011318)                557530.26
3776688.23      287.17067  (21011318)
        557550.26   3776688.23      275.46239  (21011318)                557570.26
3776688.23      262.10601  (21011318)
        557590.26   3776688.23      247.95839  (21011318)                557610.26
3776688.23      231.80692  (21011318)
        557630.26   3776688.23      225.17142  (18120608)                557650.26
3776688.23      229.67275  (19020905)
        557670.26   3776688.23      242.70071  (19020905)                557690.26
3776688.23      253.39012  (19020905)
        556172.49   3776517.81      985.42788  (23092301)                556192.49
3776517.81     1033.23716  (20111119)
        556212.49   3776517.81      986.15210  (20111119)                556232.49
3776517.81     1019.64339  (18123020)
        556252.49   3776517.81      995.69035  (18123020)                556272.49
3776517.81     1037.84268  (20111219)
        556292.49   3776517.81     1033.09851  (20111219)                556312.49
3776517.81     1039.16255  (21010719)
        556332.49   3776517.81     1056.67856  (18102919)                556352.49
3776517.81     1022.44731  (18102919)
        556372.49   3776517.81      956.31157  (20031603)                556392.49
3776517.81     1035.78184  (19020324)
        556412.49   3776517.81     1067.19565  (19020324)                556432.49
3776517.81      983.95057  (23111719)
        556452.49   3776517.81      994.44279  (23071306)                556472.49
3776517.81     1077.93693  (23071306)
        556492.49   3776517.81     1016.38878  (23071306)                556172.49
3776537.81      979.53347  (23092301)
        556192.49   3776537.81     1018.07760  (23092301)                556212.49
3776537.81     1058.03560  (20111119)
        556232.49   3776537.81     1015.84283  (20111119)                556252.49
3776537.81     1056.25851  (18123020)
        556272.49   3776537.81     1015.42363  (18123020)                556292.49
3776537.81     1083.36035  (20111219)
        556312.49   3776537.81     1059.80698  (20111219)                556332.49
3776537.81     1100.04455  (21010719)
        556352.49   3776537.81     1102.01820  (18102919)                556372.49
3776537.81     1030.17242  (20012518)
        556392.49   3776537.81      982.15838  (20031603)                556412.49
3776537.81     1090.34008  (19020324)
        556432.49   3776537.81     1077.50805  (19020324)                556452.49
3776537.81     1014.93217  (23111719)
        556472.49   3776537.81     1091.03483  (23071306)                556492.49
3776537.81     1112.98163  (23071306)
        556332.49   3776557.81     1108.76599  (20111219)                556352.49
3776557.81     1134.34760  (21010719)
        556372.49   3776557.81     1137.54753  (18102919)                556392.49
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3776557.81     1059.42664  (20012518)
        556412.49   3776557.81     1084.85158  (19020324)                556432.49
3776557.81     1158.97133  (19020324)
        556452.49   3776557.81     1064.23972  (19020324)                556472.49
3776557.81     1065.54059  (23111719)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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                                  PAGE 146
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556492.49   3776557.81     1168.40672  (23071306)                556332.49
3776577.81     1195.15424  (20111219)
        556352.49   3776577.81     1162.83860  (21010719)                556372.49
3776577.81     1187.31762  (21010719)
        556392.49   3776577.81     1180.89838  (18102919)                556412.49
3776577.81     1106.98582  (20031603)
        556432.49   3776577.81     1176.14570  (19020324)                556452.49
3776577.81     1200.54943  (19020324)
        556472.49   3776577.81     1137.41620  (23111719)                556492.49
3776577.81     1174.52029  (23071306)
        556332.49   3776597.81     1221.00095  (20111219)                556352.49
3776597.81     1255.72267  (20111219)
        556372.49   3776597.81     1233.51809  (21010719)                556392.49
3776597.81     1228.00814  (18102919)
        556412.49   3776597.81     1210.56181  (18102919)                556432.49
3776597.81     1144.31909  (20031603)
        556452.49   3776597.81     1236.80592  (19020324)                556472.49
3776597.81     1211.06571  (19020324)
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        556492.49   3776597.81     1202.52337  (23111719)              556252.49
3776617.81     1159.57633  (23092301)
        556272.49   3776617.81     1206.71220  (23092301)              556292.49
3776617.81     1256.14632  (20111119)
        556312.49   3776617.81     1242.15181  (18123020)              556332.49
3776617.81     1270.49033  (18123020)
        556352.49   3776617.81     1293.43115  (20111219)              556372.49
3776617.81     1318.35216  (20111219)
        556392.49   3776617.81     1309.04155  (21010719)              556412.49
3776617.81     1323.64159  (18102919)
        556432.49   3776617.81     1234.73760  (20012518)              556452.49
3776617.81     1249.58945  (19020324)
        556472.49   3776617.81     1305.45761  (19020324)              556492.49
3776617.81     1244.66876  (23111719)
        556252.49   3776637.81     1210.86025  (19011501)              556272.49
3776637.81     1215.95365  (23092301)
        556292.49   3776637.81     1264.92281  (23092301)              556312.49
3776637.81     1310.17677  (20111119)
        556332.49   3776637.81     1313.87601  (18123020)              556352.49
3776637.81     1347.02337  (18123020)
        556372.49   3776637.81     1379.34325  (20111219)              556392.49
3776637.81     1354.46734  (20111219)
        556412.49   3776637.81     1377.11546  (21010719)              556432.49
3776637.81     1367.04374  (18102919)
        556452.49   3776637.81     1266.31932  (20012518)              556472.49
3776637.81     1350.90238  (19020324)
        556492.49   3776637.81     1392.61353  (19020324)              556252.49
3776657.81     1329.20358  (19011501)
        556272.49   3776657.81     1289.93312  (19011501)              556292.49
3776657.81     1278.67535  (23092301)
        556312.49   3776657.81     1312.18504  (23092301)              556332.49
3776657.81     1386.98775  (20111119)
        556352.49   3776657.81     1396.60951  (18123020)              556372.49
3776657.81     1428.48583  (18123020)
        556392.49   3776657.81     1433.51348  (20111219)              556412.49
3776657.81     1389.50862  (20111219)
        556432.49   3776657.81     1421.60383  (21010719)              556452.49
3776657.81     1399.16610  (18102919)
        556472.49   3776657.81     1307.88965  (20031603)              556492.49
3776657.81     1463.97811  (19020324)
        556252.49   3776677.81     1315.54921  (19011501)              556272.49
3776677.81     1380.46912  (19011501)
        556292.49   3776677.81     1345.53477  (19011501)              556312.49
3776677.81     1322.58363  (23092301)
        556332.49   3776677.81     1399.71504  (20111119)              556352.49
3776677.81     1465.26721  (20111119)
        556372.49   3776677.81     1477.49104  (18123020)              556392.49
3776677.81     1466.24587  (18123020)
        556412.49   3776677.81     1520.44851  (20111219)              556432.49
3776677.81     1453.03879  (21010719)
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        556452.49   3776677.81     1473.28130  (18102919)                556472.49
3776677.81     1429.51629  (18102919)
        556492.49   3776677.81     1439.94389  (19020324)                556252.49
3776697.81     1294.28441  (19122922)
        556272.49   3776697.81     1351.74472  (19011501)                556372.49
3776697.81     1536.70786  (20111119)
        556392.49   3776697.81     1527.03559  (18123020)                556412.49
3776697.81     1522.00618  (18123020)
        556432.49   3776697.81     1567.93317  (20111219)                556452.49
3776697.81     1528.48858  (21010719)
        556472.49   3776697.81     1554.80199  (18102919)                556492.49
3776697.81     1483.66458  (20012518)
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                 INCLUDING SOURCE(S):     VOL1        , VOL2
, VOL3        , VOL4        , VOL5        ,
                  VOL6        , VOL7        , VOL8        , VOL9        , VOL10
, VOL11       , VOL12       , STCK1       ,
                  STCK2       ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF TOG      IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        556252.49   3776717.81     1342.34387  (21102119)                556272.49
3776717.81     1339.71947  (19122922)
        556372.49   3776717.81     1557.61207  (20111119)                556392.49
3776717.81     1578.64021  (20111119)
        556412.49   3776717.81     1618.41838  (18123020)                556432.49
3776717.81     1577.15718  (20111219)
        556452.49   3776717.81     1623.11447  (20111219)                556472.49
3776717.81     1660.05123  (21010719)
        556492.49   3776717.81     1643.77589  (18102919)                556267.40
3776875.81     1672.47114  (19120424)
        556239.03   3776853.02     1591.81609  (21012120)                556178.76
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*** THE SUMMARY OF MAXIMUM PERIOD (43824 HRS) RESULTS ***

** CONC OF TOG IN MICROGRAMS/M**3 **

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
LOADING_	1ST HIGHEST VALUE IS	130.77013 AT (556919.02, 3777214.93, 974.11, 974.83, 0.00)	DC	
	2ND HIGHEST VALUE IS	123.00923 AT (556919.02, 3777194.93, 975.13, 975.13, 0.00)	DC	
	3RD HIGHEST VALUE IS	113.88979 AT (556919.02, 3777234.93, 974.22, 974.22, 0.00)	DC	
	4TH HIGHEST VALUE IS	100.12529 AT (556919.02, 3777174.93, 975.11, 975.11, 0.00)	DC	
	5TH HIGHEST VALUE IS	85.41465 AT (556939.02, 3777214.93, 974.76, 974.76, 0.00)	DC	
	6TH HIGHEST VALUE IS	80.23515 AT (556919.02, 3777254.93, 973.97, 974.65, 0.00)	DC	
	7TH HIGHEST VALUE IS	79.61493 AT (556939.02, 3777234.93, 974.60, 974.60, 0.00)	DC	
	8TH HIGHEST VALUE IS	79.60602 AT (556939.02, 3777194.93, 975.02, 975.02, 0.00)	DC	
	9TH HIGHEST VALUE IS	69.12806 AT (556939.02, 3777174.93, 975.07, 975.07, 0.00)	DC	

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        10TH HIGHEST VALUE IS     62.99656 AT (  556939.02,  3777254.93,   974.28,
  974.28,    0.00)  DC

FUELING   1ST HIGHEST VALUE IS    127.79150 AT (  556919.02,  3777194.93,   975.13,
  975.13,    0.00)  DC
          2ND HIGHEST VALUE IS    117.43333 AT (  556919.02,  3777174.93,   975.11,
  975.11,    0.00)  DC
          3RD HIGHEST VALUE IS    103.69445 AT (  556919.02,  3777214.93,   974.11,
  974.83,    0.00)  DC
          4TH HIGHEST VALUE IS     81.69809 AT (  556939.02,  3777194.93,   975.02,
  975.02,    0.00)  DC
          5TH HIGHEST VALUE IS     75.50464 AT (  556939.02,  3777174.93,   975.07,
  975.07,    0.00)  DC
          6TH HIGHEST VALUE IS     74.81155 AT (  556939.02,  3777214.93,   974.76,
  974.76,    0.00)  DC
          7TH HIGHEST VALUE IS     72.17657 AT (  556919.02,  3777234.93,   974.22,
  974.22,    0.00)  DC
          8TH HIGHEST VALUE IS     57.83050 AT (  556939.02,  3777234.93,   974.60,
  974.60,    0.00)  DC
          9TH HIGHEST VALUE IS     51.15631 AT (  556919.02,  3777254.93,   973.97,
  974.65,    0.00)  DC
        10TH HIGHEST VALUE IS      46.91301 AT (  556927.54,  3777039.53,   977.10,
  977.10,    0.00)  DC

SPILL     1ST HIGHEST VALUE IS    129.82344 AT (  556919.02,  3777194.93,   975.13,
  975.13,    0.00)  DC
          2ND HIGHEST VALUE IS    117.72474 AT (  556919.02,  3777174.93,   975.11,
  975.11,    0.00)  DC
          3RD HIGHEST VALUE IS    105.57219 AT (  556919.02,  3777214.93,   974.11,
  974.83,    0.00)  DC
          4TH HIGHEST VALUE IS     82.56952 AT (  556939.02,  3777194.93,   975.02,
  975.02,    0.00)  DC
          5TH HIGHEST VALUE IS     75.97167 AT (  556939.02,  3777214.93,   974.76,
  974.76,    0.00)  DC
          6TH HIGHEST VALUE IS     75.23153 AT (  556939.02,  3777174.93,   975.07,
  975.07,    0.00)  DC
          7TH HIGHEST VALUE IS     72.71187 AT (  556919.02,  3777234.93,   974.22,
  974.22,    0.00)  DC
          8TH HIGHEST VALUE IS     58.30516 AT (  556939.02,  3777234.93,   974.60,
  974.60,    0.00)  DC
          9TH HIGHEST VALUE IS     51.21270 AT (  556919.02,  3777254.93,   973.97,
  974.65,    0.00)  DC
        10TH HIGHEST VALUE IS      48.24575 AT (  556927.54,  3777039.53,   977.10,
  977.10,    0.00)  DC

BREATHIN  1ST HIGHEST VALUE IS    131.26562 AT (  556919.02,  3777214.93,   974.11,
  974.83,    0.00)  DC
          2ND HIGHEST VALUE IS    123.41078 AT (  556919.02,  3777194.93,   975.13,
  975.13,    0.00)  DC
          3RD HIGHEST VALUE IS    114.29725 AT (  556919.02,  3777234.93,   974.22,
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  974.22,    0.00)  DC
         4TH HIGHEST VALUE IS     100.36929 AT (  556919.02,  3777174.93,   975.11,
  975.11,    0.00)  DC
         5TH HIGHEST VALUE IS      85.66451 AT (  556939.02,  3777214.93,   974.76,
  974.76,    0.00)  DC
         6TH HIGHEST VALUE IS      80.45889 AT (  556919.02,  3777254.93,   973.97,
  974.65,    0.00)  DC
         7TH HIGHEST VALUE IS      79.84682 AT (  556939.02,  3777234.93,   974.60,
  974.60,    0.00)  DC
         8TH HIGHEST VALUE IS      79.81432 AT (  556939.02,  3777194.93,   975.02,
  975.02,    0.00)  DC
         9TH HIGHEST VALUE IS      69.27814 AT (  556939.02,  3777174.93,   975.07,
  975.07,    0.00)  DC
        10TH HIGHEST VALUE IS      63.15292 AT (  556939.02,  3777254.93,   974.28,
  974.28,    0.00)  DC
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
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                                  PAGE 149
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                       *** THE SUMMARY OF MAXIMUM PERIOD ( 43824
HRS) RESULTS ***


                                    ** CONC OF TOG      IN MICROGRAMS/M**3
              **


                      NETWORK
GROUP ID                     AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

ALL      1ST HIGHEST VALUE IS     504.03495 AT (  556919.02,  3777194.93,   975.13,
  975.13,    0.00)  DC
         2ND HIGHEST VALUE IS     471.30240 AT (  556919.02,  3777214.93,   974.11,
  974.83,    0.00)  DC
         3RD HIGHEST VALUE IS     435.65266 AT (  556919.02,  3777174.93,   975.11,
  975.11,    0.00)  DC
         4TH HIGHEST VALUE IS     373.07548 AT (  556919.02,  3777234.93,   974.22,
  974.22,    0.00)  DC
         5TH HIGHEST VALUE IS     323.68795 AT (  556939.02,  3777194.93,   975.02,
  975.02,    0.00)  DC
         6TH HIGHEST VALUE IS     321.86238 AT (  556939.02,  3777214.93,   974.76,
  974.76,    0.00)  DC
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         7TH HIGHEST VALUE IS     289.14237 AT (  556939.02,  3777174.93,   975.07,
  975.07,    0.00)  DC
         8TH HIGHEST VALUE IS     275.59742 AT (  556939.02,  3777234.93,   974.60,
  974.60,    0.00)  DC
         9TH HIGHEST VALUE IS     263.06305 AT (  556919.02,  3777254.93,   973.97,
  974.65,    0.00)  DC
        10TH HIGHEST VALUE IS     211.24836 AT (  556939.02,  3777254.93,   974.28,
  974.28,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
08/25/25
 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF TOG      IN MICROGRAMS/M**3
              **

                                                        DATE
                                         NETWORK
GROUP ID                            AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -

LOADING_ HIGH   1ST HIGH VALUE IS    3210.48350  ON 21120718: AT (  556919.02,
3777214.93,   974.11,   974.83,    0.00)  DC

FUELING  HIGH   1ST HIGH VALUE IS    3623.85258  ON 21120718: AT (  556919.02,
3777194.93,   975.13,   975.13,    0.00)  DC

SPILL    HIGH   1ST HIGH VALUE IS    4068.76602  ON 21120718: AT (  556919.02,
3777194.93,   975.13,   975.13,    0.00)  DC

BREATHIN HIGH   1ST HIGH VALUE IS    3220.79660  ON 21120718: AT (  556919.02,
3777214.93,   974.11,   974.83,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS   11513.73224  ON 19120324: AT (  556919.02,
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3777194.93,   975.13,   975.13,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 24142  ***   ***
C:\Lakes\Yucca_Walmart_Fuel\Yucca_Walmart_Fuel_Construction\Yucca_Wa ***
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 *** AERMET - VERSION  22112 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  RURAL  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            4 Warning Message(s)
 A Total of         2103 Informational Message(s)

 A Total of        43824 Hours Were Processed

 A Total of          918 Calm Hours Identified

 A Total of         1185 Missing Hours Identified (  2.70 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     177       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     177       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

 MX W450   35065       CHKDAT: Record Out of Sequence in Meteorological File at:
 23010101
 MX W450   35065       CHKDAT: Record Out of Sequence in Meteorological File at:
1 year gap

    ************************************
    *** AERMOD Finishes Successfully ***
    ************************************
```

Construction Rates

Schedule

					Construction Vehicles						
				Work	Trips/Day		Total Trips		Miles/Trip		Weighted
Year	Phase	Start	End	Days	Vendor	Hauling	Vendor	Hauling	Vendor	Hauling	Trip length
2025	Demolition	11/11/2025	11/17/2025	5	0	119	0	595	10.2	20	
2025	Site Preparation	11/18/2025	11/26/2025	7	0	6.29	0	44	10.2	20	
2025	Grading	11/27/2025	11/28/2025	2	0	31	0	62	10.2	20	
2025	Building	11/29/2025	3/3/2026	67	4	0	268	0	10.2	20	
2026	Paving	3/4/2026	3/20/2026	13	0	0	0	0	10.2	20	
2026	Architectural Coating	3/21/2026	4/17/2026	20	0	0	0	0	10.2	20	
					4	*156.29*	*268*	*701*	*10.2*	*20*	*17.3*

PM_{10} Exhaust

On-Site Construction PM_{10} Exhaust (tons/yr)

Year	Phase	Days	Unmitigated	Unmitigated
2025	Demolition	5	1.42E-03	7.11E-03
2025	Site Preparation	7	1.97E-03	1.38E-02
2025	Grading	2	6.43E-04	1.29E-03
2025	Building	24	3.87E-03	9.28E-02
2026	Building	43	6.48E-03	2.79E-01
2026	Paving	13	1.19E-03	1.54E-02
2026	Architectural Coating	20	2.32E-04	4.63E-03
	Total	**114**		3.63E-03
			On-Site Weighted (g/s):	*0.00100292*

Off-Site Construction PM_{10} Exhaust (tons/yr)

Year	Phase	Unmitigated		Unmitigated
2025	Demolition	3.94E-04		1.97E-03
2025	Site Prepar	2.91E-05		2.04E-04
2025	Grading	4.10E-05		8.20E-05
2025	Building	1.35E-06		3.24E-05
2026	Building	2.54E-06		1.09E-04
2026	Paving	0.00E+00		0.00E+00
2026	Architectur	0.00E+00		0.00E+00
				2.10E-05
			g/s:	0.000006

*total days exclude overlap

PM_{10} Exhaust Off-Site

	Unmitigated g/s	g/s per mile	Weighted g/s
Off-Site	0.000006	3.3621E-07	3.36E-07

Construction Route		Length (meters)	Length (Miles)	Unmitigated Emission Rate (g/sec)	AERMOD Unitized Rate (g/s)
SLINE2	Construction Trucks In	188.4	0.12	3.94E-08	0.455732946
SLINE3	Construction Trucks Out	225	0.14	4.70E-08	0.544267054
			0.26	8.64E-08	1

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose				Risk by Age Group				
	X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
1	1	556521.71	3777341.57	556521.71, 3777341.57	0.73981	1.03857	0.000742	8.97E-08	0.00074	2.6E-07	7.8E-07	4.5E-07	4.1E-07	1.9E-07	8.6E-09	7.8E-08	0.0E+00	0.0E+00	0.0E+00	8.6E-08
2	1	556539.9	3777344.94	556539.9, 3777344.94	0.79104	1.10326	0.0007934	9.528E-08	0.00079	2.7E-07	8.3E-07	4.8E-07	4.4E-07	2.0E-07	9.2E-09	8.3E-08	0.0E+00	0.0E+00	0.0E+00	9.2E-08
3	1	556591.78	3777345.39	556591.78, 3777345.39	0.98192	1.35473	0.0009848	1.17E-07	0.00098	3.4E-07	1.0E-06	6.0E-07	5.4E-07	2.5E-07	1.1E-08	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
4	1	556630.62	3777349.66	556630.62, 3777349.66	1.09489	1.49706	0.0010981	1.293E-07	0.0011	3.8E-07	1.1E-06	6.6E-07	6.0E-07	2.7E-07	1.3E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
5	1	556684.29	3777349.43	556684.29, 3777349.43	1.27698	1.7924	0.0012807	1.548E-07	0.00128	4.4E-07	1.3E-06	7.8E-07	7.0E-07	3.2E-07	1.5E-08	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
6	1	556905.58	3777351.19	556905.58, 3777351.19	1.11229	3.24671	0.0011155	2.804E-07	0.00112	3.9E-07	1.2E-06	6.8E-07	6.1E-07	2.8E-07	1.3E-08	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
7	1	556920.93	3777350.82	556920.93, 3777350.82	1.03347	2.96155	0.0010365	2.558E-07	0.00104	3.6E-07	1.1E-06	6.3E-07	5.7E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
8	1	556942.87	3777350.09	556942.87, 3777350.09	0.91879	2.41967	0.0009215	2.09E-07	0.00092	3.2E-07	9.6E-07	5.6E-07	5.1E-07	2.3E-07	1.1E-08	9.7E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-07
9	1	556996.26	3777348.26	556996.26, 3777348.26	0.66671	1.2038	0.0006687	1.04E-07	0.00067	2.3E-07	7.0E-07	4.0E-07	3.7E-07	1.7E-07	7.7E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.8E-08
10	1	557096.81	3777357.77	557096.81, 3777357.77	0.34646	0.40762	0.0003475	3.52E-08	0.00035	1.2E-07	3.6E-07	2.1E-07	1.9E-07	8.7E-08	4.0E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
11	1	557115.83	3777363.62	557115.83, 3777363.62	0.30511	0.34637	0.000306	2.991E-08	0.00031	1.1E-07	3.2E-07	1.9E-07	1.7E-07	7.7E-08	3.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
12	1	557129.36	3777361.43	557129.36, 3777361.43	0.28636	0.31712	0.0002872	2.739E-08	0.00029	9.9E-08	3.0E-07	1.7E-07	1.6E-07	7.2E-08	3.3E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
13	1	557230.65	3777363.99	557230.65, 3777363.99	0.17367	0.17355	0.0001742	1.499E-08	0.00017	6.0E-08	1.8E-07	1.1E-07	9.6E-08	4.4E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
14	1	556466.22	3776816.07	556466.22, 3776816.07	0.09703	0.11577	9.731E-05	9.998E-09	9.7E-05	3.4E-08	1.0E-07	5.9E-08	5.3E-08	2.4E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08
15	1	556407.87	3776826.19	556407.87, 3776826.19	0.08521	0.09852	8.546E-05	8.509E-09	8.5E-05	3.0E-08	8.9E-08	5.2E-08	4.7E-08	2.1E-08	9.9E-10	8.9E-09	0.0E+00	0.0E+00	0.0E+00	9.9E-09
16	1	556381.07	3776807.14	556381.07, 3776807.14	0.07539	0.0856	7.561E-05	7.393E-09	7.6E-05	2.6E-08	7.9E-08	4.6E-08	4.1E-08	1.9E-08	8.7E-10	7.9E-09	0.0E+00	0.0E+00	0.0E+00	8.8E-09
17	1	556404.29	3776771.52	556404.29, 3776771.52	0.07189	0.08247	7.21E-05	7.122E-09	7.2E-05	2.5E-08	7.5E-08	4.4E-08	4.0E-08	1.8E-08	8.3E-10	7.6E-09	0.0E+00	0.0E+00	0.0E+00	8.4E-09
18	1	556465.21	3776739.51	556465.21, 3776739.51	0.07655	0.08946	7.677E-05	7.726E-09	7.7E-05	2.7E-08	8.0E-08	4.6E-08	4.2E-08	1.9E-08	8.9E-10	8.0E-09	0.0E+00	0.0E+00	0.0E+00	8.9E-09
19	1	556396.1	3776739.93	556396.1, 3776739.93	0.06463	0.07371	6.482E-05	6.366E-09	6.5E-05	2.2E-08	6.8E-08	3.9E-08	3.6E-08	1.6E-08	7.5E-10	6.8E-09	0.0E+00	0.0E+00	0.0E+00	7.5E-09
20	1	556323.99	3777265.43	556323.99, 3777265.43	0.27053	0.37735	0.0002713	3.259E-08	0.00027	9.4E-08	2.8E-07	1.6E-07	1.5E-07	6.8E-08	3.1E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
21	1	556330.6	3777233.99	556330.6, 3777233.99	0.2522	0.36814	0.0002529	3.179E-08	0.00025	8.8E-08	2.6E-07	1.5E-07	1.4E-07	6.3E-08	2.9E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
22	1	556321.08	3777200.43	556321.08, 3777200.43	0.21169	0.31384	0.0002123	2.71E-08	0.00021	7.4E-08	2.2E-07	1.3E-07	1.2E-07	5.3E-08	2.5E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
23	1	556275.11	3777267.81	556275.11, 3777267.81	0.21834	0.29279	0.000219	2.529E-08	0.00022	7.6E-08	2.3E-07	1.3E-07	1.2E-07	5.5E-08	2.5E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
24	1	556278.28	3777233.46	556278.28, 3777233.46	0.19872	0.2767	0.0001993	2.39E-08	0.0002	6.9E-08	2.1E-07	1.2E-07	1.1E-07	5.0E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
25	UCAR	556509.4	3777373.38	556509.4, 3777373.38	0.61023	0.80962	0.000612	6.992E-08	0.00061	2.1E-07	6.4E-07	3.7E-07	3.4E-07	1.5E-07	7.1E-09	6.4E-08	0.0E+00	0.0E+00	0.0E+00	7.1E-08
26	UCAR	556529.4	3777373.38	556529.4, 3777373.38	0.65561	0.87345	0.0006575	7.543E-08	0.00066	2.3E-07	6.9E-07	4.0E-07	3.6E-07	1.6E-07	7.6E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.6E-08
27	UCAR	556549.4	3777373.38	556549.4, 3777373.38	0.70225	0.93849	0.0007043	8.105E-08	0.0007	2.4E-07	7.4E-07	4.3E-07	3.9E-07	1.8E-07	8.1E-09	7.4E-08	0.0E+00	0.0E+00	0.0E+00	8.2E-08
28	UCAR	556569.4	3777373.38	556569.4, 3777373.38	0.74979	1.00511	0.000752	8.681E-08	0.00075	2.6E-07	7.9E-07	4.6E-07	4.1E-07	1.9E-07	8.7E-09	7.9E-08	0.0E+00	0.0E+00	0.0E+00	8.7E-08
29	UCAR	556589.4	3777373.38	556589.4, 3777373.38	0.79696	1.07269	0.0007993	9.264E-08	0.0008	2.8E-07	8.4E-07	4.8E-07	4.4E-07	2.0E-07	9.2E-09	8.4E-08	0.0E+00	0.0E+00	0.0E+00	9.3E-08
30	UCAR	556609.4	3777373.38	556609.4, 3777373.38	0.84369	1.14314	0.0008462	9.873E-08	0.00085	2.9E-07	8.8E-07	5.1E-07	4.6E-07	2.1E-07	9.8E-09	8.9E-08	0.0E+00	0.0E+00	0.0E+00	9.8E-08
31	UCAR	556629.4	3777373.38	556629.4, 3777373.38	0.88842	1.21586	0.000891	1.05E-07	0.00089	3.1E-07	9.3E-07	5.4E-07	4.9E-07	2.2E-07	1.0E-08	9.3E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
32	UCAR	556649.4	3777373.38	556649.4, 3777373.38	0.93047	1.29201	0.0009332	1.116E-07	0.00093	3.2E-07	9.8E-07	5.6E-07	5.1E-07	2.3E-07	1.1E-08	9.8E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-07
33	UCAR	556669.4	3777373.38	556669.4, 3777373.38	0.96754	1.37012	0.0009704	1.183E-07	0.00097	3.4E-07	1.0E-06	5.9E-07	5.3E-07	2.4E-07	1.1E-08	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
34	UCAR	556689.4	3777373.38	556689.4, 3777373.38	0.99773	1.45027	0.0010006	1.253E-07	0.001	3.5E-07	1.0E-06	6.1E-07	5.5E-07	2.5E-07	1.2E-08	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
35	UCAR	556709.4	3777373.38	556709.4, 3777373.38	1.01965	1.53389	0.0010226	1.325E-07	0.00102	3.5E-07	1.1E-06	6.2E-07	5.6E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
36	UCAR	556729.4	3777373.38	556729.4, 3777373.38	1.03318	1.62267	0.0010362	1.401E-07	0.00104	3.6E-07	1.1E-06	6.3E-07	5.7E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
37	UCAR	556749.4	3777373.38	556749.4, 3777373.38	1.04006	1.71659	0.0010431	1.483E-07	0.00104	3.6E-07	1.1E-06	6.3E-07	5.7E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
38	UCAR	556769.4	3777373.38	556769.4, 3777373.38	1.04456	1.82175	0.0010476	1.573E-07	0.00105	3.6E-07	1.1E-06	6.3E-07	5.7E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
39	UCAR	556789.4	3777373.38	556789.4, 3777373.38	1.04793	1.93138	0.001051	1.668E-07	0.00105	3.6E-07	1.1E-06	6.4E-07	5.8E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
40	UCAR	556809.4	3777373.38	556809.4, 3777373.38	1.04878	2.03439	0.0010518	1.757E-07	0.00105	3.6E-07	1.1E-06	6.4E-07	5.8E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
41	UCAR	556829.4	3777373.38	556829.4, 3777373.38	1.04287	2.12104	0.0010459	1.832E-07	0.00105	3.6E-07	1.1E-06	6.3E-07	5.7E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
42	UCAR	556849.4	3777373.38	556849.4, 3777373.38	1.02419	2.17123	0.0010272	1.875E-07	0.00103	3.6E-07	1.1E-06	6.2E-07	5.6E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
43	UCAR	556869.4	3777373.38	556869.4, 3777373.38	0.98853	2.16099	0.0009914	1.866E-07	0.00099	3.4E-07	1.0E-06	6.0E-07	5.4E-07	2.5E-07	1.1E-08	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
44	UCAR	556889.4	3777373.38	556889.4, 3777373.38	0.93618	2.08132	0.0009389	1.798E-07	0.00094	3.3E-07	9.8E-07	5.7E-07	5.2E-07	2.4E-07	1.1E-08	9.8E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-07
45	UCAR	556909.4	3777373.38	556909.4, 3777373.38	0.8706	1.92794	0.0008731	1.665E-07	0.00087	3.0E-07	9.1E-07	5.3E-07	4.8E-07	2.2E-07	1.0E-08	9.1E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
46	UCAR	556929.4	3777373.38	556929.4, 3777373.38	0.79735	1.71576	0.0007997	1.482E-07	0.0008	2.8E-07	8.4E-07	4.8E-07	4.4E-07	2.0E-07	9.2E-09	8.4E-08	0.0E+00	0.0E+00	0.0E+00	9.3E-08
47	UCAR	556949.4	3777373.38	556949.4, 3777373.38	0.72203	1.46904	0.0007241	1.269E-07	0.00072	2.5E-07	7.6E-07	4.4E-07	4.0E-07	1.8E-07	8.4E-09	7.6E-08	0.0E+00	0.0E+00	0.0E+00	8.4E-08
48	UCAR	556969.4	3777373.38	556969.4, 3777373.38	0.64907	1.22017	0.000651	1.054E-07	0.00065	2.3E-07	6.8E-07	3.9E-07	3.6E-07	1.6E-07	7.5E-09	6.8E-08	0.0E+00	0.0E+00	0.0E+00	7.6E-08
49	UCAR	556989.4	3777373.38	556989.4, 3777373.38	0.58127	0.99834	0.000583	8.622E-08	0.00058	2.0E-07	6.1E-07	3.5E-07	3.2E-07	1.5E-07	6.7E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
50	UCAR	557009.4	3777373.38	557009.4, 3777373.38	0.51998	0.81661	0.0005215	7.053E-08	0.00052	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	6.0E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	6.1E-08
51	UCAR	557029.4	3777373.38	557029.4, 3777373.38	0.46542	0.67357	0.0004668	5.817E-08	0.00047	1.6E-07	4.9E-07	2.8E-07	2.6E-07	1.2E-07	5.4E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.4E-08
52	UCAR	557049.4	3777373.38	557049.4, 3777373.38	0.41717	0.56213	0.0004184	4.855E-08	0.00042	1.4E-07	4.4E-07	2.5E-07	2.3E-07	1.0E-07	4.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
53	UCAR	557069.4	3777373.38	557069.4, 3777373.38	0.37453	0.47491	0.0003756	4.102E-08	0.00038	1.3E-07	3.9E-07	2.3E-07	2.1E-07	9.4E-08	4.3E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
54	UCAR	557089.4	3777373.38	557089.4, 3777373.38	0.33685	0.40588	0.0003378	3.505E-08	0.00034	1.2E-07	3.5E-07	2.0E-07	1.9E-07	8.5E-08	3.9E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
55	UCAR	557109.4	3777373.38	557109.4, 3777373.38	0.30353	0.35055	0.0003044	3.027E-08	0.0003	1.1E-07	3.2E-07	1.8E-07	1.7E-07	7.6E-08	3.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
56	UCAR	557129.4	3777373.38	557129.4, 3777373.38	0.27407	0.30562	0.0002749	2.639E-08	0.00027	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
57	UCAR	557149.4	3777373.38	557149.4, 3777373.38	0.24803	0.26869	0.0002488	2.321E-08	0.00025	8.6E-08	2.6E-07	1.5E-07	1.4E-07	6.2E-08	2.9E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
58	UCAR	557169.4	3777373.38	557169.4, 3777373.38	0.22503	0.23801	0.0002257	2.056E-08	0.00023	7.8E-08	2.4E-07	1.4E-07	1.2E-07	5.6E-08	2.6E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
59	UCAR	557189.4	3777373.38	557189.4, 3777373.38	0.20471	0.21227	0.0002053	1.833E-08	0.00021	7.1E-08	2.1E-07	1.2E-07	1.1E-07	5.1E-08	2.4E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
60	UCAR	557209.4	3777373.38	557209.4, 3777373.38	0.18674	0.19046	0.0001873	1.645E-08	0.00019	6.5E-08	2.0E-07	1.1E-07	1.0E-07	4.7E-08	2.2E-09	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
61	UCAR	557229.4	3777373.38	557229.4, 3777373.38	0.17082	0.17183	0.0001713	1.484E-08	0.00017	5.9E-08	1.8E-07	1.0E-07	9.4E-08	4.3E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
62	UCAR	557249.4	3777373.38	557249.4, 3777373.38	0.1567	0.1558	0.0001572	1.346E-08	0.00016	5.4E-08	1.6E-07	9.5E-08	8.6E-08	3.9E-08	1.8E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
63	UCAR	557269.4	3777373.38	557269.4, 3777373.38	0.14415	0.14192	0.0001446	1.226E-08	0.00014	5.0E-08	1.5E-07	8.7E-08	7.9E-08	3.6E-08	1.7E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
64	UCAR	557289.4	3777373.38	557289.4, 3777373.38	0.13298	0.12983	0.0001334	1.121E-08	0.00013	4.6E-08	1.4E-07	8.1E-08	7.3E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
65	UCAR	557309.4	3777373.38	557309.4, 3777373.38	0.12301	0.11924	0.0001234	1.03E-08	0.00012	4.3E-08	1.3E-07	7.5E-08	6.8E-08	3.1E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
66	UCAR	557329.4	3777373.38	557329.4, 3777373.38	0.11407	0.1099	0.0001144	9.491E-09	0.00011	4.0E-08	1.2E-07	6.9E-08	6.3E-08	2.9E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
67	UCAR	557349.4	3777373.38	557349.4, 3777373.38	0.10606	0.10164	0.0001064	8.778E-09	0.00011	3.7E-08	1.1E-07	6.4E-08	5.8E-08	2.7E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
68	UCAR	557369.4	3777373.38	557369.4, 3777373.38	0.09883	0.0943	9.912E-05	8.144E-09	9.9E-05	3.4E-08	1.0E-07	6.0E-08	5.4E-08	2.5E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
69	UCAR	557389.4	3777373.38	557389.4, 3777373.38	0.09231	0.08774	9.258E-05	7.578E-09	9.3E-05	3.2E-08	9.7E-08	5.6E-08	5.1E-08	2.3E-08	1.1E-09	9.7E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
70	UCAR	557409.4	3777373.38	557409.4, 3777373.38	0.0864	0.08186	8.665E-05	7.07E-09	8.7E-05	3.0E-08	9.1E-08	5.2E-08	4.8E-08	2.2E-08	1.0E-09	9.1E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
71	UCAR	557429.4	3777373.38	557429.4, 3777373.38	0.08103	0.07656	8.127E-05	6.612E-09	8.1E-05	2.8E-08	8.5E-08	4.9E-08	4.5E-08	2.0E-08	9.4E-10	8.5E-09	0.0E+00	0.0E+00	0.0E+00	9.4E-09
72	UCAR	557449.4	3777373.38	557449.4, 3777373.38	0.07616	0.07179	7.638E-05	6.2E-09	7.6E-05	2.6E-08	8.0E-08	4.6E-08	4.2E-08	1.9E-08	8.8E-10	8.0E-09	0.0E+00	0.0E+00	0.0E+00	8.9E-09
73	UCAR	557469.4	3777373.38	557469.4, 3777373.38	0.07171	0.06746	7.192E-05	5.826E-09	7.2E-05	2.5E-08	7.5E-08	4.4E-08	3.9E-08	1.8E-08	8.3E-10	7.5E-09	0.0E+00	0.0E+00	0.0E+00	8.4E-09
74	UCAR	557489.4	3777373.38	557489.4, 3777373.38	0.06762	0.06352	6.782E-05	5.486E-09	6.8E-05	2.3E-08	7.1E-08	4.1E-08	3.7E-08	1.7E-08	7.8E-10	7.1E-09	0.0E+00	0.0E+00	0.0E+00	7.9E-09
75	UCAR	556509.4	3777393.38	556509.4, 3777393.38	0.55144	0.7197	0.0005531	6.216E-08	0.00055	1.9E-07	5.8E-07	3.3E-07	3.0E-07	1.4E-07	6.4E-09	5.8E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
76	UCAR	556529.4	3777393.38	556529.4, 3777393.38	0.58578	0.76941	0.0005875	6.645E-08	0.00059	2.0E-07	6.1E-07	3.6E-07	3.2E-07	1.5E-07	6.8E-09	6.2E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
77	UCAR	556549.4	3777393.38	556549.4, 3777393.38	0.62014	0.81991	0.000622	7.081E-08	0.00062	2.2E-07	6.5E-07	3.8E-07	3.4E-07	1.6E-07	7.2E-09	6.5E-08	0.0E+00	0.0E+00	0.0E+00	7.2E-08
78	UCAR	556569.4	3777393.38	556569.4, 3777393.38	0.65425	0.87157	0.0006562	7.527E-08	0.00066	2.3E-07	6.9E-07	4.0E-07	3.6E-07	1.6E-07	7.6E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.6E-08
79	UCAR	556589.4	3777393.38	556589.4, 3777393.38	0.68713	0.92381	0.0006891	7.978E-08	0.00069	2.4E-07	7.2E-07	4.2E-07	3.8E-07	1.7E-07	8.0E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
80	UCAR	556609.4	3777393.38	556609.4, 3777393.38	0.719	0.9781	0.0007211	8.447E-08	0.00072	2.5E-07	7.5E-07	4.4E-07	4.0E-07	1.8E-07	8.3E-09	7.6E-08	0.0E+00	0.0E+00	0.0E+00	8.4E-08
81	UCAR	556629.4	3777393.38	556629.4, 3777393.38	0.74871	1.03361	0.0007509	8.927E-08	0.00075	2.6E-07	7.8E-07	4.5E-07	4.1E-07	1.9E-07	8.7E-09	7.9E-08	0.0E+00	0.0E+00	0.0E+00	8.7E-08
82	UCAR	556649.4	3777393.38	556649.4, 3777393.38	0.77606	1.09181	0.0007783	9.429E-08	0.00078	2.7E-07	8.1E-07	4.7E-07	4.3E-07	1.9E-07	9.0E-09	8.2E-08	0.0E+00	0.0E+00	0.0E+00	9.1E-08
83	UCAR	556669.4	3777393.38	556669.4, 3777393.38	0.79912	1.15094	0.0008015	9.94E-08	0.0008	2.8E-07	8.4E-07	4.8E-07	4.4E-07	2.0E-07	9.3E-09	8.4E-08	0.0E+00	0.0E+00	0.0E+00	9.3E-08
84	UCAR	556689.4	3777393.38	556689.4, 3777393.38	0.81659	1.21071	0.000819	1.046E-07	0.00082	2.8E-07	8.6E-07	5.0E-07	4.5E-07	2.0E-07	9.5E-09	8.6E-08	0.0E+00	0.0E+00	0.0E+00	9.5E-08
85	UCAR	556709.4	3777393.38	556709.4, 3777393.38	0.82774	1.27004	0.0008302	1.097E-07	0.00083	2.9E-07	8.7E-07	5.0E-07	4.6E-07	2.1E-07	9.6E-09	8.7E-08	0.0E+00	0.0E+00	0.0E+00	9.7E-08
86	UCAR	556729.4	3777393.38	556729.4, 3777393.38	0.83406	1.33066	0.0008365	1.149E-07	0.00084	2.9E-07	8.7E-07	5.1E-07	4.6E-07	2.1E-07	9.7E-09	8.8E-08	0.0E+00	0.0E+00	0.0E+00	9.7E-08
87	UCAR	556749.4	3777393.38	556749.4, 3777393.38	0.83718	1.38957	0.0008396	1.2E-07	0.00084	2.9E-07	8.8E-07	5.1E-07	4.6E-07	2.1E-07	9.7E-09	8.8E-08	0.0E+00	0.0E+00	0.0E+00	9.8E-08
88	UCAR	556769.4	3777393.38	556769.4, 3777393.38	0.84002	1.44955	0.0008425	1.252E-07	0.00084	2.9E-07	8.8E-07	5.1E-07	4.6E-07	2.1E-07	9.7E-09	8.8E-08	0.0E+00	0.0E+00	0.0E+00	9.8E-08
89	UCAR	556789.4	3777393.38	556789.4, 3777393.38	0.84293	1.50471	0.0008454	1.3E-07	0.00085	2.9E-07	8.8E-07	5.1E-07	4.6E-07	2.1E-07	9.8E-09	8.9E-08

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose					Risk by Age Group					
	X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
97 UCAR	556949.4	3777393.38	556949.4, 3777393.38	0.61364	1.09735	0.0006154	9.477E-08	0.00062	2.1E-07	6.4E-07	3.7E-07	3.4E-07	1.5E-07	7.1E-09	6.4E-08	0.0E+00	0.0E+00	0.0E+00	7.2E-08
98 UCAR	556969.4	3777393.38	556969.4, 3777393.38	0.55863	0.95004	0.0005603	8.205E-08	0.00056	1.9E-07	5.9E-07	3.4E-07	3.1E-07	1.4E-07	6.5E-09	5.9E-08	0.0E+00	0.0E+00	0.0E+00	6.5E-08
99 UCAR	556989.4	3777393.38	556989.4, 3777393.38	0.5062	0.81045	0.0005077	6.999E-08	0.00051	1.8E-07	5.3E-07	3.1E-07	2.8E-07	1.3E-07	5.9E-09	5.3E-08	0.0E+00	0.0E+00	0.0E+00	5.9E-08
100 UCAR	557009.4	3777393.38	557009.4, 3777393.38	0.45774	0.68746	0.0004591	5.937E-08	0.00046	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.1E-07	5.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
101 UCAR	557029.4	3777393.38	557029.4, 3777393.38	0.41382	0.58395	0.000415	5.043E-08	0.00042	1.4E-07	4.3E-07	2.5E-07	2.3E-07	1.0E-07	4.8E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
102 UCAR	557049.4	3777393.38	557049.4, 3777393.38	0.37442	0.49871	0.0003755	4.307E-08	0.00038	1.3E-07	3.9E-07	2.3E-07	2.1E-07	9.4E-08	4.3E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
103 UCAR	557069.4	3777393.38	557069.4, 3777393.38	0.33921	0.429	0.0003402	3.705E-08	0.00034	1.2E-07	3.6E-07	2.1E-07	1.9E-07	8.5E-08	3.9E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
104 UCAR	557089.4	3777393.38	557089.4, 3777393.38	0.30772	0.37193	0.0003086	3.212E-08	0.00031	1.1E-07	3.2E-07	1.9E-07	1.7E-07	7.7E-08	3.6E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
105 UCAR	557109.4	3777393.38	557109.4, 3777393.38	0.27955	0.32495	0.0002804	2.806E-08	0.00028	9.7E-08	2.9E-07	1.7E-07	1.5E-07	7.0E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
106 UCAR	557129.4	3777393.38	557129.4, 3777393.38	0.25429	0.28595	0.000255	2.47E-08	0.00026	8.8E-08	2.7E-07	1.5E-07	1.4E-07	6.4E-08	2.9E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
107 UCAR	557149.4	3777393.38	557149.4, 3777393.38	0.23169	0.25336	0.0002324	2.188E-08	0.00023	8.0E-08	2.4E-07	1.4E-07	1.3E-07	5.8E-08	2.7E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
108 UCAR	557169.4	3777393.38	557169.4, 3777393.38	0.21144	0.22588	0.0002121	1.951E-08	0.00021	7.3E-08	2.2E-07	1.3E-07	1.2E-07	5.3E-08	2.5E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
109 UCAR	557189.4	3777393.38	557189.4, 3777393.38	0.19333	0.20253	0.0001939	1.749E-08	0.00019	6.7E-08	2.0E-07	1.2E-07	1.1E-07	4.9E-08	2.2E-09	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
110 UCAR	557209.4	3777393.38	557209.4, 3777393.38	0.17717	0.18259	0.0001777	1.577E-08	0.00018	6.2E-08	1.9E-07	1.1E-07	9.7E-08	4.4E-08	2.1E-09	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
111 UCAR	557229.4	3777393.38	557229.4, 3777393.38	0.16273	0.1654	0.0001632	1.428E-08	0.00016	5.7E-08	1.7E-07	9.9E-08	9.0E-08	4.1E-08	1.9E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
112 UCAR	557249.4	3777393.38	557249.4, 3777393.38	0.1498	0.1505	0.0001502	1.3E-08	0.00015	5.2E-08	1.6E-07	9.1E-08	8.2E-08	3.8E-08	1.7E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
113 UCAR	557269.4	3777393.38	557269.4, 3777393.38	0.13824	0.13752	0.0001386	1.188E-08	0.00014	4.8E-08	1.4E-07	8.4E-08	7.6E-08	3.5E-08	1.6E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
114 UCAR	557289.4	3777393.38	557289.4, 3777393.38	0.12788	0.12614	0.0001283	1.089E-08	0.00013	4.4E-08	1.3E-07	7.8E-08	7.0E-08	3.2E-08	1.5E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
115 UCAR	557309.4	3777393.38	557309.4, 3777393.38	0.11857	0.11611	0.0001189	1.003E-08	0.00012	4.1E-08	1.2E-07	7.2E-08	6.5E-08	3.0E-08	1.4E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
116 UCAR	557329.4	3777393.38	557329.4, 3777393.38	0.11023	0.10726	0.0001106	9.263E-09	0.00011	3.8E-08	1.2E-07	6.7E-08	6.1E-08	2.8E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
117 UCAR	557349.4	3777393.38	557349.4, 3777393.38	0.1027	0.09939	0.000103	8.584E-09	0.0001	3.6E-08	1.1E-07	6.2E-08	5.6E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
118 UCAR	557369.4	3777393.38	557369.4, 3777393.38	0.09589	0.09236	9.617E-05	7.977E-09	9.6E-05	3.3E-08	1.0E-07	5.8E-08	5.3E-08	2.4E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08
119 UCAR	557389.4	3777393.38	557389.4, 3777393.38	0.08973	0.08607	8.999E-05	7.433E-09	9E-05	3.1E-08	9.4E-08	5.4E-08	4.9E-08	2.3E-08	1.0E-09	9.4E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
120 UCAR	557409.4	3777393.38	557409.4, 3777393.38	0.08412	0.08041	8.437E-05	6.945E-09	8.4E-05	2.9E-08	8.8E-08	5.1E-08	4.6E-08	2.1E-08	9.8E-10	8.8E-09	0.0E+00	0.0E+00	0.0E+00	9.8E-09
121 UCAR	557429.4	3777393.38	557429.4, 3777393.38	0.07902	0.07531	7.925E-05	6.504E-09	7.9E-05	2.7E-08	8.3E-08	4.8E-08	4.3E-08	2.0E-08	9.2E-10	8.3E-09	0.0E+00	0.0E+00	0.0E+00	9.2E-09
122 UCAR	557449.4	3777393.38	557449.4, 3777393.38	0.07438	0.0707	7.46E-05	6.106E-09	7.5E-05	2.6E-08	7.8E-08	4.5E-08	4.1E-08	1.9E-08	8.6E-10	7.8E-09	0.0E+00	0.0E+00	0.0E+00	8.7E-09
123 UCAR	557469.4	3777393.38	557469.4, 3777393.38	0.07012	0.06651	7.033E-05	5.744E-09	7E-05	2.4E-08	7.4E-08	4.3E-08	3.9E-08	1.8E-08	8.1E-10	7.4E-09	0.0E+00	0.0E+00	0.0E+00	8.2E-09
124 UCAR	557489.4	3777393.38	557489.4, 3777393.38	0.06621	0.06268	6.64E-05	5.413E-09	6.6E-05	2.3E-08	6.9E-08	4.0E-08	3.6E-08	1.7E-08	7.7E-10	7.0E-09	0.0E+00	0.0E+00	0.0E+00	7.7E-09
125 UCAR	556509.4	3777413.38	556509.4, 3777413.38	0.49445	0.64091	0.0004959	5.535E-08	0.0005	1.7E-07	5.2E-07	3.0E-07	2.7E-07	1.2E-07	5.7E-09	5.2E-08	0.0E+00	0.0E+00	0.0E+00	5.8E-08
126 UCAR	556529.4	3777413.38	556529.4, 3777413.38	0.51989	0.67976	0.0005214	5.871E-08	0.00052	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	6.0E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	6.1E-08
127 UCAR	556549.4	3777413.38	556549.4, 3777413.38	0.54478	0.71907	0.0005464	6.21E-08	0.00055	1.9E-07	5.7E-07	3.3E-07	3.0E-07	1.4E-07	6.3E-09	5.7E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
128 UCAR	556569.4	3777413.38	556569.4, 3777413.38	0.56899	0.75909	0.0005707	6.556E-08	0.00057	2.0E-07	6.0E-07	3.5E-07	3.1E-07	1.4E-07	6.6E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.6E-08
129 UCAR	556589.4	3777413.38	556589.4, 3777413.38	0.59231	0.80002	0.000594	6.909E-08	0.00059	2.1E-07	6.2E-07	3.6E-07	3.3E-07	1.5E-07	6.9E-09	6.2E-08	0.0E+00	0.0E+00	0.0E+00	6.9E-08
130 UCAR	556609.4	3777413.38	556609.4, 3777413.38	0.61443	0.84196	0.0006162	7.271E-08	0.00062	2.1E-07	6.4E-07	3.7E-07	3.4E-07	1.5E-07	7.1E-09	6.5E-08	0.0E+00	0.0E+00	0.0E+00	7.2E-08
131 UCAR	556629.4	3777413.38	556629.4, 3777413.38	0.63464	0.88457	0.0006365	7.639E-08	0.00064	2.2E-07	6.7E-07	3.9E-07	3.5E-07	1.6E-07	7.4E-09	6.7E-08	0.0E+00	0.0E+00	0.0E+00	7.4E-08
132 UCAR	556649.4	3777413.38	556649.4, 3777413.38	0.65257	0.92842	0.0006545	8.018E-08	0.00065	2.3E-07	6.8E-07	4.0E-07	3.6E-07	1.6E-07	7.6E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.6E-08
133 UCAR	556669.4	3777413.38	556669.4, 3777413.38	0.66665	0.97189	0.0006686	8.394E-08	0.00067	2.3E-07	7.0E-07	4.0E-07	3.7E-07	1.7E-07	7.7E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.8E-08
134 UCAR	556689.4	3777413.38	556689.4, 3777413.38	0.67644	1.01472	0.0006784	8.764E-08	0.00068	2.3E-07	7.1E-07	4.1E-07	3.7E-07	1.7E-07	7.8E-09	7.1E-08	0.0E+00	0.0E+00	0.0E+00	7.9E-08
135 UCAR	556709.4	3777413.38	556709.4, 3777413.38	0.68212	1.05601	0.0006841	9.12E-08	0.00068	2.4E-07	7.2E-07	4.1E-07	3.8E-07	1.7E-07	7.9E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
136 UCAR	556729.4	3777413.38	556729.4, 3777413.38	0.68511	1.09539	0.0006871	9.46E-08	0.00069	2.4E-07	7.2E-07	4.2E-07	3.8E-07	1.7E-07	7.9E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
137 UCAR	556749.4	3777413.38	556749.4, 3777413.38	0.68717	1.132	0.0006892	9.776E-08	0.00069	2.4E-07	7.2E-07	4.2E-07	3.8E-07	1.7E-07	8.0E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
138 UCAR	556769.4	3777413.38	556769.4, 3777413.38	0.68909	1.16171	0.0006911	1.003E-07	0.00069	2.4E-07	7.2E-07	4.2E-07	3.8E-07	1.7E-07	8.0E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
139 UCAR	556789.4	3777413.38	556789.4, 3777413.38	0.69163	1.18561	0.0006937	1.024E-07	0.00069	2.4E-07	7.3E-07	4.2E-07	3.8E-07	1.7E-07	8.0E-09	7.3E-08	0.0E+00	0.0E+00	0.0E+00	8.1E-08
140 UCAR	556809.4	3777413.38	556809.4, 3777413.38	0.69267	1.19652	0.0006947	1.033E-07	0.00069	2.4E-07	7.3E-07	4.2E-07	3.8E-07	1.7E-07	8.0E-09	7.3E-08	0.0E+00	0.0E+00	0.0E+00	8.1E-08
141 UCAR	556829.4	3777413.38	556829.4, 3777413.38	0.69021	1.19379	0.0006922	1.031E-07	0.00069	2.4E-07	7.2E-07	4.2E-07	3.8E-07	1.7E-07	8.0E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
142 UCAR	556849.4	3777413.38	556849.4, 3777413.38	0.68138	1.17506	0.0006834	1.015E-07	0.00068	2.4E-07	7.1E-07	4.1E-07	3.7E-07	1.7E-07	7.9E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	7.9E-08
143 UCAR	556869.4	3777413.38	556869.4, 3777413.38	0.66424	1.13948	0.0006662	9.841E-08	0.00067	2.3E-07	7.0E-07	4.0E-07	3.7E-07	1.7E-07	7.7E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.7E-08
144 UCAR	556889.4	3777413.38	556889.4, 3777413.38	0.63868	1.08908	0.0006405	9.406E-08	0.00064	2.2E-07	6.7E-07	3.9E-07	3.5E-07	1.6E-07	7.4E-09	6.7E-08	0.0E+00	0.0E+00	0.0E+00	7.4E-08
145 UCAR	556909.4	3777413.38	556909.4, 3777413.38	0.60577	1.02405	0.0006075	8.844E-08	0.00061	2.1E-07	6.4E-07	3.7E-07	3.3E-07	1.5E-07	7.0E-09	6.4E-08	0.0E+00	0.0E+00	0.0E+00	7.1E-08
146 UCAR	556929.4	3777413.38	556929.4, 3777413.38	0.56753	0.94528	0.0005692	8.164E-08	0.00057	2.0E-07	6.0E-07	3.4E-07	3.1E-07	1.4E-07	6.6E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.6E-08
147 UCAR	556949.4	3777413.38	556949.4, 3777413.38	0.52631	0.85613	0.0005278	7.394E-08	0.00053	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	6.1E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	6.1E-08
148 UCAR	556969.4	3777413.38	556969.4, 3777413.38	0.48427	0.76159	0.0004857	6.577E-08	0.00049	1.7E-07	5.1E-07	2.9E-07	2.7E-07	1.2E-07	5.6E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
149 UCAR	556989.4	3777413.38	556989.4, 3777413.38	0.44327	0.66866	0.0004446	5.775E-08	0.00044	1.5E-07	4.6E-07	2.7E-07	2.4E-07	1.1E-07	5.1E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
150 UCAR	557009.4	3777413.38	557009.4, 3777413.38	0.40458	0.58281	0.0004058	5.033E-08	0.00041	1.4E-07	4.2E-07	2.5E-07	2.2E-07	1.0E-07	4.7E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
151 UCAR	557029.4	3777413.38	557029.4, 3777413.38	0.36891	0.50689	0.00037	4.378E-08	0.00037	1.3E-07	3.9E-07	2.2E-07	2.0E-07	9.3E-08	4.3E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
152 UCAR	557049.4	3777413.38	557049.4, 3777413.38	0.3365	0.44157	0.0003375	3.814E-08	0.00034	1.2E-07	3.5E-07	2.0E-07	1.9E-07	8.4E-08	3.9E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
153 UCAR	557069.4	3777413.38	557069.4, 3777413.38	0.30726	0.38612	0.0003082	3.335E-08	0.00031	1.1E-07	3.2E-07	1.9E-07	1.7E-07	7.7E-08	3.6E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
154 UCAR	557089.4	3777413.38	557089.4, 3777413.38	0.28089	0.33929	0.0002817	2.93E-08	0.00028	9.8E-08	2.9E-07	1.7E-07	1.5E-07	7.1E-08	3.3E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
155 UCAR	557109.4	3777413.38	557109.4, 3777413.38	0.25708	0.29974	0.0002578	2.589E-08	0.00026	8.9E-08	2.7E-07	1.6E-07	1.4E-07	6.5E-08	3.0E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
156 UCAR	557129.4	3777413.38	557129.4, 3777413.38	0.23549	0.26623	0.0002362	2.299E-08	0.00024	8.2E-08	2.5E-07	1.4E-07	1.3E-07	5.9E-08	2.7E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
157 UCAR	557149.4	3777413.38	557149.4, 3777413.38	0.21598	0.23775	0.0002166	2.053E-08	0.00022	7.5E-08	2.3E-07	1.3E-07	1.2E-07	5.4E-08	2.5E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
158 UCAR	557169.4	3777413.38	557169.4, 3777413.38	0.19827	0.21336	0.0001988	1.843E-08	0.0002	6.9E-08	2.1E-07	1.2E-07	1.1E-07	5.0E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
159 UCAR	557189.4	3777413.38	557189.4, 3777413.38	0.18226	0.19241	0.0001828	1.662E-08	0.00018	6.3E-08	1.9E-07	1.1E-07	1.0E-07	4.6E-08	2.1E-09	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
160 UCAR	557209.4	3777413.38	557209.4, 3777413.38	0.16781	0.17431	0.0001683	1.505E-08	0.00017	5.8E-08	1.8E-07	1.0E-07	9.2E-08	4.2E-08	1.9E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
161 UCAR	557229.4	3777413.38	557229.4, 3777413.38	0.15475	0.15857	0.0001552	1.369E-08	0.00016	5.4E-08	1.6E-07	9.4E-08	8.5E-08	3.9E-08	1.8E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
162 UCAR	557249.4	3777413.38	557249.4, 3777413.38	0.14297	0.14483	0.0001434	1.251E-08	0.00014	5.0E-08	1.5E-07	8.7E-08	7.9E-08	3.6E-08	1.7E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
163 UCAR	557269.4	3777413.38	557269.4, 3777413.38	0.13237	0.13278	0.0001328	1.147E-08	0.00013	4.6E-08	1.4E-07	8.0E-08	7.3E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
164 UCAR	557289.4	3777413.38	557289.4, 3777413.38	0.12281	0.12215	0.0001232	1.055E-08	0.00012	4.3E-08	1.3E-07	7.5E-08	6.8E-08	3.1E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
165 UCAR	557309.4	3777413.38	557309.4, 3777413.38	0.11417	0.11274	0.0001145	9.737E-09	0.00011	4.0E-08	1.2E-07	6.9E-08	6.3E-08	2.9E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
166 UCAR	557329.4	3777413.38	557329.4, 3777413.38	0.10637	0.10437	0.0001067	9.014E-09	0.00011	3.7E-08	1.1E-07	6.5E-08	5.9E-08	2.7E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
167 UCAR	557349.4	3777413.38	557349.4, 3777413.38	0.09932	0.09692	9.961E-05	8.37E-09	1E-04	3.4E-08	1.0E-07	6.0E-08	5.5E-08	2.5E-08	1.2E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
168 UCAR	557369.4	3777413.38	557369.4, 3777413.38	0.09291	0.09022	9.318E-05	7.792E-09	9.3E-05	3.2E-08	9.7E-08	5.6E-08	5.1E-08	2.3E-08	1.1E-09	9.8E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
169 UCAR	557389.4	3777413.38	557389.4, 3777413.38	0.0871	0.08423	8.735E-05	7.274E-09	8.7E-05	3.0E-08	9.1E-08	5.3E-08	4.8E-08	2.2E-08	1.0E-09	9.1E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
170 UCAR	557409.4	3777413.38	557409.4, 3777413.38	0.0818	0.07882	8.204E-05	6.807E-09	8.2E-05	2.8E-08	8.6E-08	5.0E-08	4.5E-08	2.1E-08	9.5E-10	8.6E-09	0.0E+00	0.0E+00	0.0E+00	9.5E-09
171 UCAR	557429.4	3777413.38	557429.4, 3777413.38	0.07695	0.07391	7.717E-05	6.383E-09	7.7E-05	2.7E-08	8.1E-08	4.7E-08	4.2E-08	1.9E-08	8.9E-10	8.1E-09	0.0E+00	0.0E+00	0.0E+00	9.0E-09
172 UCAR	557449.4	3777413.38	557449.4, 3777413.38	0.07253	0.06947	7.274E-05	6E-09	7.3E-05	2.5E-08	7.6E-08	4.4E-08	4.0E-08	1.8E-08	8.4E-10	7.6E-09	0.0E+00	0.0E+00	0.0E+00	8.5E-09
173 UCAR	557469.4	3777413.38	557469.4, 3777413.38	0.06849	0.06544	6.869E-05	5.652E-09	6.9E-05	2.4E-08	7.2E-08	4.2E-08	3.8E-08	1.7E-08	7.9E-10	7.2E-09	0.0E+00	0.0E+00	0.0E+00	8.0E-09
174 UCAR	557489.4	3777413.38	557489.4, 3777413.38	0.06476	0.06174	6.495E-05	5.332E-09	6.5E-05	2.2E-08	6.8E-08	3.9E-08	3.6E-08	1.6E-08	7.5E-10	6.8E-09	0.0E+00	0.0E+00	0.0E+00	7.6E-09
175 UCAR	556509.4	3777433.38	556509.4, 3777433.38	0.44115	0.57145	0.0004424	4.935E-08	0.00044	1.5E-07	4.6E-07	2.7E-07	2.4E-07	1.1E-07	5.1E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	5.1E-08
176 UCAR	556529.4	3777433.38	556529.4, 3777433.38	0.45998	0.60217	0.0004613	5.201E-08	0.00046	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.2E-07	5.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.4E-08
177 UCAR	556549.4	3777433.38	556549.4, 3777433.38	0.47824	0.63323	0.0004796	5.469E-08	0.00048	1.7E-07	5.0E-07	2.9E-07	2.6E-07	1.2E-07	5.5E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
178 UCAR	556569.4	3777433.38	556569.4, 3777433.38	0.49586	0.66472	0.0004973	5.741E-08	0.0005	1.7E-07	5.2E-07	3.0E-07	2.7E-07	1.2E-07	5.7E-09	5.2E-08	0.0E+00	0.0E+00	0.0E+00	5.8E-08
179 UCAR	556589.4	3777433.38	556589.4, 3777433.38	0.51245	0.69633	0.0005139	6.014E-08	0.00051	1.8E-07	5.4E-07	3.1E-07	2.8E-07	1.3E-07	5.9E-09	5.4E-08	0.0E+00	0.0E+00	0.0E+00	6.0E-08
180 UCAR	556609.4	3777433.38	556609.4, 3777433.38	0.52798	0.72845	0.0005295	6.291E-08	0.00053	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	6.1E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	6.2E-08
181 UCAR	556629.4	3777433.38	556629.4, 3777433.38	0.54183	0.76079	0.0005434	6.57E-08	0.00054	1.9E-07	5.7E-07	3.3E-07	3.0E-07	1.4E-07	6.3E-09	5.7E-08	0.0E+00	0.0E+00	0.0E+00	6.3E-08
182 UCAR	556649.4	3777433.38	556649.4, 3777433.38	0.55333	0.79306	0.0005549	6.849E-08	0.00056	1.9E-07	5.8E-07	3.4E-07	3.0E-07	1.4E-07	6.4E-09	5.8E-08	0.0E+00	0.0E+00	0.0E+00	6.5E-08
183 UCAR	556669.4	3777433.38	556669.4, 3777433.38	0.56182	0.82461	0.0005635	7.122E-08	0.00056	2.0E-07	5.9E-07	3.4E-07	3.1E-07	1.4E-07	6.5E-09	5.9E-08	0.0E+00	0.0E+00	0.0E+00	6.6E-08
184 UCAR	556689.4	3777433.38	556689.4, 3777433.38	0.56702	0.85425	0.0005687	7.378E-08	0.00057	2.0E-07	5.9E-07	3.4E-07	3.1E-07	1.4E-07	6.6E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.6E-08
185 UCAR	556709.4	3777433.38	556709.4, 3777433.38	0.56991	0.88203	0.0005716	7.618E-08	0.00057	2.0E-07	6.0E-07	3.5E-07	3.1E-07	1.4E-07	6.6E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.6E-08
186 UCAR	556729.4

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose					Risk by Age Group					
	X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
193 UCAR	556869.4	3777433.38	556869.4, 3777433.38	0.55757	0.88667	0.0005592	7.658E-08	0.00056	1.9E-07	5.8E-07	3.4E-07	3.1E-07	1.4E-07	6.5E-09	5.9E-08	0.0E+00	0.0E+00	0.0E+00	6.5E-08
194 UCAR	556889.4	3777433.38	556889.4, 3777433.38	0.53895	0.84909	0.0005405	7.333E-08	0.00054	1.9E-07	5.7E-07	3.3E-07	3.0E-07	1.4E-07	6.2E-09	5.7E-08	0.0E+00	0.0E+00	0.0E+00	6.3E-08
195 UCAR	556909.4	3777433.38	556909.4, 3777433.38	0.51478	0.80334	0.0005163	6.938E-08	0.00052	1.8E-07	5.4E-07	3.1E-07	2.8E-07	1.3E-07	6.0E-09	5.4E-08	0.0E+00	0.0E+00	0.0E+00	6.0E-08
196 UCAR	556929.4	3777433.38	556929.4, 3777433.38	0.48635	0.7497	0.0004878	6.475E-08	0.00049	1.7E-07	5.1E-07	3.0E-07	2.7E-07	1.2E-07	5.6E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
197 UCAR	556949.4	3777433.38	556949.4, 3777433.38	0.45516	0.68933	0.0004565	5.953E-08	0.00046	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.1E-07	5.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
198 UCAR	556969.4	3777433.38	556969.4, 3777433.38	0.42269	0.62497	0.0004239	5.397E-08	0.00042	1.5E-07	4.4E-07	2.6E-07	2.3E-07	1.1E-07	4.9E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
199 UCAR	556989.4	3777433.38	556989.4, 3777433.38	0.39031	0.5602	0.0003915	4.838E-08	0.00039	1.4E-07	4.1E-07	2.4E-07	2.1E-07	9.8E-08	4.5E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
200 UCAR	557009.4	3777433.38	557009.4, 3777433.38	0.35918	0.49844	0.0003602	4.305E-08	0.00036	1.2E-07	3.8E-07	2.2E-07	2.0E-07	9.0E-08	4.2E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
201 UCAR	557029.4	3777433.38	557029.4, 3777433.38	0.32998	0.4418	0.0003309	3.816E-08	0.00033	1.1E-07	3.5E-07	2.0E-07	1.8E-07	8.3E-08	3.8E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
202 UCAR	557049.4	3777433.38	557049.4, 3777433.38	0.30312	0.39134	0.000304	3.38E-08	0.0003	1.1E-07	3.2E-07	1.8E-07	1.7E-07	7.6E-08	3.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
203 UCAR	557069.4	3777433.38	557069.4, 3777433.38	0.27864	0.34716	0.0002795	2.998E-08	0.00028	9.7E-08	2.9E-07	1.7E-07	1.5E-07	7.0E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
204 UCAR	557089.4	3777433.38	557089.4, 3777433.38	0.25642	0.30882	0.0002572	2.667E-08	0.00026	8.9E-08	2.7E-07	1.6E-07	1.4E-07	6.4E-08	3.0E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
205 UCAR	557109.4	3777433.38	557109.4, 3777433.38	0.23622	0.27569	0.0002369	2.381E-08	0.00024	8.2E-08	2.5E-07	1.4E-07	1.3E-07	5.9E-08	2.7E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
206 UCAR	557129.4	3777433.38	557129.4, 3777433.38	0.2178	0.24706	0.0002184	2.134E-08	0.00022	7.6E-08	2.3E-07	1.3E-07	1.2E-07	5.5E-08	2.5E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
207 UCAR	557149.4	3777433.38	557149.4, 3777433.38	0.20099	0.22231	0.0002016	1.92E-08	0.0002	7.0E-08	2.1E-07	1.2E-07	1.1E-07	5.0E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
208 UCAR	557169.4	3777433.38	557169.4, 3777433.38	0.18558	0.20083	0.0001861	1.734E-08	0.00019	6.4E-08	1.9E-07	1.1E-07	1.0E-07	4.7E-08	2.2E-09	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
209 UCAR	557189.4	3777433.38	557189.4, 3777433.38	0.17151	0.18215	0.000172	1.573E-08	0.00017	6.0E-08	1.8E-07	1.0E-07	9.4E-08	4.3E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
210 UCAR	557209.4	3777433.38	557209.4, 3777433.38	0.15866	0.16584	0.0001591	1.432E-08	0.00016	5.5E-08	1.7E-07	9.6E-08	8.7E-08	4.0E-08	1.8E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
211 UCAR	557229.4	3777433.38	557229.4, 3777433.38	0.14693	0.15152	0.0001474	1.309E-08	0.00015	5.1E-08	1.5E-07	8.9E-08	8.1E-08	3.7E-08	1.7E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
212 UCAR	557249.4	3777433.38	557249.4, 3777433.38	0.13628	0.13893	0.0001367	1.2E-08	0.00014	4.7E-08	1.4E-07	8.3E-08	7.5E-08	3.4E-08	1.6E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
213 UCAR	557269.4	3777433.38	557269.4, 3777433.38	0.12659	0.1278	0.000127	1.104E-08	0.00013	4.4E-08	1.3E-07	7.7E-08	7.0E-08	3.2E-08	1.5E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
214 UCAR	557289.4	3777433.38	557289.4, 3777433.38	0.11778	0.11792	0.0001181	1.018E-08	0.00012	4.1E-08	1.2E-07	7.1E-08	6.5E-08	3.0E-08	1.4E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
215 UCAR	557309.4	3777433.38	557309.4, 3777433.38	0.1098	0.10915	0.0001101	9.427E-09	0.00011	3.8E-08	1.2E-07	6.7E-08	6.0E-08	2.8E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
216 UCAR	557329.4	3777433.38	557329.4, 3777433.38	0.10253	0.10129	0.0001028	8.748E-09	0.0001	3.6E-08	1.1E-07	6.2E-08	5.6E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
217 UCAR	557349.4	3777433.38	557349.4, 3777433.38	0.09591	0.09424	9.619E-05	8.139E-09	9.6E-05	3.3E-08	1.0E-07	5.8E-08	5.3E-08	2.4E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08
218 UCAR	557369.4	3777433.38	557369.4, 3777433.38	0.08991	0.08792	9.017E-05	7.593E-09	9E-05	3.1E-08	9.4E-08	5.5E-08	4.9E-08	2.3E-08	1.0E-09	9.4E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
219 UCAR	557389.4	3777433.38	557389.4, 3777433.38	0.08446	0.08223	8.471E-05	7.102E-09	8.5E-05	2.9E-08	8.9E-08	5.1E-08	4.6E-08	2.1E-08	9.8E-10	8.9E-09	0.0E+00	0.0E+00	0.0E+00	9.8E-09
220 UCAR	557409.4	3777433.38	557409.4, 3777433.38	0.07946	0.07708	7.969E-05	6.657E-09	8E-05	2.8E-08	8.3E-08	4.8E-08	4.4E-08	2.0E-08	9.2E-10	8.3E-09	0.0E+00	0.0E+00	0.0E+00	9.3E-09
221 UCAR	557429.4	3777433.38	557429.4, 3777433.38	0.07486	0.07238	7.508E-05	6.251E-09	7.5E-05	2.6E-08	7.8E-08	4.5E-08	4.1E-08	1.9E-08	8.7E-10	7.9E-09	0.0E+00	0.0E+00	0.0E+00	8.7E-09
222 UCAR	557449.4	3777433.38	557449.4, 3777433.38	0.07066	0.06813	7.087E-05	5.884E-09	7.1E-05	2.5E-08	7.4E-08	4.3E-08	3.9E-08	1.8E-08	8.2E-10	7.4E-09	0.0E+00	0.0E+00	0.0E+00	8.2E-09
223 UCAR	557469.4	3777433.38	557469.4, 3777433.38	0.06681	0.06425	6.701E-05	5.549E-09	6.7E-05	2.3E-08	7.0E-08	4.1E-08	3.7E-08	1.7E-08	7.7E-10	7.0E-09	0.0E+00	0.0E+00	0.0E+00	7.8E-09
224 UCAR	557489.4	3777433.38	557489.4, 3777433.38	0.06326	0.0607	6.344E-05	5.242E-09	6.3E-05	2.2E-08	6.6E-08	3.8E-08	3.5E-08	1.6E-08	7.3E-10	6.6E-09	0.0E+00	0.0E+00	0.0E+00	7.4E-09
225 UCAR	556509.4	3777453.38	556509.4, 3777453.38	0.39283	0.51036	0.000394	4.408E-08	0.00039	1.4E-07	4.1E-07	2.4E-07	2.2E-07	9.9E-08	4.6E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
226 UCAR	556529.4	3777453.38	556529.4, 3777453.38	0.40685	0.5347	0.000408	4.618E-08	0.00041	1.4E-07	4.3E-07	2.5E-07	2.2E-07	1.0E-07	4.7E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
227 UCAR	556549.4	3777453.38	556549.4, 3777453.38	0.42033	0.5591	0.0004216	4.829E-08	0.00042	1.5E-07	4.4E-07	2.6E-07	2.3E-07	1.1E-07	4.9E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
228 UCAR	556569.4	3777453.38	556569.4, 3777453.38	0.43336	0.58371	0.0004346	5.041E-08	0.00043	1.5E-07	4.5E-07	2.6E-07	2.4E-07	1.1E-07	5.0E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	5.1E-08
229 UCAR	556589.4	3777453.38	556589.4, 3777453.38	0.44552	0.60826	0.0004468	5.253E-08	0.00045	1.5E-07	4.7E-07	2.7E-07	2.5E-07	1.1E-07	5.2E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
230 UCAR	556609.4	3777453.38	556609.4, 3777453.38	0.45662	0.63285	0.000458	5.466E-08	0.00046	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.1E-07	5.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
231 UCAR	556629.4	3777453.38	556629.4, 3777453.38	0.46593	0.65693	0.0004673	5.674E-08	0.00047	1.6E-07	4.9E-07	2.8E-07	2.6E-07	1.2E-07	5.4E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.4E-08
232 UCAR	556649.4	3777453.38	556649.4, 3777453.38	0.47321	0.68051	0.0004746	5.877E-08	0.00047	1.6E-07	5.0E-07	2.9E-07	2.6E-07	1.2E-07	5.5E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.5E-08
233 UCAR	556669.4	3777453.38	556669.4, 3777453.38	0.47815	0.70294	0.0004795	6.071E-08	0.00048	1.7E-07	5.0E-07	2.9E-07	2.6E-07	1.2E-07	5.5E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
234 UCAR	556689.4	3777453.38	556689.4, 3777453.38	0.48088	0.72334	0.0004823	6.247E-08	0.00048	1.7E-07	5.0E-07	2.9E-07	2.6E-07	1.2E-07	5.6E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
235 UCAR	556709.4	3777453.38	556709.4, 3777453.38	0.48232	0.74135	0.0004837	6.403E-08	0.00048	1.7E-07	5.1E-07	2.9E-07	2.7E-07	1.2E-07	5.6E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
236 UCAR	556729.4	3777453.38	556729.4, 3777453.38	0.48318	0.75551	0.0004846	6.525E-08	0.00048	1.7E-07	5.1E-07	2.9E-07	2.7E-07	1.2E-07	5.6E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
237 UCAR	556749.4	3777453.38	556749.4, 3777453.38	0.48445	0.76578	0.0004859	6.614E-08	0.00049	1.7E-07	5.1E-07	2.9E-07	2.7E-07	1.2E-07	5.6E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
238 UCAR	556769.4	3777453.38	556769.4, 3777453.38	0.48626	0.77126	0.0004877	6.661E-08	0.00049	1.7E-07	5.1E-07	3.0E-07	2.7E-07	1.2E-07	5.6E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
239 UCAR	556789.4	3777453.38	556789.4, 3777453.38	0.4882	0.77117	0.0004896	6.66E-08	0.00049	1.7E-07	5.1E-07	3.0E-07	2.7E-07	1.2E-07	5.7E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
240 UCAR	556809.4	3777453.38	556809.4, 3777453.38	0.4892	0.76502	0.0004906	6.607E-08	0.00049	1.7E-07	5.1E-07	3.0E-07	2.7E-07	1.2E-07	5.7E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
241 UCAR	556829.4	3777453.38	556829.4, 3777453.38	0.48789	0.75254	0.0004893	6.499E-08	0.00049	1.7E-07	5.1E-07	3.0E-07	2.7E-07	1.2E-07	5.7E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
242 UCAR	556849.4	3777453.38	556849.4, 3777453.38	0.48318	0.73473	0.0004846	6.345E-08	0.00048	1.7E-07	5.1E-07	2.9E-07	2.7E-07	1.2E-07	5.6E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.6E-08
243 UCAR	556869.4	3777453.38	556869.4, 3777453.38	0.47395	0.71134	0.0004753	6.143E-08	0.00048	1.6E-07	5.0E-07	2.9E-07	2.6E-07	1.2E-07	5.5E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.5E-08
244 UCAR	556889.4	3777453.38	556889.4, 3777453.38	0.46014	0.68326	0.0004615	5.901E-08	0.00046	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.2E-07	5.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.4E-08
245 UCAR	556909.4	3777453.38	556909.4, 3777453.38	0.44204	0.64985	0.0004433	5.612E-08	0.00044	1.5E-07	4.6E-07	2.7E-07	2.4E-07	1.1E-07	5.1E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
246 UCAR	556929.4	3777453.38	556929.4, 3777453.38	0.42053	0.61146	0.0004218	5.281E-08	0.00042	1.5E-07	4.4E-07	2.6E-07	2.3E-07	1.1E-07	4.9E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
247 UCAR	556949.4	3777453.38	556949.4, 3777453.38	0.3966	0.56855	0.0003978	4.91E-08	0.0004	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.6E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
248 UCAR	556969.4	3777453.38	556969.4, 3777453.38	0.37128	0.52267	0.0003724	4.514E-08	0.00037	1.3E-07	3.9E-07	2.3E-07	2.0E-07	9.3E-08	4.3E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
249 UCAR	556989.4	3777453.38	556989.4, 3777453.38	0.34554	0.47583	0.0003466	4.109E-08	0.00035	1.2E-07	3.6E-07	2.1E-07	1.9E-07	8.7E-08	4.0E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
250 UCAR	557009.4	3777453.38	557009.4, 3777453.38	0.32029	0.43012	0.0003212	3.715E-08	0.00032	1.1E-07	3.4E-07	1.9E-07	1.8E-07	8.0E-08	3.7E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
251 UCAR	557029.4	3777453.38	557029.4, 3777453.38	0.29624	0.38712	0.0002971	3.343E-08	0.0003	1.0E-07	3.1E-07	1.8E-07	1.6E-07	7.4E-08	3.4E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
252 UCAR	557049.4	3777453.38	557049.4, 3777453.38	0.2738	0.34774	0.0002746	3.003E-08	0.00027	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
253 UCAR	557069.4	3777453.38	557069.4, 3777453.38	0.25317	0.31236	0.0002539	2.698E-08	0.00025	8.8E-08	2.7E-07	1.5E-07	1.4E-07	6.4E-08	2.9E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
254 UCAR	557089.4	3777453.38	557089.4, 3777453.38	0.2343	0.28093	0.000235	2.426E-08	0.00024	8.1E-08	2.5E-07	1.4E-07	1.3E-07	5.9E-08	2.7E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
255 UCAR	557109.4	3777453.38	557109.4, 3777453.38	0.21707	0.2532	0.0002177	2.187E-08	0.00022	7.5E-08	2.3E-07	1.3E-07	1.2E-07	5.4E-08	2.5E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
256 UCAR	557129.4	3777453.38	557129.4, 3777453.38	0.20129	0.22882	0.0002019	1.976E-08	0.0002	7.0E-08	2.1E-07	1.2E-07	1.1E-07	5.1E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
257 UCAR	557149.4	3777453.38	557149.4, 3777453.38	0.18681	0.2074	0.0001874	1.791E-08	0.00019	6.5E-08	2.0E-07	1.1E-07	1.0E-07	4.7E-08	2.2E-09	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
258 UCAR	557169.4	3777453.38	557169.4, 3777453.38	0.17343	0.18855	0.0001739	1.628E-08	0.00017	6.0E-08	1.8E-07	1.1E-07	9.5E-08	4.4E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
259 UCAR	557189.4	3777453.38	557189.4, 3777453.38	0.16112	0.17197	0.0001616	1.485E-08	0.00016	5.6E-08	1.7E-07	9.8E-08	8.9E-08	4.0E-08	1.9E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
260 UCAR	557209.4	3777453.38	557209.4, 3777453.38	0.14978	0.15735	0.0001502	1.359E-08	0.00015	5.2E-08	1.6E-07	9.1E-08	8.2E-08	3.8E-08	1.7E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
261 UCAR	557229.4	3777453.38	557229.4, 3777453.38	0.13931	0.1444	0.0001397	1.247E-08	0.00014	4.8E-08	1.5E-07	8.5E-08	7.7E-08	3.5E-08	1.6E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
262 UCAR	557249.4	3777453.38	557249.4, 3777453.38	0.12972	0.13292	0.0001301	1.148E-08	0.00013	4.5E-08	1.4E-07	7.9E-08	7.1E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
263 UCAR	557269.4	3777453.38	557269.4, 3777453.38	0.12091	0.1227	0.0001213	1.06E-08	0.00012	4.2E-08	1.3E-07	7.3E-08	6.7E-08	3.0E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
264 UCAR	557289.4	3777453.38	557289.4, 3777453.38	0.11285	0.11357	0.0001132	9.808E-09	0.00011	3.9E-08	1.2E-07	6.8E-08	6.2E-08	2.8E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
265 UCAR	557309.4	3777453.38	557309.4, 3777453.38	0.10549	0.10541	0.0001058	9.104E-09	0.00011	3.7E-08	1.1E-07	6.4E-08	5.8E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
266 UCAR	557329.4	3777453.38	557329.4, 3777453.38	0.09875	0.09807	9.904E-05	8.47E-09	9.9E-05	3.4E-08	1.0E-07	6.0E-08	5.4E-08	2.5E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
267 UCAR	557349.4	3777453.38	557349.4, 3777453.38	0.09259	0.09147	9.286E-05	7.9E-09	9.3E-05	3.2E-08	9.7E-08	5.6E-08	5.1E-08	2.3E-08	1.1E-09	9.7E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
268 UCAR	557369.4	3777453.38	557369.4, 3777453.38	0.08695	0.0855	8.72E-05	7.384E-09	8.7E-05	3.0E-08	9.1E-08	5.3E-08	4.8E-08	2.2E-08	1.0E-09	9.1E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
269 UCAR	557389.4	3777453.38	557389.4, 3777453.38	0.0818	0.0801	8.204E-05	6.918E-09	8.2E-05	2.8E-08	8.6E-08	5.0E-08	4.5E-08	2.1E-08	9.5E-10	8.6E-09	0.0E+00	0.0E+00	0.0E+00	9.5E-09
270 UCAR	557409.4	3777453.38	557409.4, 3777453.38	0.0771	0.07523	7.733E-05	6.497E-09	7.7E-05	2.7E-08	8.1E-08	4.7E-08	4.2E-08	1.9E-08	8.9E-10	8.1E-09	0.0E+00	0.0E+00	0.0E+00	9.0E-09
271 UCAR	557429.4	3777453.38	557429.4, 3777453.38	0.07277	0.07077	7.298E-05	6.112E-09	7.3E-05	2.5E-08	7.6E-08	4.4E-08	4.0E-08	1.8E-08	8.4E-10	7.6E-09	0.0E+00	0.0E+00	0.0E+00	8.5E-09
272 UCAR	557449.4	3777453.38	557449.4, 3777453.38	0.06879	0.06671	6.899E-05	5.761E-09	6.9E-05	2.4E-08	7.2E-08	4.2E-08	3.8E-08	1.7E-08	8.0E-10	7.2E-09	0.0E+00	0.0E+00	0.0E+00	8.0E-09
273 UCAR	557469.4	3777453.38	557469.4, 3777453.38	0.06512	0.06299	6.531E-05	5.44E-09	6.5E-05	2.3E-08	6.8E-08	4.0E-08	3.6E-08	1.6E-08	7.6E-10	6.8E-09	0.0E+00	0.0E+00	0.0E+00	7.6E-09
274 UCAR	557489.4	3777453.38	557489.4, 3777453.38	0.06174	0.05958	6.192E-05	5.146E-09	6.2E-05	2.1E-08	6.5E-08	3.7E-08	3.4E-08	1.5E-08	7.2E-10	6.5E-09	0.0E+00	0.0E+00	0.0E+00	7.2E-09
275 UCAR	556509.4	3777473.38	556509.4, 3777473.38	0.3499	0.45653	0.0003509	3.943E-08	0.00035	1.2E-07	3.7E-07	2.1E-07	1.9E-07	8.8E-08	4.1E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
276 UCAR	556529.4	3777473.38	556529.4, 3777473.38	0.36061	0.47593	0.0003617	4.11E-08	0.00036	1.3E-07	3.8E-07	2.2E-07	2.0E-07	9.1E-08	4.2E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
277 UCAR	556549.4	3777473.38	556549.4, 3777473.38	0.37087	0.49516	0.000372	4.276E-08	0.00037	1.3E-07	3.9E-07	2.3E-07	2.0E-07	9.3E-08	4.3E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
278 UCAR	556569.4	3777473.38	556569.4, 3777473.38	0.38052	0.51414	0.0003816	4.44E-08	0.00038	1.3E-07	4.0E-07	2.3E-07	2.1E-07	9.6E-08	4.4E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
279 UCAR	556589.4	3777473.38	556589.4, 3777473.38	0.38955	0.53311	0.0003907	4.604E-08	0.00039	1.4E-07	4.1E-07	2.4E-07	2.1E-07	9.8E-08	4.5E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
280 UCAR	556609.4	3777473.38	556609.4, 3777473.38	0.39741	0.5517	0.0003986	4.765E-08	0.0004	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.6E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
281 UCAR	556629.4	3777473.38	556629.4, 3777473.38	0.40365	0.56962	0.0004048	4.919E-08	0.0004	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.7E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
282 UCA

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose					Risk by Age Group					
	X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
289 UCAR	556789.4	3777473.38	556789.4, 3777473.38	0.4181	0.63711	0.0004193	5.502E-08	0.00042	1.5E-07	4.4E-07	2.5E-07	2.3E-07	1.0E-07	4.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
290 UCAR	556809.4	3777473.38	556809.4, 3777473.38	0.41893	0.62964	0.0004202	5.438E-08	0.00042	1.5E-07	4.4E-07	2.5E-07	2.3E-07	1.1E-07	4.9E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
291 UCAR	556829.4	3777473.38	556829.4, 3777473.38	0.41799	0.61817	0.0004192	5.339E-08	0.00042	1.5E-07	4.4E-07	2.5E-07	2.3E-07	1.0E-07	4.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
292 UCAR	556849.4	3777473.38	556849.4, 3777473.38	0.41435	0.60308	0.0004156	5.208E-08	0.00042	1.4E-07	4.3E-07	2.5E-07	2.3E-07	1.0E-07	4.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
293 UCAR	556869.4	3777473.38	556869.4, 3777473.38	0.40737	0.58464	0.0004086	5.049E-08	0.00041	1.4E-07	4.3E-07	2.5E-07	2.2E-07	1.0E-07	4.7E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
294 UCAR	556889.4	3777473.38	556889.4, 3777473.38	0.39689	0.56315	0.0003981	4.864E-08	0.0004	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.6E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
295 UCAR	556909.4	3777473.38	556909.4, 3777473.38	0.38309	0.53801	0.0003842	4.646E-08	0.00038	1.3E-07	4.0E-07	2.3E-07	2.1E-07	9.6E-08	4.4E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
296 UCAR	556929.4	3777473.38	556929.4, 3777473.38	0.36657	0.50948	0.0003676	4.4E-08	0.00037	1.3E-07	3.8E-07	2.2E-07	2.0E-07	9.2E-08	4.3E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
297 UCAR	556949.4	3777473.38	556949.4, 3777473.38	0.348	0.47784	0.000349	4.127E-08	0.00035	1.2E-07	3.6E-07	2.1E-07	1.9E-07	8.7E-08	4.0E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
298 UCAR	556969.4	3777473.38	556969.4, 3777473.38	0.32808	0.44396	0.000329	3.834E-08	0.00033	1.1E-07	3.4E-07	2.0E-07	1.8E-07	8.2E-08	3.8E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
299 UCAR	556989.4	3777473.38	556989.4, 3777473.38	0.3075	0.40906	0.0003084	3.533E-08	0.00031	1.1E-07	3.2E-07	1.9E-07	1.7E-07	7.7E-08	3.6E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
300 UCAR	557009.4	3777473.38	557009.4, 3777473.38	0.28695	0.37443	0.0002878	3.234E-08	0.00029	1.0E-07	3.0E-07	1.7E-07	1.6E-07	7.2E-08	3.3E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
301 UCAR	557029.4	3777473.38	557029.4, 3777473.38	0.26701	0.34119	0.0002678	2.947E-08	0.00027	9.3E-08	2.8E-07	1.6E-07	1.5E-07	6.7E-08	3.1E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
302 UCAR	557049.4	3777473.38	557049.4, 3777473.38	0.24813	0.31009	0.0002489	2.678E-08	0.00025	8.6E-08	2.6E-07	1.5E-07	1.4E-07	6.2E-08	2.9E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
303 UCAR	557069.4	3777473.38	557069.4, 3777473.38	0.23059	0.28156	0.0002313	2.432E-08	0.00023	8.0E-08	2.4E-07	1.4E-07	1.3E-07	5.8E-08	2.7E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
304 UCAR	557089.4	3777473.38	557089.4, 3777473.38	0.21444	0.2557	0.0002151	2.208E-08	0.00022	7.4E-08	2.2E-07	1.3E-07	1.2E-07	5.4E-08	2.5E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
305 UCAR	557109.4	3777473.38	557109.4, 3777473.38	0.19963	0.23248	0.0002002	2.008E-08	0.0002	6.9E-08	2.1E-07	1.2E-07	1.1E-07	5.0E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
306 UCAR	557129.4	3777473.38	557129.4, 3777473.38	0.18602	0.21171	0.0001866	1.828E-08	0.00019	6.5E-08	2.0E-07	1.1E-07	1.0E-07	4.7E-08	2.2E-09	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
307 UCAR	557149.4	3777473.38	557149.4, 3777473.38	0.1735	0.19322	0.000174	1.669E-08	0.00017	6.0E-08	1.8E-07	1.1E-07	9.5E-08	4.4E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
308 UCAR	557169.4	3777473.38	557169.4, 3777473.38	0.1619	0.17673	0.0001624	1.526E-08	0.00016	5.6E-08	1.7E-07	9.8E-08	8.9E-08	4.1E-08	1.9E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
309 UCAR	557189.4	3777473.38	557189.4, 3777473.38	0.15115	0.16207	0.0001516	1.4E-08	0.00015	5.2E-08	1.6E-07	9.2E-08	8.3E-08	3.8E-08	1.8E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
310 UCAR	557209.4	3777473.38	557209.4, 3777473.38	0.14117	0.149	0.0001416	1.287E-08	0.00014	4.9E-08	1.5E-07	8.6E-08	7.8E-08	3.5E-08	1.6E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
311 UCAR	557229.4	3777473.38	557229.4, 3777473.38	0.1319	0.13733	0.0001323	1.186E-08	0.00013	4.6E-08	1.4E-07	8.0E-08	7.3E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
312 UCAR	557249.4	3777473.38	557249.4, 3777473.38	0.12331	0.12691	0.0001237	1.096E-08	0.00012	4.3E-08	1.3E-07	7.5E-08	6.8E-08	3.1E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
313 UCAR	557269.4	3777473.38	557269.4, 3777473.38	0.11535	0.11755	0.0001157	1.015E-08	0.00012	4.0E-08	1.2E-07	7.0E-08	6.3E-08	2.9E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
314 UCAR	557289.4	3777473.38	557289.4, 3777473.38	0.10801	0.10915	0.0001083	9.427E-09	0.00011	3.8E-08	1.1E-07	6.6E-08	5.9E-08	2.7E-08	1.3E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
315 UCAR	557309.4	3777473.38	557309.4, 3777473.38	0.10124	0.10159	0.0001015	8.774E-09	0.0001	3.5E-08	1.1E-07	6.1E-08	5.6E-08	2.5E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
316 UCAR	557329.4	3777473.38	557329.4, 3777473.38	0.09502	0.09477	9.53E-05	8.185E-09	9.5E-05	3.3E-08	1.0E-07	5.8E-08	5.2E-08	2.4E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08
317 UCAR	557349.4	3777473.38	557349.4, 3777473.38	0.0893	0.0886	8.956E-05	7.652E-09	9E-05	3.1E-08	9.4E-08	5.4E-08	4.9E-08	2.2E-08	1.0E-09	9.4E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
318 UCAR	557369.4	3777473.38	557369.4, 3777473.38	0.08404	0.083	8.429E-05	7.168E-09	8.4E-05	2.9E-08	8.8E-08	5.1E-08	4.6E-08	2.1E-08	9.7E-10	8.8E-09	0.0E+00	0.0E+00	0.0E+00	9.8E-09
319 UCAR	557389.4	3777473.38	557389.4, 3777473.38	0.0792	0.07791	7.943E-05	6.729E-09	7.9E-05	2.7E-08	8.3E-08	4.8E-08	4.4E-08	2.0E-08	9.2E-10	8.3E-09	0.0E+00	0.0E+00	0.0E+00	9.2E-09
320 UCAR	557409.4	3777473.38	557409.4, 3777473.38	0.07476	0.07329	7.498E-05	6.33E-09	7.5E-05	2.6E-08	7.8E-08	4.5E-08	4.1E-08	1.9E-08	8.7E-10	7.9E-09	0.0E+00	0.0E+00	0.0E+00	8.7E-09
321 UCAR	557429.4	3777473.38	557429.4, 3777473.38	0.07067	0.06905	7.088E-05	5.963E-09	7.1E-05	2.5E-08	7.4E-08	4.3E-08	3.9E-08	1.8E-08	8.2E-10	7.4E-09	0.0E+00	0.0E+00	0.0E+00	8.2E-09
322 UCAR	557449.4	3777473.38	557449.4, 3777473.38	0.06691	0.0652	6.711E-05	5.631E-09	6.7E-05	2.3E-08	7.0E-08	4.1E-08	3.7E-08	1.7E-08	7.8E-10	7.0E-09	0.0E+00	0.0E+00	0.0E+00	7.8E-09
323 UCAR	557469.4	3777473.38	557469.4, 3777473.38	0.06344	0.06165	6.363E-05	5.324E-09	6.4E-05	2.2E-08	6.7E-08	3.9E-08	3.5E-08	1.6E-08	7.4E-10	6.7E-09	0.0E+00	0.0E+00	0.0E+00	7.4E-09
324 UCAR	557489.4	3777473.38	557489.4, 3777473.38	0.06022	0.05839	6.04E-05	5.043E-09	6E-05	2.1E-08	6.3E-08	3.7E-08	3.3E-08	1.5E-08	7.0E-10	6.3E-09	0.0E+00	0.0E+00	0.0E+00	7.0E-09
325 UCAR	556509.4	3777493.38	556509.4, 3777493.38	0.31229	0.40905	0.0003132	3.533E-08	0.00031	1.1E-07	3.3E-07	1.9E-07	1.7E-07	7.8E-08	3.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
326 UCAR	556529.4	3777493.38	556529.4, 3777493.38	0.32049	0.42426	0.0003214	3.664E-08	0.00032	1.1E-07	3.4E-07	1.9E-07	1.8E-07	8.0E-08	3.7E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
327 UCAR	556549.4	3777493.38	556549.4, 3777493.38	0.32843	0.43937	0.0003294	3.795E-08	0.00033	1.1E-07	3.4E-07	2.0E-07	1.8E-07	8.2E-08	3.8E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
328 UCAR	556569.4	3777493.38	556569.4, 3777493.38	0.33597	0.4544	0.000337	3.924E-08	0.00034	1.2E-07	3.5E-07	2.0E-07	1.8E-07	8.4E-08	3.9E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
329 UCAR	556589.4	3777493.38	556589.4, 3777493.38	0.34258	0.46888	0.0003436	4.049E-08	0.00034	1.2E-07	3.6E-07	2.1E-07	1.9E-07	8.6E-08	4.0E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
330 UCAR	556609.4	3777493.38	556609.4, 3777493.38	0.34797	0.48271	0.000349	4.169E-08	0.00035	1.2E-07	3.6E-07	2.1E-07	1.9E-07	8.7E-08	4.0E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
331 UCAR	556629.4	3777493.38	556629.4, 3777493.38	0.35204	0.49592	0.0003531	4.283E-08	0.00035	1.2E-07	3.7E-07	2.1E-07	1.9E-07	8.8E-08	4.1E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
332 UCAR	556649.4	3777493.38	556649.4, 3777493.38	0.35463	0.50803	0.0003557	4.388E-08	0.00036	1.2E-07	3.7E-07	2.2E-07	2.0E-07	8.9E-08	4.1E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
333 UCAR	556669.4	3777493.38	556669.4, 3777493.38	0.35592	0.51855	0.000357	4.478E-08	0.00036	1.2E-07	3.7E-07	2.2E-07	2.0E-07	8.9E-08	4.1E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
334 UCAR	556689.4	3777493.38	556689.4, 3777493.38	0.35656	0.52747	0.0003576	4.555E-08	0.00036	1.2E-07	3.7E-07	2.2E-07	2.0E-07	9.0E-08	4.1E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
335 UCAR	556709.4	3777493.38	556709.4, 3777493.38	0.35699	0.53411	0.0003558	4.613E-08	0.00036	1.2E-07	3.7E-07	2.2E-07	2.0E-07	9.0E-08	4.1E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
336 UCAR	556729.4	3777493.38	556729.4, 3777493.38	0.35757	0.538	0.0003586	4.646E-08	0.00036	1.2E-07	3.7E-07	2.2E-07	2.0E-07	9.0E-08	4.1E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
337 UCAR	556749.4	3777493.38	556749.4, 3777493.38	0.35885	0.53968	0.0003599	4.661E-08	0.00036	1.2E-07	3.8E-07	2.2E-07	2.0E-07	9.0E-08	4.2E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
338 UCAR	556769.4	3777493.38	556769.4, 3777493.38	0.36031	0.53813	0.0003614	4.648E-08	0.00036	1.3E-07	3.8E-07	2.2E-07	2.0E-07	9.0E-08	4.2E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
339 UCAR	556789.4	3777493.38	556789.4, 3777493.38	0.36178	0.53391	0.0003628	4.611E-08	0.00036	1.3E-07	3.8E-07	2.2E-07	2.0E-07	9.1E-08	4.2E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
340 UCAR	556809.4	3777493.38	556809.4, 3777493.38	0.36252	0.52677	0.0003636	4.549E-08	0.00036	1.3E-07	3.8E-07	2.2E-07	2.0E-07	9.1E-08	4.2E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
341 UCAR	556829.4	3777493.38	556829.4, 3777493.38	0.36176	0.51674	0.0003628	4.463E-08	0.00036	1.3E-07	3.8E-07	2.2E-07	2.0E-07	9.1E-08	4.2E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
342 UCAR	556849.4	3777493.38	556849.4, 3777493.38	0.35897	0.50445	0.00036	4.357E-08	0.00036	1.2E-07	3.8E-07	2.2E-07	2.0E-07	9.0E-08	4.2E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
343 UCAR	556869.4	3777493.38	556869.4, 3777493.38	0.35357	0.48979	0.0003546	4.23E-08	0.00035	1.2E-07	3.7E-07	2.1E-07	1.9E-07	8.9E-08	4.1E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
344 UCAR	556889.4	3777493.38	556889.4, 3777493.38	0.34546	0.47294	0.0003465	4.084E-08	0.00035	1.2E-07	3.6E-07	2.1E-07	1.9E-07	8.7E-08	4.0E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
345 UCAR	556909.4	3777493.38	556909.4, 3777493.38	0.33476	0.45357	0.0003357	3.917E-08	0.00034	1.2E-07	3.5E-07	2.0E-07	1.8E-07	8.4E-08	3.9E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
346 UCAR	556929.4	3777493.38	556929.4, 3777493.38	0.32189	0.43179	0.0003228	3.729E-08	0.00032	1.1E-07	3.4E-07	2.0E-07	1.8E-07	8.1E-08	3.7E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
347 UCAR	556949.4	3777493.38	556949.4, 3777493.38	0.30732	0.40775	0.0003082	3.521E-08	0.00031	1.1E-07	3.2E-07	1.9E-07	1.7E-07	7.7E-08	3.6E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
348 UCAR	556969.4	3777493.38	556969.4, 3777493.38	0.2915	0.38202	0.0002924	3.299E-08	0.00029	1.0E-07	3.1E-07	1.8E-07	1.6E-07	7.3E-08	3.4E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
349 UCAR	556989.4	3777493.38	556989.4, 3777493.38	0.27495	0.35533	0.0002758	3.069E-08	0.00028	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
350 UCAR	557009.4	3777493.38	557009.4, 3777493.38	0.25814	0.32856	0.0002589	2.838E-08	0.00026	9.0E-08	2.7E-07	1.6E-07	1.4E-07	6.5E-08	3.0E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
351 UCAR	557029.4	3777493.38	557029.4, 3777493.38	0.24156	0.30246	0.0002423	2.612E-08	0.00024	8.4E-08	2.5E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
352 UCAR	557049.4	3777493.38	557049.4, 3777493.38	0.22562	0.27761	0.0002263	2.398E-08	0.00023	7.8E-08	2.4E-07	1.4E-07	1.2E-07	5.7E-08	2.6E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
353 UCAR	557069.4	3777493.38	557069.4, 3777493.38	0.21061	0.25442	0.0002112	2.197E-08	0.00021	7.3E-08	2.2E-07	1.3E-07	1.2E-07	5.3E-08	2.4E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
354 UCAR	557089.4	3777493.38	557089.4, 3777493.38	0.19667	0.23304	0.0001972	2.013E-08	0.0002	6.8E-08	2.1E-07	1.2E-07	1.1E-07	4.9E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
355 UCAR	557109.4	3777493.38	557109.4, 3777493.38	0.18384	0.21354	0.0001844	1.844E-08	0.00018	6.4E-08	1.9E-07	1.1E-07	1.0E-07	4.6E-08	2.1E-09	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
356 UCAR	557129.4	3777493.38	557129.4, 3777493.38	0.17203	0.19585	0.0001725	1.691E-08	0.00017	6.0E-08	1.8E-07	1.0E-07	9.5E-08	4.3E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
357 UCAR	557149.4	3777493.38	557149.4, 3777493.38	0.16114	0.17988	0.0001616	1.554E-08	0.00016	5.6E-08	1.7E-07	9.8E-08	8.9E-08	4.0E-08	1.9E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
358 UCAR	557169.4	3777493.38	557169.4, 3777493.38	0.15104	0.1655	0.0001515	1.429E-08	0.00015	5.2E-08	1.6E-07	9.2E-08	8.3E-08	3.8E-08	1.8E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
359 UCAR	557189.4	3777493.38	557189.4, 3777493.38	0.14164	0.15254	0.0001421	1.317E-08	0.00014	4.9E-08	1.5E-07	8.6E-08	7.8E-08	3.6E-08	1.6E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
360 UCAR	557209.4	3777493.38	557209.4, 3777493.38	0.13289	0.1409	0.0001333	1.217E-08	0.00013	4.6E-08	1.4E-07	8.1E-08	7.3E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
361 UCAR	557229.4	3777493.38	557229.4, 3777493.38	0.1247	0.13041	0.0001251	1.126E-08	0.00013	4.3E-08	1.3E-07	7.6E-08	6.9E-08	3.1E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
362 UCAR	557249.4	3777493.38	557249.4, 3777493.38	0.11705	0.12096	0.0001174	1.045E-08	0.00012	4.1E-08	1.2E-07	7.1E-08	6.4E-08	2.9E-08	1.4E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
363 UCAR	557269.4	3777493.38	557269.4, 3777493.38	0.10991	0.11244	0.0001102	9.711E-09	0.00011	3.8E-08	1.2E-07	6.7E-08	6.0E-08	2.8E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
364 UCAR	557289.4	3777493.38	557289.4, 3777493.38	0.10326	0.10473	0.0001036	9.045E-09	0.0001	3.6E-08	1.1E-07	6.3E-08	5.7E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
365 UCAR	557309.4	3777493.38	557309.4, 3777493.38	0.09707	0.09775	9.735E-05	8.442E-09	9.7E-05	3.4E-08	1.0E-07	5.9E-08	5.3E-08	2.4E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08
366 UCAR	557329.4	3777493.38	557329.4, 3777493.38	0.09135	0.09142	9.162E-05	7.895E-09	9.2E-05	3.2E-08	9.6E-08	5.5E-08	5.0E-08	2.3E-08	1.1E-09	9.6E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
367 UCAR	557349.4	3777493.38	557349.4, 3777493.38	0.08605	0.08567	8.63E-05	7.399E-09	8.6E-05	3.0E-08	9.0E-08	5.2E-08	4.7E-08	2.2E-08	1.0E-09	9.0E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
368 UCAR	557369.4	3777493.38	557369.4, 3777493.38	0.08115	0.08043	8.139E-05	6.946E-09	8.1E-05	2.8E-08	8.5E-08	4.9E-08	4.5E-08	2.0E-08	9.4E-10	8.5E-09	0.0E+00	0.0E+00	0.0E+00	9.5E-09
369 UCAR	557389.4	3777493.38	557389.4, 3777493.38	0.07663	0.07566	7.685E-05	6.534E-09	7.7E-05	2.7E-08	8.0E-08	4.7E-08	4.2E-08	1.9E-08	8.9E-10	8.0E-09	0.0E+00	0.0E+00	0.0E+00	8.9E-09
370 UCAR	557409.4	3777493.38	557409.4, 3777493.38	0.07246	0.0713	7.267E-05	6.158E-09	7.3E-05	2.5E-08	7.6E-08	4.4E-08	4.0E-08	1.8E-08	8.4E-10	7.6E-09	0.0E+00	0.0E+00	0.0E+00	8.5E-09
371 UCAR	557429.4	3777493.38	557429.4, 3777493.38	0.06859	0.06728	6.879E-05	5.811E-09	6.9E-05	2.4E-08	7.2E-08	4.2E-08	3.8E-08	1.7E-08	8.0E-10	7.2E-09	0.0E+00	0.0E+00	0.0E+00	8.0E-09
372 UCAR	557449.4	3777493.38	557449.4, 3777493.38	0.06503	0.06362	6.522E-05	5.494E-09	6.5E-05	2.3E-08	6.8E-08	3.9E-08	3.6E-08	1.6E-08	7.5E-10	6.8E-09	0.0E+00	0.0E+00	0.0E+00	7.6E-09
373 UCAR	557469.4	3777493.38	557469.4, 3777493.38	0.06175	0.06026	6.193E-05	5.204E-09	6.2E-05	2.1E-08	6.5E-08	3.7E-08	3.4E-08	1.6E-08	7.2E-10	6.5E-09	0.0E+00	0.0E+00	0.0E+00	7.2E-09
374 UCAR	557489.4	3777493.38	557489.4, 3777493.38	0.0587	0.05715	5.887E-05	4.936E-09	5.9E-05	2.0E-08	6.2E-08	3.6E-08	3.2E-08	1.5E-08	6.8E-10	6.2E-09	0.0E+00	0.0E+00	0.0E+00	6.8E-09
375 UCAR	556509.4	3777513.38	556509.4, 3777513.38	0.27964	0.36713	0.0002805	3.171E-08	0.00028	9.7E-08	2.9E-07	1.7E-07	1.5E-07	7.0E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
376 UCAR	556529.4	3777513.38	556529.4, 3777513.38	0.28615	0.3792	0.000287	3.275E-08	0.00029	9.9E-08	3.0E-07	1.7E-07	1.6E-07	7.2E-08	3.3E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
377 UCAR	556549.4	3777513.38	556549.4, 3777513.38	0.29237	0.39107	0.0002932	3.377E-08	0.00029	1.0E-07	3.1E-07	1.8E-07	1.6E-07	7.3E-08	3.4E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
378 U

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose					Risk by Age Group					
	X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
385 UCAR	556709.4	3777513.38	556709.4, 3777513.38	0.31154	0.45845	0.0003125	3.959E-08	0.00031	1.1E-07	3.3E-07	1.9E-07	1.7E-07	7.8E-08	3.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
386 UCAR	556729.4	3777513.38	556729.4, 3777513.38	0.31215	0.46004	0.0003131	3.973E-08	0.00031	1.1E-07	3.3E-07	1.9E-07	1.7E-07	7.8E-08	3.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
387 UCAR	556749.4	3777513.38	556749.4, 3777513.38	0.31334	0.45996	0.0003143	3.972E-08	0.00031	1.1E-07	3.3E-07	1.9E-07	1.7E-07	7.9E-08	3.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
388 UCAR	556769.4	3777513.38	556769.4, 3777513.38	0.31462	0.45746	0.0003155	3.951E-08	0.00032	1.1E-07	3.3E-07	1.9E-07	1.7E-07	7.9E-08	3.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
389 UCAR	556789.4	3777513.38	556789.4, 3777513.38	0.31587	0.45311	0.0003168	3.913E-08	0.00032	1.1E-07	3.3E-07	1.9E-07	1.7E-07	7.9E-08	3.7E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
390 UCAR	556809.4	3777513.38	556809.4, 3777513.38	0.31653	0.44682	0.0003175	3.859E-08	0.00032	1.1E-07	3.3E-07	1.9E-07	1.7E-07	7.9E-08	3.7E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
391 UCAR	556829.4	3777513.38	556829.4, 3777513.38	0.31596	0.43844	0.0003169	3.787E-08	0.00032	1.1E-07	3.3E-07	1.9E-07	1.7E-07	7.9E-08	3.7E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
392 UCAR	556849.4	3777513.38	556849.4, 3777513.38	0.31376	0.42842	0.0003147	3.7E-08	0.00031	1.1E-07	3.3E-07	1.9E-07	1.7E-07	7.9E-08	3.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
393 UCAR	556869.4	3777513.38	556869.4, 3777513.38	0.30952	0.41667	0.0003104	3.599E-08	0.00031	1.1E-07	3.2E-07	1.9E-07	1.7E-07	7.8E-08	3.6E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
394 UCAR	556889.4	3777513.38	556889.4, 3777513.38	0.30314	0.40326	0.000304	3.483E-08	0.0003	1.1E-07	3.2E-07	1.8E-07	1.7E-07	7.6E-08	3.5E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
395 UCAR	556909.4	3777513.38	556909.4, 3777513.38	0.29474	0.38807	0.0002956	3.352E-08	0.0003	1.0E-07	3.1E-07	1.8E-07	1.6E-07	7.4E-08	3.4E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
396 UCAR	556929.4	3777513.38	556929.4, 3777513.38	0.28457	0.37103	0.0002854	3.204E-08	0.00029	9.9E-08	3.0E-07	1.7E-07	1.6E-07	7.1E-08	3.3E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
397 UCAR	556949.4	3777513.38	556949.4, 3777513.38	0.273	0.35234	0.0002738	3.043E-08	0.00027	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
398 UCAR	556969.4	3777513.38	556969.4, 3777513.38	0.26034	0.33234	0.0002611	2.87E-08	0.00026	9.0E-08	2.7E-07	1.6E-07	1.4E-07	6.5E-08	3.0E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
399 UCAR	556989.4	3777513.38	556989.4, 3777513.38	0.24693	0.3115	0.0002477	2.69E-08	0.00025	8.6E-08	2.6E-07	1.5E-07	1.4E-07	6.2E-08	2.9E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
400 UCAR	557009.4	3777513.38	557009.4, 3777513.38	0.23314	0.29042	0.0002338	2.508E-08	0.00023	8.1E-08	2.4E-07	1.4E-07	1.3E-07	5.9E-08	2.7E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
401 UCAR	557029.4	3777513.38	557029.4, 3777513.38	0.2193	0.26961	0.0002199	2.328E-08	0.00022	7.6E-08	2.3E-07	1.3E-07	1.2E-07	5.5E-08	2.5E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
402 UCAR	557049.4	3777513.38	557049.4, 3777513.38	0.20581	0.24955	0.0002064	2.155E-08	0.00021	7.1E-08	2.2E-07	1.2E-07	1.1E-07	5.2E-08	2.4E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
403 UCAR	557069.4	3777513.38	557069.4, 3777513.38	0.19291	0.23053	0.0001935	1.991E-08	0.00019	6.7E-08	2.0E-07	1.2E-07	1.1E-07	4.8E-08	2.2E-09	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
404 UCAR	557089.4	3777513.38	557089.4, 3777513.38	0.18083	0.21276	0.0001814	1.837E-08	0.00018	6.3E-08	1.9E-07	1.1E-07	9.9E-08	4.5E-08	2.1E-09	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
405 UCAR	557109.4	3777513.38	557109.4, 3777513.38	0.16962	0.19633	0.0001701	1.696E-08	0.00017	5.9E-08	1.8E-07	1.0E-07	9.3E-08	4.3E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
406 UCAR	557129.4	3777513.38	557129.4, 3777513.38	0.15928	0.18124	0.0001597	1.565E-08	0.00016	5.5E-08	1.7E-07	9.7E-08	8.8E-08	4.0E-08	1.8E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
407 UCAR	557149.4	3777513.38	557149.4, 3777513.38	0.14974	0.16745	0.0001502	1.446E-08	0.00015	5.2E-08	1.6E-07	9.1E-08	8.2E-08	3.8E-08	1.7E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
408 UCAR	557169.4	3777513.38	557169.4, 3777513.38	0.1409	0.15489	0.0001413	1.338E-08	0.00014	4.9E-08	1.5E-07	8.6E-08	7.8E-08	3.5E-08	1.6E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
409 UCAR	557189.4	3777513.38	557189.4, 3777513.38	0.13266	0.14347	0.000133	1.239E-08	0.00013	4.6E-08	1.4E-07	8.1E-08	7.3E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
410 UCAR	557209.4	3777513.38	557209.4, 3777513.38	0.12498	0.13312	0.0001253	1.15E-08	0.00013	4.3E-08	1.3E-07	7.6E-08	6.9E-08	3.1E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
411 UCAR	557229.4	3777513.38	557229.4, 3777513.38	0.11775	0.1237	0.0001181	1.068E-08	0.00012	4.1E-08	1.2E-07	7.1E-08	6.5E-08	3.0E-08	1.4E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
412 UCAR	557249.4	3777513.38	557249.4, 3777513.38	0.11098	0.11517	0.0001113	9.947E-09	0.00011	3.9E-08	1.2E-07	6.7E-08	6.1E-08	2.8E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
413 UCAR	557269.4	3777513.38	557269.4, 3777513.38	0.10459	0.10741	0.0001049	9.276E-09	0.0001	3.6E-08	1.1E-07	6.3E-08	5.8E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
414 UCAR	557289.4	3777513.38	557289.4, 3777513.38	0.0986	0.10035	9.889E-05	8.667E-09	9.9E-05	3.4E-08	1.0E-07	6.0E-08	5.4E-08	2.5E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08
415 UCAR	557309.4	3777513.38	557309.4, 3777513.38	0.09299	0.09393	9.326E-05	8.112E-09	9.3E-05	3.2E-08	9.7E-08	5.6E-08	5.1E-08	2.3E-08	1.1E-09	9.8E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
416 UCAR	557329.4	3777513.38	557329.4, 3777513.38	0.08775	0.08808	8.801E-05	7.607E-09	8.8E-05	3.0E-08	9.2E-08	5.3E-08	4.8E-08	2.2E-08	1.0E-09	9.2E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
417 UCAR	557349.4	3777513.38	557349.4, 3777513.38	0.08286	0.08273	8.31E-05	7.145E-09	8.3E-05	2.9E-08	8.7E-08	5.0E-08	4.6E-08	2.1E-08	9.6E-10	8.7E-09	0.0E+00	0.0E+00	0.0E+00	9.7E-09
418 UCAR	557369.4	3777513.38	557369.4, 3777513.38	0.07831	0.07784	7.854E-05	6.723E-09	7.9E-05	2.7E-08	8.2E-08	4.8E-08	4.3E-08	2.0E-08	9.1E-10	8.2E-09	0.0E+00	0.0E+00	0.0E+00	9.1E-09
419 UCAR	557389.4	3777513.38	557389.4, 3777513.38	0.0741	0.07337	7.432E-05	6.337E-09	7.4E-05	2.6E-08	7.8E-08	4.5E-08	4.1E-08	1.9E-08	8.6E-10	7.8E-09	0.0E+00	0.0E+00	0.0E+00	8.6E-09
420 UCAR	557409.4	3777513.38	557409.4, 3777513.38	0.07019	0.06927	7.04E-05	5.982E-09	7E-05	2.4E-08	7.4E-08	4.3E-08	3.9E-08	1.8E-08	8.1E-10	7.4E-09	0.0E+00	0.0E+00	0.0E+00	8.2E-09
421 UCAR	557429.4	3777513.38	557429.4, 3777513.38	0.06655	0.06549	6.674E-05	5.656E-09	6.7E-05	2.3E-08	7.0E-08	4.0E-08	3.7E-08	1.7E-08	7.7E-10	7.0E-09	0.0E+00	0.0E+00	0.0E+00	7.8E-09
422 UCAR	557449.4	3777513.38	557449.4, 3777513.38	0.06319	0.06201	6.337E-05	5.355E-09	6.3E-05	2.2E-08	6.6E-08	3.8E-08	3.5E-08	1.6E-08	7.3E-10	6.6E-09	0.0E+00	0.0E+00	0.0E+00	7.4E-09
423 UCAR	557469.4	3777513.38	557469.4, 3777513.38	0.06007	0.05881	6.025E-05	5.079E-09	6E-05	2.1E-08	6.3E-08	3.6E-08	3.3E-08	1.5E-08	7.0E-10	6.3E-09	0.0E+00	0.0E+00	0.0E+00	7.0E-09
424 UCAR	557489.4	3777513.38	557489.4, 3777513.38	0.05718	0.05586	5.735E-05	4.824E-09	5.7E-05	2.0E-08	6.0E-08	3.5E-08	3.1E-08	1.4E-08	6.6E-10	6.0E-09	0.0E+00	0.0E+00	0.0E+00	6.7E-09
425 UCAR	556509.4	3777533.38	556509.4, 3777533.38	0.25136	0.33009	0.0002521	2.851E-08	0.00025	8.7E-08	2.6E-07	1.5E-07	1.4E-07	6.3E-08	2.9E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
426 UCAR	556529.4	3777533.38	556529.4, 3777533.38	0.25652	0.33956	0.0002573	2.933E-08	0.00026	8.9E-08	2.7E-07	1.6E-07	1.4E-07	6.4E-08	3.0E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
427 UCAR	556549.4	3777533.38	556549.4, 3777533.38	0.26131	0.34876	0.0002621	3.012E-08	0.00026	9.1E-08	2.7E-07	1.6E-07	1.4E-07	6.6E-08	3.0E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
428 UCAR	556569.4	3777533.38	556569.4, 3777533.38	0.26548	0.35755	0.0002663	3.088E-08	0.00027	9.2E-08	2.8E-07	1.6E-07	1.5E-07	6.7E-08	3.1E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
429 UCAR	556589.4	3777533.38	556589.4, 3777533.38	0.26883	0.36585	0.0002696	3.16E-08	0.00027	9.3E-08	2.8E-07	1.6E-07	1.5E-07	6.7E-08	3.1E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
430 UCAR	556609.4	3777533.38	556609.4, 3777533.38	0.27122	0.3735	0.000272	3.226E-08	0.00027	9.4E-08	2.8E-07	1.6E-07	1.5E-07	6.8E-08	3.1E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
431 UCAR	556629.4	3777533.38	556629.4, 3777533.38	0.27266	0.38036	0.0002735	3.285E-08	0.00027	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.8E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
432 UCAR	556649.4	3777533.38	556649.4, 3777533.38	0.27336	0.38628	0.0002742	3.336E-08	0.00027	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
433 UCAR	556669.4	3777533.38	556669.4, 3777533.38	0.27368	0.39118	0.0002745	3.378E-08	0.00027	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
434 UCAR	556689.4	3777533.38	556689.4, 3777533.38	0.27385	0.39466	0.0002747	3.408E-08	0.00027	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
435 UCAR	556709.4	3777533.38	556709.4, 3777533.38	0.27414	0.39653	0.0002749	3.425E-08	0.00027	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
436 UCAR	556729.4	3777533.38	556729.4, 3777533.38	0.2748	0.39687	0.0002756	3.428E-08	0.00028	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
437 UCAR	556749.4	3777533.38	556749.4, 3777533.38	0.27586	0.39584	0.0002767	3.419E-08	0.00028	9.6E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
438 UCAR	556769.4	3777533.38	556769.4, 3777533.38	0.27704	0.39319	0.0002778	3.396E-08	0.00028	9.6E-08	2.9E-07	1.7E-07	1.5E-07	7.0E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
439 UCAR	556789.4	3777533.38	556789.4, 3777533.38	0.27806	0.38903	0.0002789	3.36E-08	0.00028	9.7E-08	2.9E-07	1.7E-07	1.5E-07	7.0E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
440 UCAR	556809.4	3777533.38	556809.4, 3777533.38	0.27862	0.3836	0.0002794	3.313E-08	0.00028	9.7E-08	2.9E-07	1.7E-07	1.5E-07	7.0E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
441 UCAR	556829.4	3777533.38	556829.4, 3777533.38	0.27816	0.37662	0.000279	3.253E-08	0.00028	9.7E-08	2.9E-07	1.7E-07	1.5E-07	7.0E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
442 UCAR	556849.4	3777533.38	556849.4, 3777533.38	0.27643	0.36848	0.0002772	3.182E-08	0.00028	9.6E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
443 UCAR	556869.4	3777533.38	556869.4, 3777533.38	0.27305	0.35899	0.0002738	3.1E-08	0.00027	9.5E-08	2.9E-07	1.7E-07	1.5E-07	6.9E-08	3.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
444 UCAR	556889.4	3777533.38	556889.4, 3777533.38	0.26796	0.34818	0.0002687	3.007E-08	0.00027	9.3E-08	2.8E-07	1.6E-07	1.5E-07	6.7E-08	3.1E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
445 UCAR	556909.4	3777533.38	556909.4, 3777533.38	0.26126	0.33604	0.000262	2.902E-08	0.00026	9.1E-08	2.7E-07	1.6E-07	1.4E-07	6.6E-08	3.0E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
446 UCAR	556929.4	3777533.38	556929.4, 3777533.38	0.25314	0.32251	0.0002539	2.785E-08	0.00025	8.8E-08	2.7E-07	1.5E-07	1.4E-07	6.4E-08	2.9E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
447 UCAR	556949.4	3777533.38	556949.4, 3777533.38	0.24385	0.3077	0.0002446	2.657E-08	0.00024	8.5E-08	2.6E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
448 UCAR	556969.4	3777533.38	556969.4, 3777533.38	0.23362	0.29184	0.0002343	2.52E-08	0.00023	8.1E-08	2.4E-07	1.4E-07	1.3E-07	5.9E-08	2.7E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
449 UCAR	556989.4	3777533.38	556989.4, 3777533.38	0.22269	0.27528	0.0002233	2.377E-08	0.00022	7.7E-08	2.3E-07	1.4E-07	1.2E-07	5.6E-08	2.6E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
450 UCAR	557009.4	3777533.38	557009.4, 3777533.38	0.21132	0.2584	0.0002119	2.232E-08	0.00021	7.3E-08	2.2E-07	1.3E-07	1.2E-07	5.3E-08	2.5E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
451 UCAR	557029.4	3777533.38	557029.4, 3777533.38	0.19976	0.24161	0.0002003	2.087E-08	0.0002	6.9E-08	2.1E-07	1.2E-07	1.1E-07	5.0E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
452 UCAR	557049.4	3777533.38	557049.4, 3777533.38	0.1883	0.22522	0.0001889	1.945E-08	0.00019	6.5E-08	2.0E-07	1.1E-07	1.0E-07	4.7E-08	2.2E-09	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
453 UCAR	557069.4	3777533.38	557069.4, 3777533.38	0.17721	0.20952	0.0001777	1.809E-08	0.00018	6.2E-08	1.9E-07	1.1E-07	9.7E-08	4.4E-08	2.1E-09	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
454 UCAR	557089.4	3777533.38	557089.4, 3777533.38	0.16669	0.19466	0.0001672	1.681E-08	0.00017	5.8E-08	1.7E-07	1.0E-07	9.2E-08	4.2E-08	1.9E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
455 UCAR	557109.4	3777533.38	557109.4, 3777533.38	0.15685	0.18075	0.0001573	1.561E-08	0.00016	5.4E-08	1.6E-07	9.5E-08	8.6E-08	3.9E-08	1.8E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
456 UCAR	557129.4	3777533.38	557129.4, 3777533.38	0.14774	0.16785	0.0001482	1.45E-08	0.00015	5.1E-08	1.5E-07	9.0E-08	8.1E-08	3.7E-08	1.7E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
457 UCAR	557149.4	3777533.38	557149.4, 3777533.38	0.13931	0.15593	0.0001397	1.347E-08	0.00014	4.8E-08	1.5E-07	8.5E-08	7.7E-08	3.5E-08	1.6E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
458 UCAR	557169.4	3777533.38	557169.4, 3777533.38	0.13151	0.14496	0.0001319	1.252E-08	0.00013	4.6E-08	1.4E-07	8.0E-08	7.2E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
459 UCAR	557189.4	3777533.38	557189.4, 3777533.38	0.12425	0.1349	0.0001246	1.165E-08	0.00012	4.3E-08	1.3E-07	7.5E-08	6.8E-08	3.1E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
460 UCAR	557209.4	3777533.38	557209.4, 3777533.38	0.11748	0.1257	0.0001178	1.086E-08	0.00012	4.1E-08	1.2E-07	7.1E-08	6.5E-08	2.9E-08	1.4E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
461 UCAR	557229.4	3777533.38	557229.4, 3777533.38	0.11109	0.11725	0.0001114	1.013E-08	0.00011	3.9E-08	1.2E-07	6.7E-08	6.1E-08	2.8E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
462 UCAR	557249.4	3777533.38	557249.4, 3777533.38	0.10509	0.10956	0.0001054	9.462E-09	0.00011	3.6E-08	1.1E-07	6.4E-08	5.8E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
463 UCAR	557269.4	3777533.38	557269.4, 3777533.38	0.09941	0.10251	9.97E-05	8.853E-09	1E-04	3.5E-08	1.0E-07	6.0E-08	5.5E-08	2.5E-08	1.2E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
464 UCAR	557289.4	3777533.38	557289.4, 3777533.38	0.09404	0.09607	9.431E-05	8.297E-09	9.4E-05	3.3E-08	9.9E-08	5.7E-08	5.2E-08	2.4E-08	1.1E-09	9.9E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
465 UCAR	557309.4	3777533.38	557309.4, 3777533.38	0.08898	0.09017	8.924E-05	7.787E-09	8.9E-05	3.1E-08	9.3E-08	5.4E-08	4.9E-08	2.2E-08	1.0E-09	9.3E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
466 UCAR	557329.4	3777533.38	557329.4, 3777533.38	0.08421	0.08476	8.446E-05	7.32E-09	8.4E-05	2.9E-08	8.8E-08	5.1E-08	4.6E-08	2.1E-08	9.8E-10	8.8E-09	0.0E+00	0.0E+00	0.0E+00	9.8E-09
467 UCAR	557349.4	3777533.38	557349.4, 3777533.38	0.07973	0.07981	7.996E-05	6.893E-09	8E-05	2.8E-08	8.4E-08	4.8E-08	4.4E-08	2.0E-08	9.2E-10	8.4E-09	0.0E+00	0.0E+00	0.0E+00	9.3E-09
468 UCAR	557369.4	3777533.38	557369.4, 3777533.38	0.07553	0.07525	7.575E-05	6.499E-09	7.6E-05	2.6E-08	7.9E-08	4.6E-08	4.2E-08	1.9E-08	8.8E-10	7.9E-09	0.0E+00	0.0E+00	0.0E+00	8.8E-09
469 UCAR	557389.4	3777533.38	557389.4, 3777533.38	0.0716	0.07106	7.181E-05	6.137E-09	7.2E-05	2.5E-08	7.5E-08	4.3E-08	3.9E-08	1.8E-08	8.3E-10	7.5E-09	0.0E+00	0.0E+00	0.0E+00	8.3E-09
470 UCAR	557409.4	3777533.38	557409.4, 3777533.38	0.06795	0.06721	6.815E-05	5.805E-09	6.8E-05	2.4E-08	7.1E-08	4.1E-08	3.7E-08	1.7E-08	7.9E-10	7.1E-09	0.0E+00	0.0E+00	0.0E+00	7.9E-09
471 UCAR	557429.4	3777533.38	557429.4, 3777533.38	0.06454	0.06366	6.473E-05	5.498E-09	6.5E-05	2.2E-08	6.8E-08	3.9E-08	3.6E-08	1.6E-08	7.5E-10	6.8E-09	0.0E+00	0.0E+00	0.0E+00	7.5E-09
472 UCAR	557449.4	3777533.38	557449.4, 3777533.38	0.06138	0.06038	6.156E-05	5.215E-09	6.2E-05	2.1E-08	6.4E-08	3.7E-08	3.4E-08	1.5E-08	7.1E-10	6.4E-09	0.0E+00	0.0E+00	0.0E+00	7.2E-09
473 UCAR	557469.4	3777533.38	557469.4, 3777533.38	0.05842	0.05735	5.859E-05	4.953E-09	5.9E-05	2.0E-08	6.1E-08	3.5E-08	3.2E-08	1.5E-08	6.8E-10	6.1E-09	0.0E+00	0.0E+00	0.0E+00	6.8

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose					Risk by Age Group					
	X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
481	UCAR	556629.4	3777553.38	556629.4, 3777553.38	0.24212	0.3354	0.0002428	2.897E-08	0.00024	8.4E-08	2.5E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
482	UCAR	556649.4	3777553.38	556649.4, 3777553.38	0.24241	0.33947	0.0002431	2.932E-08	0.00024	8.4E-08	2.5E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
483	UCAR	556669.4	3777553.38	556669.4, 3777553.38	0.24258	0.34275	0.0002433	2.96E-08	0.00024	8.4E-08	2.5E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
484	UCAR	556689.4	3777553.38	556689.4, 3777553.38	0.24273	0.34483	0.0002434	2.978E-08	0.00024	8.4E-08	2.5E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
485	UCAR	556709.4	3777553.38	556709.4, 3777553.38	0.24306	0.34561	0.0002438	2.985E-08	0.00024	8.4E-08	2.5E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
486	UCAR	556729.4	3777553.38	556729.4, 3777553.38	0.24373	0.34525	0.0002444	2.982E-08	0.00024	8.5E-08	2.6E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
487	UCAR	556749.4	3777553.38	556749.4, 3777553.38	0.24475	0.34394	0.0002455	2.97E-08	0.00025	8.5E-08	2.6E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
488	UCAR	556769.4	3777553.38	556769.4, 3777553.38	0.24577	0.34131	0.0002465	2.948E-08	0.00025	8.5E-08	2.6E-07	1.5E-07	1.4E-07	6.2E-08	2.8E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
489	UCAR	556789.4	3777553.38	556789.4, 3777553.38	0.2466	0.33753	0.0002473	2.915E-08	0.00025	8.6E-08	2.6E-07	1.5E-07	1.4E-07	6.2E-08	2.9E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
490	UCAR	556809.4	3777553.38	556809.4, 3777553.38	0.24704	0.33283	0.0002478	2.874E-08	0.00025	8.6E-08	2.6E-07	1.5E-07	1.4E-07	6.2E-08	2.9E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
491	UCAR	556829.4	3777553.38	556829.4, 3777553.38	0.24668	0.32705	0.0002474	2.825E-08	0.00025	8.6E-08	2.6E-07	1.5E-07	1.4E-07	6.2E-08	2.9E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
492	UCAR	556849.4	3777553.38	556849.4, 3777553.38	0.24526	0.32034	0.000246	2.767E-08	0.00025	8.5E-08	2.6E-07	1.5E-07	1.3E-07	6.2E-08	2.8E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
493	UCAR	556869.4	3777553.38	556869.4, 3777553.38	0.24254	0.31259	0.0002432	2.7E-08	0.00024	8.4E-08	2.5E-07	1.5E-07	1.3E-07	6.1E-08	2.8E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
494	UCAR	556889.4	3777553.38	556889.4, 3777553.38	0.23844	0.30381	0.0002391	2.624E-08	0.00024	8.3E-08	2.5E-07	1.4E-07	1.3E-07	6.0E-08	2.8E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
495	UCAR	556909.4	3777553.38	556909.4, 3777553.38	0.23302	0.29396	0.0002337	2.539E-08	0.00023	8.1E-08	2.4E-07	1.4E-07	1.3E-07	5.8E-08	2.7E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
496	UCAR	556929.4	3777553.38	556929.4, 3777553.38	0.22645	0.28303	0.0002271	2.444E-08	0.00023	7.9E-08	2.4E-07	1.4E-07	1.2E-07	5.7E-08	2.6E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
497	UCAR	556949.4	3777553.38	556949.4, 3777553.38	0.21892	0.27113	0.0002196	2.342E-08	0.00022	7.6E-08	2.3E-07	1.3E-07	1.2E-07	5.5E-08	2.5E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
498	UCAR	556969.4	3777553.38	556969.4, 3777553.38	0.21059	0.25836	0.0002112	2.231E-08	0.00021	7.3E-08	2.2E-07	1.3E-07	1.2E-07	5.3E-08	2.4E-09	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
499	UCAR	556989.4	3777553.38	556989.4, 3777553.38	0.20161	0.24498	0.0002022	2.116E-08	0.0002	7.0E-08	2.1E-07	1.2E-07	1.1E-07	5.1E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
500	UCAR	557009.4	3777553.38	557009.4, 3777553.38	0.1922	0.2313	0.0001928	1.998E-08	0.00019	6.7E-08	2.0E-07	1.2E-07	1.1E-07	4.8E-08	2.2E-09	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
501	UCAR	557029.4	3777553.38	557029.4, 3777553.38	0.1825	0.21757	0.000183	1.879E-08	0.00018	6.3E-08	1.9E-07	1.1E-07	1.0E-07	4.6E-08	2.1E-09	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
502	UCAR	557049.4	3777553.38	557049.4, 3777553.38	0.17278	0.20407	0.0001733	1.762E-08	0.00017	6.0E-08	1.8E-07	1.0E-07	9.5E-08	4.3E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
503	UCAR	557069.4	3777553.38	557069.4, 3777553.38	0.16323	0.19099	0.0001637	1.649E-08	0.00016	5.7E-08	1.7E-07	9.9E-08	9.0E-08	4.1E-08	1.9E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
504	UCAR	557089.4	3777553.38	557089.4, 3777553.38	0.15405	0.1785	0.0001545	1.542E-08	0.00015	5.3E-08	1.6E-07	9.3E-08	8.5E-08	3.9E-08	1.8E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
505	UCAR	557109.4	3777553.38	557109.4, 3777553.38	0.14538	0.16668	0.0001458	1.44E-08	0.00015	5.0E-08	1.5E-07	8.8E-08	8.0E-08	3.6E-08	1.7E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
506	UCAR	557129.4	3777553.38	557129.4, 3777553.38	0.1373	0.1556	0.0001377	1.344E-08	0.00014	4.8E-08	1.4E-07	8.3E-08	7.6E-08	3.4E-08	1.6E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
507	UCAR	557149.4	3777553.38	557149.4, 3777553.38	0.12981	0.14528	0.0001302	1.255E-08	0.00013	4.5E-08	1.4E-07	7.9E-08	7.1E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
508	UCAR	557169.4	3777553.38	557169.4, 3777553.38	0.12286	0.13569	0.0001232	1.172E-08	0.00012	4.3E-08	1.3E-07	7.5E-08	6.8E-08	3.1E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
509	UCAR	557189.4	3777553.38	557189.4, 3777553.38	0.11642	0.12682	0.0001168	1.095E-08	0.00012	4.0E-08	1.2E-07	7.1E-08	6.4E-08	2.9E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
510	UCAR	557209.4	3777553.38	557209.4, 3777553.38	0.11041	0.11864	0.0001107	1.025E-08	0.00011	3.8E-08	1.2E-07	6.7E-08	6.1E-08	2.8E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
511	UCAR	557229.4	3777553.38	557229.4, 3777553.38	0.10475	0.11109	0.0001051	9.594E-09	0.00011	3.6E-08	1.1E-07	6.4E-08	5.8E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
512	UCAR	557249.4	3777553.38	557249.4, 3777553.38	0.09942	0.10415	9.971E-05	8.995E-09	1E-04	3.5E-08	1.0E-07	6.0E-08	5.5E-08	2.5E-08	1.2E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
513	UCAR	557269.4	3777553.38	557269.4, 3777553.38	0.09437	0.09776	9.465E-05	8.443E-09	9.5E-05	3.3E-08	9.9E-08	5.7E-08	5.2E-08	2.4E-08	1.1E-09	9.9E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
514	UCAR	557289.4	3777553.38	557289.4, 3777553.38	0.08958	0.09189	8.984E-05	7.936E-09	9E-05	3.1E-08	9.4E-08	5.4E-08	4.9E-08	2.2E-08	1.0E-09	9.4E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
515	UCAR	557309.4	3777553.38	557309.4, 3777553.38	0.08503	0.08648	8.528E-05	7.469E-09	8.5E-05	3.0E-08	8.9E-08	5.2E-08	4.7E-08	2.1E-08	9.9E-10	8.9E-09	0.0E+00	0.0E+00	0.0E+00	9.9E-09
516	UCAR	557329.4	3777553.38	557329.4, 3777553.38	0.08072	0.0815	8.096E-05	7.039E-09	8.1E-05	2.8E-08	8.5E-08	4.9E-08	4.4E-08	2.0E-08	9.4E-10	8.5E-09	0.0E+00	0.0E+00	0.0E+00	9.4E-09
517	UCAR	557349.4	3777553.38	557349.4, 3777553.38	0.07664	0.07692	7.686E-05	6.643E-09	7.7E-05	2.7E-08	8.0E-08	4.7E-08	4.2E-08	1.9E-08	8.9E-10	8.0E-09	0.0E+00	0.0E+00	0.0E+00	8.9E-09
518	UCAR	557369.4	3777553.38	557369.4, 3777553.38	0.07279	0.07269	7.3E-05	6.278E-09	7.3E-05	2.5E-08	7.6E-08	4.4E-08	4.0E-08	1.8E-08	8.4E-10	7.6E-09	0.0E+00	0.0E+00	0.0E+00	8.5E-09
519	UCAR	557389.4	3777553.38	557389.4, 3777553.38	0.06915	0.06877	6.935E-05	5.939E-09	6.9E-05	2.4E-08	7.2E-08	4.2E-08	3.8E-08	1.7E-08	8.0E-10	7.3E-09	0.0E+00	0.0E+00	0.0E+00	8.1E-09
520	UCAR	557409.4	3777553.38	557409.4, 3777553.38	0.06575	0.06516	6.594E-05	5.627E-09	6.6E-05	2.3E-08	6.9E-08	4.0E-08	3.6E-08	1.7E-08	7.6E-10	6.9E-09	0.0E+00	0.0E+00	0.0E+00	7.7E-09
521	UCAR	557429.4	3777553.38	557429.4, 3777553.38	0.06256	0.06182	6.274E-05	5.339E-09	6.3E-05	2.2E-08	6.6E-08	3.8E-08	3.4E-08	1.6E-08	7.3E-10	6.6E-09	0.0E+00	0.0E+00	0.0E+00	7.3E-09
522	UCAR	557449.4	3777553.38	557449.4, 3777553.38	0.05959	0.05874	5.976E-05	5.073E-09	6E-05	2.1E-08	6.2E-08	3.6E-08	3.3E-08	1.5E-08	6.9E-10	6.3E-09	0.0E+00	0.0E+00	0.0E+00	6.9E-09
523	UCAR	557469.4	3777553.38	557469.4, 3777553.38	0.0568	0.05587	5.697E-05	4.825E-09	5.7E-05	2.0E-08	6.0E-08	3.4E-08	3.1E-08	1.4E-08	6.6E-10	6.0E-09	0.0E+00	0.0E+00	0.0E+00	6.6E-09
524	UCAR	557489.4	3777553.38	557489.4, 3777553.38	0.05419	0.0532	5.435E-05	4.595E-09	5.4E-05	1.9E-08	5.7E-08	3.3E-08	3.0E-08	1.4E-08	6.3E-10	5.7E-09	0.0E+00	0.0E+00	0.0E+00	6.3E-09
525	1	557438.91	3777336.71	557438.91, 3777336.7	0.08189	0.07598	8.213E-05	6.562E-09	8.2E-05	2.8E-08	8.6E-08	5.0E-08	4.5E-08	2.1E-08	9.5E-10	8.6E-09	0.0E+00	0.0E+00	0.0E+00	9.5E-09
526	1	556615.91	3777136.99	556615.91, 3777136.9	0.96674	4.83468	0.0009696	4.175E-07	0.00097	3.4E-07	1.0E-06	5.9E-07	5.3E-07	2.4E-07	1.1E-08	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
527	1	556586.37	3777056.16	556586.37, 3777056.16	0.46381	0.94009	0.0004652	8.119E-08	0.00047	1.6E-07	4.9E-07	2.8E-07	2.6E-07	1.2E-07	5.4E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.4E-08
528	UCAR	556672.35	3776929.14	556672.35, 3776929.14	0.40864	0.5286	0.0004098	4.565E-08	0.00041	1.4E-07	4.3E-07	2.5E-07	2.2E-07	1.0E-07	4.7E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
529	UCAR	556692.35	3776929.14	556692.35, 3776929.14	0.45647	0.56991	0.0004578	4.922E-08	0.00046	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.1E-07	5.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
530	UCAR	556712.35	3776929.14	556712.35, 3776929.14	0.51192	0.61114	0.0005134	5.278E-08	0.00051	1.8E-07	5.4E-07	3.1E-07	2.8E-07	1.3E-07	5.9E-09	5.4E-08	0.0E+00	0.0E+00	0.0E+00	6.0E-08
531	UCAR	556732.35	3776929.14	556732.35, 3776929.14	0.57142	0.64656	0.0005731	5.584E-08	0.00057	2.0E-07	6.0E-07	3.5E-07	3.1E-07	1.4E-07	6.6E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.7E-08
532	UCAR	556752.35	3776929.14	556752.35, 3776929.14	0.63845	0.67625	0.0006403	5.84E-08	0.00064	2.2E-07	6.7E-07	3.9E-07	3.5E-07	1.6E-07	7.4E-09	6.7E-08	0.0E+00	0.0E+00	0.0E+00	7.4E-08
533	UCAR	556772.35	3776929.14	556772.35, 3776929.14	0.698	0.68959	0.0007	5.956E-08	0.0007	2.4E-07	7.3E-07	4.2E-07	3.8E-07	1.8E-07	8.1E-09	7.3E-08	0.0E+00	0.0E+00	0.0E+00	8.1E-08
534	UCAR	556792.35	3776929.14	556792.35, 3776929.14	0.75776	0.69362	0.00076	5.99E-08	0.00076	2.6E-07	7.9E-07	4.6E-07	4.2E-07	1.9E-07	8.8E-09	8.0E-08	0.0E+00	0.0E+00	0.0E+00	8.8E-08
535	UCAR	556812.35	3776929.14	556812.35, 3776929.14	0.82506	0.69175	0.0008275	5.974E-08	0.00083	2.9E-07	8.6E-07	5.0E-07	4.5E-07	2.1E-07	9.6E-09	8.7E-08	0.0E+00	0.0E+00	0.0E+00	9.6E-08
536	UCAR	556832.35	3776929.14	556832.35, 3776929.14	0.88052	0.67867	0.0008831	5.861E-08	0.00088	3.1E-07	9.2E-07	5.3E-07	4.8E-07	2.2E-07	1.0E-08	9.2E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
537	UCAR	556852.35	3776929.14	556852.35, 3776929.14	0.94733	0.66285	0.0009501	5.725E-08	0.00095	3.3E-07	9.9E-07	5.7E-07	5.2E-07	2.4E-07	1.1E-08	9.9E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-07
538	UCAR	556672.35	3776949.14	556672.35, 3776949.14	0.45601	0.6186	0.0004573	5.342E-08	0.00046	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.1E-07	5.3E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
539	UCAR	556692.35	3776949.14	556692.35, 3776949.14	0.51345	0.66974	0.000515	5.784E-08	0.00052	1.8E-07	5.4E-07	3.1E-07	2.8E-07	1.3E-07	6.0E-09	5.4E-08	0.0E+00	0.0E+00	0.0E+00	6.0E-08
540	UCAR	556712.35	3776949.14	556712.35, 3776949.14	0.57982	0.71728	0.0005815	6.195E-08	0.00058	2.0E-07	6.1E-07	3.5E-07	3.2E-07	1.5E-07	6.7E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
541	UCAR	556732.35	3776949.14	556732.35, 3776949.14	0.65388	0.7564	0.0006558	6.533E-08	0.00066	2.3E-07	6.9E-07	4.0E-07	3.6E-07	1.6E-07	7.6E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.6E-08
542	UCAR	556752.35	3776949.14	556752.35, 3776949.14	0.73273	0.78304	0.0007349	6.763E-08	0.00073	2.5E-07	7.7E-07	4.4E-07	4.0E-07	1.8E-07	8.5E-09	7.7E-08	0.0E+00	0.0E+00	0.0E+00	8.5E-08
543	UCAR	556772.35	3776949.14	556772.35, 3776949.14	0.81663	0.79752	0.000819	6.888E-08	0.00082	2.8E-07	8.6E-07	5.0E-07	4.5E-07	2.0E-07	9.5E-09	8.6E-08	0.0E+00	0.0E+00	0.0E+00	9.5E-08
544	UCAR	556792.35	3776949.14	556792.35, 3776949.14	0.90495	0.80051	0.0009076	6.914E-08	0.00091	3.1E-07	9.5E-07	5.5E-07	5.0E-07	2.3E-07	1.0E-08	9.5E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-07
545	UCAR	556812.35	3776949.14	556812.35, 3776949.14	0.99103	0.79072	0.0009939	6.829E-08	0.00099	3.4E-07	1.0E-06	6.0E-07	5.5E-07	2.5E-07	1.1E-08	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
546	UCAR	556832.35	3776949.14	556832.35, 3776949.14	1.0643	0.76996	0.0010674	6.65E-08	0.00107	3.7E-07	1.1E-06	6.5E-07	5.9E-07	2.7E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
547	UCAR	556852.35	3776949.14	556852.35, 3776949.14	1.15207	0.74688	0.0011554	6.45E-08	0.00116	4.0E-07	1.2E-06	7.0E-07	6.3E-07	2.9E-07	1.3E-08	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
548	UCAR	556672.35	3776969.14	556672.35, 3776969.14	0.51169	0.73439	0.0005132	6.342E-08	0.00051	1.8E-07	5.4E-07	3.1E-07	2.8E-07	1.3E-07	5.9E-09	5.4E-08	0.0E+00	0.0E+00	0.0E+00	6.0E-08
549	UCAR	556692.35	3776969.14	556692.35, 3776969.14	0.58097	0.7984	0.0005827	6.895E-08	0.00058	2.0E-07	6.1E-07	3.5E-07	3.2E-07	1.5E-07	6.7E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
550	UCAR	556712.35	3776969.14	556712.35, 3776969.14	0.66336	0.85574	0.0006653	7.391E-08	0.00067	2.3E-07	7.0E-07	4.0E-07	3.6E-07	1.7E-07	7.7E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.7E-08
551	UCAR	556732.35	3776969.14	556732.35, 3776969.14	0.75763	0.89903	0.0007598	7.764E-08	0.00076	2.6E-07	7.9E-07	4.6E-07	4.2E-07	1.9E-07	8.8E-09	8.0E-08	0.0E+00	0.0E+00	0.0E+00	8.8E-08
552	UCAR	556752.35	3776969.14	556752.35, 3776969.14	0.86068	0.92416	0.0008632	7.981E-08	0.00086	3.0E-07	9.0E-07	5.2E-07	4.7E-07	2.2E-07	1.0E-08	9.0E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
553	UCAR	556772.35	3776969.14	556772.35, 3776969.14	0.97143	0.93236	0.0009743	8.052E-08	0.00097	3.4E-07	1.0E-06	5.9E-07	5.3E-07	2.4E-07	1.1E-08	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
554	UCAR	556792.35	3776969.14	556792.35, 3776969.14	1.09	0.92707	0.0010932	8.007E-08	0.00109	3.8E-07	1.1E-06	6.6E-07	6.0E-07	2.7E-07	1.3E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
555	UCAR	556812.35	3776969.14	556812.35, 3776969.14	1.2038	0.90716	0.0012073	7.835E-08	0.00121	4.2E-07	1.3E-06	7.3E-07	6.6E-07	3.0E-07	1.4E-08	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
556	UCAR	556832.35	3776969.14	556832.35, 3776969.14	1.31268	0.87831	0.0013165	7.585E-08	0.00132	4.6E-07	1.4E-06	8.0E-07	7.2E-07	3.3E-07	1.5E-08	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
557	UCAR	556852.35	3776969.14	556852.35, 3776969.14	1.42952	0.84598	0.0014337	7.306E-08	0.00143	5.0E-07	1.5E-06	8.7E-07	7.9E-07	3.6E-07	1.7E-08	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
558	UCAR	556672.35	3776989.14	556672.35, 3776989.14	0.57752	0.8869	0.0005792	7.66E-08	0.00058	2.0E-07	6.1E-07	3.5E-07	3.2E-07	1.4E-07	6.7E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.7E-08
559	UCAR	556692.35	3776989.14	556692.35, 3776989.14	0.66168	0.968	0.0006636	8.36E-08	0.00066	2.3E-07	6.9E-07	4.0E-07	3.6E-07	1.7E-07	7.7E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.7E-08
560	UCAR	556712.35	3776989.14	556712.35, 3776989.14	0.76443	1.0365	0.0007667	8.952E-08	0.00077	2.7E-07	8.0E-07	4.6E-07	4.2E-07	1.9E-07	8.9E-09	8.0E-08	0.0E+00	0.0E+00	0.0E+00	8.9E-08
561	UCAR	556732.35	3776989.14	556732.35, 3776989.14	0.88518	1.08201	0.0008878	9.345E-08	0.00089	3.1E-07	9.3E-07	5.4E-07	4.9E-07	2.2E-07	1.0E-08	9.3E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
562	UCAR	556752.35	3776989.14	556752.35, 3776989.14	1.02222	1.1019	0.0010252	9.516E-08	0.00103	3.5E-07	1.1E-06	6.2E-07	5.6E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
563	UCAR	556772.35	3776989.14	556772.35, 3776989.14	1.17199	1.09906	0.0011754	9.492E-08	0.00118	4.1E-07	1.2E-06	7.1E-07	6.4E-07	2.9E-07	1.4E-08	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
564	UCAR	556792.35	3776989.14	556792.35, 3776989.14	1.33616	1.08113	0.0013401	9.337E-08	0.00134	4.6E-07	1.4E-06	8.1E-07	7.4E-07	3.4E-07	1.5E-08	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
565	UCAR	556812.35	3776989.14	556812.35, 3776989.14	1.49242	1.04735	0.0014968	9.045E-08	0.0015	5.2E-07	1.6E-06	9.1E-07	8.2E-07	3.7E-07	1.7E-08	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
566	UCAR	556832.35	3776989.14	556832.35, 3776989.14	1.64914	1.00633	0.001654	8.691E-08	0.00165	5.7E-07	1.7E-06	1.0E-06	9.1E-07	4.1E-07	1.9E-08	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
567	UCAR	556852.35	3776989.14	556852.35, 3776989.14	1.81521	0.96399	0.0018205	8.325E-08	0.00182	6.3E-07	1.9E-06	1.1E-06	1.0E-06	4.6E-07	2.1E-08	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
568	UCAR	556672.35	3777009.14	556672.35, 3777009.14	0.65439	1.09154	0.0006563	9.427E-08	0.00066	2.3E-07	6.9E-07	4.0E-07	3.6E-07	1.6E-07	7.6E-09	6.9E-08	0.0E+00	0.0E+00	0.0E+00	7.6E-08
569	UCAR	556692.35	3777009.14	556692.35, 3777009.14	0.75885	1.1976	0.0007611	1.034E-07	0.00076	2.6E-07	8.0E-07	4.6E-07	4.2E-07

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID			Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose					Risk by Age Group				
X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
577 UCAR 556852.35	3777009.14	556852.35, 3777009.14	2.36637	1.10632	0.0023733	9.555E-08	0.00237	8.2E-07	2.5E-06	1.4E-06	1.3E-06	5.9E-07	2.7E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
578 UCAR 556672.35	3777029.14	556672.35, 3777029.14	0.74715	1.38179	0.0007493	1.193E-07	0.00075	2.6E-07	7.8E-07	4.5E-07	4.1E-07	1.9E-07	8.7E-09	7.8E-08	0.0E+00	0.0E+00	0.0E+00	8.7E-08
579 UCAR 556692.35	3777029.14	556692.35, 3777029.14	0.877	1.51942	0.0008796	1.312E-07	0.00088	3.0E-07	9.2E-07	5.3E-07	4.8E-07	2.2E-07	1.0E-08	9.2E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
580 UCAR 556712.35	3777029.14	556712.35, 3777029.14	1.04342	1.61109	0.0010465	1.391E-07	0.00105	3.6E-07	1.1E-06	6.3E-07	5.7E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
581 UCAR 556732.35	3777029.14	556732.35, 3777029.14	1.24666	1.63954	0.0012503	1.416E-07	0.00125	4.3E-07	1.3E-06	7.6E-07	6.9E-07	3.1E-07	1.4E-08	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
582 UCAR 556752.35	3777029.14	556752.35, 3777029.14	1.49863	1.62077	0.001503	1.4E-07	0.0015	5.2E-07	1.6E-06	9.1E-07	8.2E-07	3.8E-07	1.7E-08	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
583 UCAR 556772.35	3777029.14	556772.35, 3777029.14	1.79636	1.5701	0.0018016	1.356E-07	0.0018	6.2E-07	1.9E-06	1.1E-06	9.9E-07	4.5E-07	2.1E-08	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
584 UCAR 556792.35	3777029.14	556792.35, 3777029.14	2.13313	1.5033	0.0021394	1.298E-07	0.00214	7.4E-07	2.2E-06	1.3E-06	1.2E-06	5.4E-07	2.5E-08	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
585 UCAR 556812.35	3777029.14	556812.35, 3777029.14	2.47888	1.4273	0.0024861	1.233E-07	0.00249	8.6E-07	2.6E-06	1.5E-06	1.4E-06	6.2E-07	2.9E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
586 UCAR 556832.35	3777029.14	556832.35, 3777029.14	2.83588	1.35166	0.0028442	1.167E-07	0.00284	9.8E-07	3.0E-06	1.7E-06	1.6E-06	7.1E-07	3.3E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
587 UCAR 556852.35	3777029.14	556852.35, 3777029.14	3.17905	1.28066	0.0031883	1.106E-07	0.00319	1.1E-06	3.3E-06	1.9E-06	1.7E-06	8.0E-07	3.7E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
588 UCAR 556672.35	3777049.14	556672.35, 3777049.14	0.85982	1.81481	0.0008623	1.567E-07	0.00086	3.0E-07	9.0E-07	5.2E-07	4.7E-07	2.2E-07	1.0E-08	9.0E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
589 UCAR 556692.35	3777049.14	556692.35, 3777049.14	1.02384	1.99289	0.0010268	1.721E-07	0.00103	3.6E-07	1.1E-06	6.2E-07	5.6E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
590 UCAR 556712.35	3777049.14	556712.35, 3777049.14	1.23881	2.08247	0.0012424	1.799E-07	0.00124	4.3E-07	1.3E-06	7.5E-07	6.8E-07	3.1E-07	1.4E-08	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
591 UCAR 556732.35	3777049.14	556732.35, 3777049.14	1.51033	2.07435	0.0015147	1.791E-07	0.00151	5.2E-07	1.6E-06	9.2E-07	8.3E-07	3.8E-07	1.8E-08	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
592 UCAR 556752.35	3777049.14	556752.35, 3777049.14	1.86157	2.00633	0.001867	1.733E-07	0.00187	6.5E-07	2.0E-06	1.1E-06	1.0E-06	4.7E-07	2.2E-08	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
593 UCAR 556772.35	3777049.14	556772.35, 3777049.14	2.29933	1.9084	0.0023061	1.648E-07	0.00231	8.0E-07	2.4E-06	1.4E-06	1.3E-06	5.8E-07	2.7E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
594 UCAR 556792.35	3777049.14	556792.35, 3777049.14	2.81027	1.80011	0.0028185	1.555E-07	0.00282	9.8E-07	2.9E-06	1.7E-06	1.5E-06	7.1E-07	3.3E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
595 UCAR 556812.35	3777049.14	556812.35, 3777049.14	3.37245	1.69288	0.0033823	1.462E-07	0.00338	1.2E-06	3.5E-06	2.0E-06	1.9E-06	8.5E-07	3.9E-08	3.5E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
596 UCAR 556832.35	3777049.14	556832.35, 3777049.14	3.94208	1.59141	0.0039536	1.374E-07	0.00395	1.4E-06	4.1E-06	2.4E-06	2.2E-06	9.9E-07	4.6E-08	4.1E-07	0.0E+00	0.0E+00	0.0E+00	4.6E-07
597 UCAR 556852.35	3777049.14	556852.35, 3777049.14	4.42872	1.49918	0.0044417	1.295E-07	0.00444	1.5E-06	4.6E-06	2.7E-06	2.4E-06	1.1E-06	5.1E-08	4.7E-07	0.0E+00	0.0E+00	0.0E+00	5.2E-07
598 UCAR 556927.54	3776959.53	556927.54, 3776959.53	1.55388	0.68578	0.0015584	5.923E-08	0.00156	5.4E-07	1.6E-06	9.4E-07	8.5E-07	3.9E-07	1.8E-08	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
599 UCAR 556947.54	3776959.53	556947.54, 3776959.53	1.45909	0.64982	0.0014634	5.612E-08	0.00146	5.1E-07	1.5E-06	8.9E-07	8.0E-07	3.7E-07	1.7E-08	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
600 UCAR 556967.54	3776959.53	556967.54, 3776959.53	1.299	0.6127	0.0013028	5.292E-08	0.0013	4.5E-07	1.4E-06	7.9E-07	7.1E-07	3.3E-07	1.5E-08	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
601 UCAR 556987.54	3776959.53	556987.54, 3776959.53	1.11422	0.575	0.0011175	4.966E-08	0.00112	3.9E-07	1.2E-06	6.8E-07	6.1E-07	2.8E-07	1.3E-08	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
602 UCAR 557007.54	3776959.53	557007.54, 3776959.53	0.93781	0.53424	0.0009406	4.614E-08	0.00094	3.3E-07	9.8E-07	5.7E-07	5.2E-07	2.4E-07	1.1E-08	9.8E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-07
603 UCAR 557027.54	3776959.53	557027.54, 3776959.53	0.78806	0.49238	0.0007904	4.252E-08	0.00079	2.7E-07	8.3E-07	4.8E-07	4.3E-07	2.0E-07	9.1E-09	8.3E-08	0.0E+00	0.0E+00	0.0E+00	9.2E-08
604 UCAR 557047.54	3776959.53	557047.54, 3776959.53	0.66801	0.45044	0.00067	3.89E-08	0.00067	2.3E-07	7.0E-07	4.1E-07	3.7E-07	1.7E-07	7.7E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.8E-08
605 UCAR 557067.54	3776959.53	557067.54, 3776959.53	0.57229	0.4095	0.000574	3.537E-08	0.00057	2.0E-07	6.0E-07	3.5E-07	3.1E-07	1.4E-07	6.6E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.7E-08
606 UCAR 557087.54	3776959.53	557087.54, 3776959.53	0.49432	0.37046	0.0004958	3.199E-08	0.0005	1.7E-07	5.2E-07	3.0E-07	2.7E-07	1.2E-07	5.7E-09	5.2E-08	0.0E+00	0.0E+00	0.0E+00	5.8E-08
607 UCAR 556927.54	3776979.53	556927.54, 3776979.53	1.83739	0.76524	0.0018428	6.609E-08	0.00184	6.4E-07	1.9E-06	1.1E-06	1.0E-06	4.6E-07	2.1E-08	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
608 UCAR 556947.54	3776979.53	556947.54, 3776979.53	1.66026	0.72174	0.0016651	6.233E-08	0.00167	5.8E-07	1.7E-06	1.0E-06	9.1E-07	4.2E-07	1.9E-08	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
609 UCAR 556967.54	3776979.53	556967.54, 3776979.53	1.42511	0.67529	0.0014293	5.832E-08	0.00143	4.9E-07	1.5E-06	8.6E-07	7.8E-07	3.6E-07	1.7E-08	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
610 UCAR 556987.54	3776979.53	556987.54, 3776979.53	1.18801	0.62686	0.0011915	5.414E-08	0.00119	4.1E-07	1.2E-06	7.2E-07	6.5E-07	3.0E-07	1.4E-08	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
611 UCAR 557007.54	3776979.53	557007.54, 3776979.53	0.98368	0.57932	0.0009866	5.003E-08	0.00099	3.4E-07	1.0E-06	6.0E-07	5.4E-07	2.5E-07	1.1E-08	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
612 UCAR 557027.54	3776979.53	557027.54, 3776979.53	0.82024	0.52908	0.0008226	4.569E-08	0.00082	2.8E-07	8.6E-07	5.0E-07	4.5E-07	2.1E-07	9.5E-09	8.6E-08	0.0E+00	0.0E+00	0.0E+00	9.6E-08
613 UCAR 557047.54	3776979.53	557047.54, 3776979.53	0.69248	0.47959	0.0006945	4.142E-08	0.00069	2.4E-07	7.3E-07	4.2E-07	3.8E-07	1.7E-07	8.0E-09	7.3E-08	0.0E+00	0.0E+00	0.0E+00	8.1E-08
614 UCAR 557067.54	3776979.53	557067.54, 3776979.53	0.59103	0.43219	0.0005928	3.733E-08	0.00059	2.1E-07	6.2E-07	3.6E-07	3.3E-07	1.5E-07	6.9E-09	6.2E-08	0.0E+00	0.0E+00	0.0E+00	6.9E-08
615 UCAR 557087.54	3776979.53	557087.54, 3776979.53	0.50797	0.38778	0.0005095	3.349E-08	0.00051	1.8E-07	5.3E-07	3.1E-07	2.8E-07	1.3E-07	5.9E-09	5.3E-08	0.0E+00	0.0E+00	0.0E+00	5.9E-08
616 UCAR 556927.54	3776999.53	556927.54, 3776999.53	2.16431	0.8592	0.0021706	7.42E-08	0.00217	7.5E-07	2.3E-06	1.3E-06	1.2E-06	5.4E-07	2.5E-08	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
617 UCAR 556947.54	3776999.53	556947.54, 3776999.53	1.87176	0.80443	0.0018772	6.947E-08	0.00188	6.5E-07	2.0E-06	1.1E-06	1.0E-06	4.7E-07	2.2E-08	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
618 UCAR 556967.54	3776999.53	556967.54, 3776999.53	1.54831	0.74712	0.0015528	6.452E-08	0.00155	5.4E-07	1.6E-06	9.4E-07	8.5E-07	3.9E-07	1.8E-08	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
619 UCAR 556987.54	3776999.53	556987.54, 3776999.53	1.2595	0.68975	0.0012632	5.957E-08	0.00126	4.4E-07	1.3E-06	7.6E-07	6.9E-07	3.2E-07	1.5E-08	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
620 UCAR 557007.54	3776999.53	557007.54, 3776999.53	1.03011	0.62897	0.0010331	5.432E-08	0.00103	3.6E-07	1.1E-06	6.3E-07	5.7E-07	2.6E-07	1.2E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
621 UCAR 557027.54	3776999.53	557027.54, 3776999.53	0.85458	0.56853	0.0008571	4.91E-08	0.00086	3.0E-07	9.0E-07	5.2E-07	4.7E-07	2.1E-07	9.9E-09	9.0E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
622 UCAR 557047.54	3776999.53	557047.54, 3776999.53	0.7186	0.51019	0.0007207	4.406E-08	0.00072	2.5E-07	7.5E-07	4.4E-07	4.0E-07	1.8E-07	8.3E-09	7.5E-08	0.0E+00	0.0E+00	0.0E+00	8.4E-08
623 UCAR 557067.54	3776999.53	557067.54, 3776999.53	0.61011	0.45541	0.0006119	3.933E-08	0.00061	2.1E-07	6.4E-07	3.7E-07	3.4E-07	1.5E-07	7.1E-09	6.4E-08	0.0E+00	0.0E+00	0.0E+00	7.1E-08
624 UCAR 557087.54	3776999.53	557087.54, 3776999.53	0.52137	0.40517	0.0005229	3.499E-08	0.00052	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	6.0E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	6.1E-08
625 UCAR 556927.54	3777019.53	556927.54, 3777019.53	2.53182	0.97175	0.0025392	8.392E-08	0.00254	8.8E-07	2.7E-06	1.5E-06	1.4E-06	6.4E-07	2.9E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
626 UCAR 556947.54	3777019.53	556947.54, 3777019.53	2.08665	0.90267	0.0020928	7.796E-08	0.00209	7.2E-07	2.2E-06	1.3E-06	1.1E-06	5.2E-07	2.4E-08	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
627 UCAR 556967.54	3777019.53	556967.54, 3777019.53	1.66737	0.83077	0.0016722	7.175E-08	0.00167	5.8E-07	1.7E-06	1.0E-06	9.2E-07	4.2E-07	1.9E-08	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
628 UCAR 556987.54	3777019.53	556987.54, 3777019.53	1.33149	0.75831	0.0013354	6.549E-08	0.00134	4.6E-07	1.4E-06	8.1E-07	7.3E-07	3.3E-07	1.5E-08	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
629 UCAR 557007.54	3777019.53	557007.54, 3777019.53	1.08038	0.68351	0.0010835	5.903E-08	0.00108	3.8E-07	1.1E-06	6.6E-07	5.9E-07	2.7E-07	1.3E-08	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
630 UCAR 557027.54	3777019.53	557027.54, 3777019.53	0.89221	0.61075	0.0008948	5.275E-08	0.00089	3.1E-07	9.4E-07	5.4E-07	4.9E-07	2.2E-07	1.0E-08	9.4E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
631 UCAR 557047.54	3777019.53	557047.54, 3777019.53	0.74623	0.54213	0.0007484	4.682E-08	0.00075	2.6E-07	7.8E-07	4.5E-07	4.1E-07	1.9E-07	8.7E-09	7.8E-08	0.0E+00	0.0E+00	0.0E+00	8.7E-08
632 UCAR 557067.54	3777019.53	557067.54, 3777019.53	0.62942	0.47914	0.0006313	4.138E-08	0.00063	2.2E-07	6.6E-07	3.8E-07	3.5E-07	1.6E-07	7.3E-09	6.6E-08	0.0E+00	0.0E+00	0.0E+00	7.3E-08
633 UCAR 557087.54	3777019.53	557087.54, 3777019.53	0.53436	0.42251	0.0005359	3.649E-08	0.00054	1.9E-07	5.6E-07	3.2E-07	2.9E-07	1.3E-07	6.2E-09	5.6E-08	0.0E+00	0.0E+00	0.0E+00	6.2E-08
634 UCAR 556927.54	3777039.53	556927.54, 3777039.53	2.93674	1.10851	0.0029453	9.574E-08	0.00295	1.0E-06	3.1E-06	1.8E-06	1.6E-06	7.4E-07	3.4E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
635 UCAR 556947.54	3777039.53	556947.54, 3777039.53	2.30325	1.01942	0.00231	8.804E-08	0.00231	8.0E-07	2.4E-06	1.4E-06	1.3E-06	5.8E-07	2.7E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
636 UCAR 556967.54	3777039.53	556967.54, 3777039.53	1.78685	0.92956	0.0017921	8.028E-08	0.00179	6.2E-07	1.9E-06	1.1E-06	9.8E-07	4.5E-07	2.1E-08	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
637 UCAR 556987.54	3777039.53	556987.54, 3777039.53	1.40944	0.83553	0.0014136	7.216E-08	0.00141	4.9E-07	1.5E-06	8.6E-07	7.8E-07	3.5E-07	1.6E-08	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
638 UCAR 557007.54	3777039.53	557007.54, 3777039.53	1.13676	0.74316	0.0011401	6.418E-08	0.00114	3.9E-07	1.2E-06	6.9E-07	6.3E-07	2.9E-07	1.3E-08	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
639 UCAR 557027.54	3777039.53	557027.54, 3777039.53	0.93308	0.65564	0.0009358	5.662E-08	0.00094	3.2E-07	9.8E-07	5.7E-07	5.1E-07	2.3E-07	1.1E-08	9.8E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-07
640 UCAR 557047.54	3777039.53	557047.54, 3777039.53	0.77459	0.57521	0.0007769	4.968E-08	0.00078	2.7E-07	8.1E-07	4.7E-07	4.3E-07	1.9E-07	9.0E-09	8.1E-08	0.0E+00	0.0E+00	0.0E+00	9.0E-08
641 UCAR 557067.54	3777039.53	557067.54, 3777039.53	0.64826	0.50305	0.0006502	4.345E-08	0.00065	2.3E-07	6.8E-07	3.9E-07	3.6E-07	1.6E-07	7.5E-09	6.8E-08	0.0E+00	0.0E+00	0.0E+00	7.6E-08
642 UCAR 557087.54	3777039.53	557087.54, 3777039.53	0.54681	0.43959	0.0005484	3.796E-08	0.00055	1.9E-07	5.7E-07	3.3E-07	3.0E-07	1.4E-07	6.3E-09	5.7E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
643 UCAR 557047.54	3777059.53	557047.54, 3777059.53	0.80244	0.60606	0.0008048	5.234E-08	0.0008	2.8E-07	8.4E-07	4.9E-07	4.4E-07	2.0E-07	9.3E-09	8.4E-08	0.0E+00	0.0E+00	0.0E+00	9.4E-08
644 UCAR 557067.54	3777059.53	557067.54, 3777059.53	0.66642	0.52433	0.0006684	4.528E-08	0.00067	2.3E-07	7.0E-07	4.0E-07	3.7E-07	1.7E-07	7.7E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.8E-08
645 UCAR 557087.54	3777059.53	557087.54, 3777059.53	0.55892	0.45405	0.0005606	3.921E-08	0.00056	1.9E-07	5.9E-07	3.4E-07	3.1E-07	1.4E-07	6.5E-09	5.9E-08	0.0E+00	0.0E+00	0.0E+00	6.5E-08
646 UCAR 556919.02	3777174.93	556919.02, 3777174.93	9.03972	4.31315	0.0090661	3.725E-07	0.00907	3.1E-06	9.5E-06	5.5E-06	5.0E-06	2.3E-06	1.0E-07	9.5E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-06
647 UCAR 556939.02	3777174.93	556939.02, 3777174.93	5.13625	3.18793	0.0051513	2.753E-07	0.00515	1.8E-06	5.4E-06	3.1E-06	2.8E-06	1.3E-06	6.0E-08	5.4E-07	0.0E+00	0.0E+00	0.0E+00	6.0E-07
648 UCAR 556919.02	3777194.93	556919.02, 3777194.93	7.84109	5.62975	0.007864	4.862E-07	0.00786	2.7E-06	8.2E-06	4.8E-06	4.3E-06	2.0E-06	9.1E-08	8.2E-07	0.0E+00	0.0E+00	0.0E+00	9.1E-07
649 UCAR 556939.02	3777194.93	556939.02, 3777194.93	4.73694	3.878	0.0047508	3.349E-07	0.00475	1.6E-06	5.0E-06	2.9E-06	2.6E-06	1.2E-06	5.5E-08	5.0E-07	0.0E+00	0.0E+00	0.0E+00	5.5E-07
650 UCAR 556919.02	3777214.93	556919.02, 3777214.93	6.10215	7.39111	0.00612	6.383E-07	0.00612	2.1E-06	6.4E-06	3.7E-06	3.4E-06	1.5E-06	7.1E-08	6.4E-07	0.0E+00	0.0E+00	0.0E+00	7.1E-07
651 UCAR 556939.02	3777214.93	556939.02, 3777214.93	4.02742	4.74005	0.0040392	4.094E-07	0.00404	1.4E-06	4.2E-06	2.4E-06	2.2E-06	1.0E-06	4.7E-08	4.2E-07	0.0E+00	0.0E+00	0.0E+00	4.7E-07
652 UCAR 556919.02	3777234.93	556919.02, 3777234.93	4.58021	9.28704	0.0045936	8.021E-07	0.00459	1.6E-06	4.8E-06	2.8E-06	2.5E-06	1.1E-06	5.3E-08	4.8E-07	0.0E+00	0.0E+00	0.0E+00	5.3E-07
653 UCAR 556939.02	3777234.93	556939.02, 3777234.93	3.26972	5.8633	0.0032793	5.064E-07	0.00328	1.1E-06	3.4E-06	2.0E-06	1.8E-06	8.2E-07	3.8E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.8E-07
654 UCAR 556919.02	3777254.93	556919.02, 3777254.93	3.41855	12.2315	0.0034285	1.056E-06	0.00343	1.2E-06	3.6E-06	2.1E-06	1.9E-06	8.6E-07	4.0E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
655 UCAR 556939.02	3777254.93	556939.02, 3777254.93	2.60437	7.77642	0.002612	6.716E-07	0.00261	9.0E-07	2.7E-06	1.6E-06	1.4E-06	6.5E-07	3.0E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
656 UCAR 557023.57	3777171.57	557023.57, 3777171.57	1.20265	1.03314	0.0012062	8.923E-08	0.00121	4.2E-07	1.3E-06	7.3E-07	6.6E-07	3.0E-07	1.4E-08	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
657 UCAR 557043.57	3777171.57	557043.57, 3777171.57	0.94833	0.822	0.0009511	7.099E-08	0.00095	3.3E-07	9.9E-07	5.8E-07	5.2E-07	2.4E-07	1.1E-08	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
658 UCAR 557063.57	3777171.57	557063.57, 3777171.57	0.76592	0.66609	0.0007682	5.753E-08	0.00077	2.7E-07	8.0E-07	4.6E-07	4.2E-07	1.9E-07	8.9E-09	8.0E-08	0.0E+00	0.0E+00	0.0E+00	8.9E-08
659 UCAR 557083.57	3777171.57	557083.57, 3777171.57	0.6304	0.54848	0.0006322	4.737E-08	0.00063	2.2E-07	6.6E-07	3.8E-07	3.5E-07	1.6E-07	7.3E-09	6.6E-08	0.0E+00	0.0E+00	0.0E+00	7.4E-08
660 UCAR 557023.57	3777191.57	557023.57, 3777191.57	1.18637	1.08407	0.0011898	9.362E-08	0.00119	4.1E-07	1.2E-06	7.2E-07	6.5E-07	3.0E-07	1.4E-08	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
661 UCAR 557043.57	3777191.57	557043.57, 3777191.57	0.94005	0.85093	0.0009428	7.349E-08	0.00094	3.3E-07	9.9E-07	5.7E-07	5.2E-07	2.4E-07	1.1E-08	9.9E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-07
662 UCAR 557063.57	3777191.57	557063.57, 3777191.57	0.76189	0.68418	0.0007641	5.909E-08	0.00076	2.6E-07	8.0E-07	4.6E-07	4.2E-07	1.9E-07	8.8E-09	8.0E-08	0.0E+00	0.0E+00	0.0E+00	8.9E-08
663 UCAR 557083.57	3777191.57	557083.57, 3777191.57	0.62857	0.56025	0.0006304	4.839E-08	0.00063	2.2E-07	6.6E-07	3.8E-07	3.5E-07	1.6E-07	7.3E-09	6.6E-08	0.0E+00	0.0E+00	0.0E+00	7.3E-08
664 UCAR 557023.57	3777211.57	557023.57, 3777211.57	1.14126	1.12616	0.0011446	9.726E-08	0.00114	4.0E-07	1.2E-06	6.9E-07	6.3E-07	2.9E-07	1.3E-08	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
665 UCAR 557043.57	3777211.57	557043.57, 3777211.57	0.91195	0.87151	0.0009146	7.527E-08	0.00091	3.2E-07	9.6E-07	5.5E-07	5.0E-07	2.3E-07	1.1E-08	9.6E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-07
666 UCAR 557063.57	3777211.57	557063.57, 3777211.57	0.74368	0.69427	0.0007459	5.996E-08	0.00075	2.6E-07	7.8E-07	4.5E-07	4.1E-07	1.9E-07	8.6E-09	7.8E-08	0.0E+00	0.0E+00

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose				Risk by Age Group						
	X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
673	UCAR	557043.57	3777251.57	557043.57, 3777251.57	0.80607	0.89069	0.0008084	7.692E-08	0.00081	2.8E-07	8.5E-07	4.9E-07	4.4E-07	2.0E-07	9.3E-09	8.5E-08	0.0E+00	0.0E+00	0.0E+00	9.4E-08
674	UCAR	557063.57	3777251.57	557063.57, 3777251.57	0.67111	0.69861	0.0006731	6.033E-08	0.00067	2.3E-07	7.0E-07	4.1E-07	3.7E-07	1.7E-07	7.8E-09	7.0E-08	0.0E+00	0.0E+00	0.0E+00	7.8E-08
675	UCAR	557083.57	3777251.57	557083.57, 3777251.57	0.56734	0.57681	0.000569	4.982E-08	0.00057	2.0E-07	5.9E-07	3.4E-07	3.1E-07	1.4E-07	6.6E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.6E-08
676	UCAR	556249.05	3776972.85	556249.05, 3776972.85	0.08177	0.09897	8.201E-05	8.547E-09	8.2E-05	2.8E-08	8.6E-08	5.0E-08	4.5E-08	2.1E-08	9.5E-10	8.6E-09	0.0E+00	0.0E+00	0.0E+00	9.5E-09
677	UCAR	556269.05	3776972.85	556269.05, 3776972.85	0.08638	0.10435	8.663E-05	9.012E-09	8.7E-05	3.0E-08	9.1E-08	5.2E-08	4.8E-08	2.2E-08	1.0E-09	9.1E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
678	UCAR	556229.05	3776992.85	556229.05, 3776992.85	0.08132	0.09953	8.156E-05	8.596E-09	8.2E-05	2.8E-08	8.5E-08	4.9E-08	4.5E-08	2.0E-08	9.4E-10	8.5E-09	0.0E+00	0.0E+00	0.0E+00	9.5E-09
679	UCAR	556249.05	3776992.85	556249.05, 3776992.85	0.08572	0.10501	8.597E-05	9.069E-09	8.6E-05	3.0E-08	9.0E-08	5.2E-08	4.7E-08	2.2E-08	9.9E-10	9.0E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
680	UCAR	556269.05	3776992.85	556269.05, 3776992.85	0.09093	0.11215	9.12E-05	9.686E-09	9.1E-05	3.2E-08	9.5E-08	5.5E-08	5.0E-08	2.3E-08	1.1E-09	9.5E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
681	UCAR	556289.05	3776992.85	556289.05, 3776992.85	0.09642	0.11974	9.67E-05	1.034E-08	9.7E-05	3.3E-08	1.0E-07	5.9E-08	5.3E-08	2.4E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08
682	UCAR	556309.05	3776992.85	556309.05, 3776992.85	0.10252	0.12734	0.0001028	1.1E-08	0.0001	3.6E-08	1.1E-07	6.2E-08	5.6E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
683	UCAR	556329.05	3776992.85	556329.05, 3776992.85	0.10857	0.13526	0.0001089	1.168E-08	0.00011	3.8E-08	1.1E-07	6.6E-08	6.0E-08	2.7E-08	1.3E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
684	UCAR	556209.05	3777012.85	556209.05, 3777012.85	0.08083	0.10004	8.107E-05	8.64E-09	8.1E-05	2.8E-08	8.5E-08	4.9E-08	4.4E-08	2.0E-08	9.4E-10	8.5E-09	0.0E+00	0.0E+00	0.0E+00	9.4E-09
685	UCAR	556229.05	3777012.85	556229.05, 3777012.85	0.08498	0.10511	8.523E-05	9.078E-09	8.5E-05	3.0E-08	8.9E-08	5.2E-08	4.7E-08	2.1E-08	9.9E-10	8.9E-09	0.0E+00	0.0E+00	0.0E+00	9.9E-09
686	UCAR	556249.05	3777012.85	556249.05, 3777012.85	0.09002	0.11204	9.028E-05	9.676E-09	9E-05	3.1E-08	9.4E-08	5.5E-08	5.0E-08	2.3E-08	1.0E-09	9.5E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
687	UCAR	556269.05	3777012.85	556269.05, 3777012.85	0.09566	0.12014	9.594E-05	1.038E-08	9.6E-05	3.3E-08	1.0E-07	5.8E-08	5.3E-08	2.4E-08	1.1E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.1E-08
688	UCAR	556289.05	3777012.85	556289.05, 3777012.85	0.10185	0.12918	0.0001021	1.116E-08	0.0001	3.5E-08	1.1E-07	6.2E-08	5.6E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
689	UCAR	556309.05	3777012.85	556309.05, 3777012.85	0.10835	0.13805	0.0001087	1.192E-08	0.00011	3.8E-08	1.1E-07	6.6E-08	6.0E-08	2.7E-08	1.3E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
690	UCAR	556329.05	3777012.85	556329.05, 3777012.85	0.11586	0.14932	0.0001162	1.29E-08	0.00012	4.0E-08	1.2E-07	7.0E-08	6.4E-08	2.9E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
691	UCAR	556209.05	3777032.85	556209.05, 3777032.85	0.08407	0.10514	8.432E-05	9.08E-09	8.4E-05	2.9E-08	8.8E-08	5.1E-08	4.6E-08	2.1E-08	9.7E-10	8.8E-09	0.0E+00	0.0E+00	0.0E+00	9.8E-09
692	UCAR	556229.05	3777032.85	556229.05, 3777032.85	0.08899	0.11182	8.925E-05	9.657E-09	8.9E-05	3.1E-08	9.3E-08	5.4E-08	4.9E-08	2.2E-08	1.0E-09	9.3E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
693	UCAR	556249.05	3777032.85	556249.05, 3777032.85	0.09449	0.11957	9.477E-05	1.033E-08	9.5E-05	3.3E-08	9.9E-08	5.7E-08	5.2E-08	2.4E-08	1.1E-09	9.9E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
694	UCAR	556269.05	3777032.85	556269.05, 3777032.85	0.10055	0.12842	0.0001008	1.109E-08	0.0001	3.5E-08	1.1E-07	6.1E-08	5.5E-08	2.5E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
695	UCAR	556289.05	3777032.85	556289.05, 3777032.85	0.10739	0.13865	0.0001077	1.197E-08	0.00011	3.7E-08	1.1E-07	6.5E-08	5.9E-08	2.7E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
696	UCAR	556309.05	3777032.85	556309.05, 3777032.85	0.11471	0.14969	0.000115	1.293E-08	0.00012	4.0E-08	1.2E-07	7.0E-08	6.3E-08	2.9E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
697	UCAR	556209.05	3777052.85	556209.05, 3777052.85	0.08787	0.11175	8.813E-05	9.651E-09	8.8E-05	3.1E-08	9.2E-08	5.3E-08	4.8E-08	2.2E-08	1.0E-09	9.2E-09	0.0E+00	0.0E+00	0.0E+00	1.0E-08
698	UCAR	556229.05	3777052.85	556229.05, 3777052.85	0.09311	0.11906	9.338E-05	1.028E-08	9.3E-05	3.2E-08	9.8E-08	5.7E-08	5.1E-08	2.3E-08	1.1E-09	9.8E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
699	UCAR	556249.05	3777052.85	556249.05, 3777052.85	0.09923	0.12827	9.952E-05	1.108E-08	1E-04	3.4E-08	1.0E-07	6.0E-08	5.5E-08	2.5E-08	1.2E-09	1.0E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
700	UCAR	556269.05	3777052.85	556269.05, 3777052.85	0.10579	0.13796	0.0001061	1.191E-08	0.00011	3.7E-08	1.1E-07	6.4E-08	5.8E-08	2.7E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
701	UCAR	556289.05	3777052.85	556289.05, 3777052.85	0.11309	0.1491	0.0001134	1.288E-08	0.00011	3.9E-08	1.2E-07	6.9E-08	6.2E-08	2.8E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
702	UCAR	556309.05	3777052.85	556309.05, 3777052.85	0.1212	0.16172	0.0001216	1.397E-08	0.00012	4.2E-08	1.3E-07	7.4E-08	6.7E-08	3.0E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
703	UCAR	556249.05	3777072.85	556249.05, 3777072.85	0.10406	0.13696	0.0001044	1.183E-08	0.0001	3.6E-08	1.1E-07	6.3E-08	5.7E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
704	UCAR	556269.05	3777072.85	556269.05, 3777072.85	0.11132	0.14818	0.0001116	1.28E-08	0.00011	3.9E-08	1.2E-07	6.8E-08	6.1E-08	2.8E-08	1.3E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
705	UCAR	556289.05	3777072.85	556289.05, 3777072.85	0.11922	0.16058	0.0001196	1.387E-08	0.00012	4.1E-08	1.2E-07	7.2E-08	6.6E-08	3.0E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
706	UCAR	556269.05	3777092.85	556269.05, 3777092.85	0.11729	0.15931	0.0001176	1.376E-08	0.00012	4.1E-08	1.2E-07	7.1E-08	6.5E-08	2.9E-08	1.4E-09	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
707	UCAR	556441.69	3776927.49	556441.69, 3776927.49	0.12979	0.1608	0.0001302	1.389E-08	0.00013	4.5E-08	1.4E-07	7.9E-08	7.1E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
708	UCAR	556461.69	3776927.49	556461.69, 3776927.49	0.14019	0.17568	0.0001406	1.517E-08	0.00014	4.9E-08	1.5E-07	8.5E-08	7.7E-08	3.5E-08	1.6E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
709	UCAR	556481.69	3776927.49	556481.69, 3776927.49	0.15036	0.19128	0.0001508	1.652E-08	0.00015	5.2E-08	1.6E-07	9.1E-08	8.3E-08	3.8E-08	1.7E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
710	UCAR	556421.69	3776947.49	556421.69, 3776947.49	0.12904	0.1615	0.0001294	1.395E-08	0.00013	4.5E-08	1.4E-07	7.8E-08	7.1E-08	3.2E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
711	UCAR	556441.69	3776947.49	556441.69, 3776947.49	0.13817	0.17482	0.0001386	1.51E-08	0.00014	4.8E-08	1.4E-07	8.4E-08	7.6E-08	3.5E-08	1.6E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
712	UCAR	556461.69	3776947.49	556461.69, 3776947.49	0.14993	0.19182	0.0001504	1.657E-08	0.00015	5.2E-08	1.6E-07	9.1E-08	8.2E-08	3.8E-08	1.7E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
713	UCAR	556481.69	3776947.49	556481.69, 3776947.49	0.16173	0.20994	0.0001622	1.813E-08	0.00016	5.6E-08	1.7E-07	9.8E-08	8.9E-08	4.1E-08	1.9E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
714	UCAR	556401.69	3776967.49	556401.69, 3776967.49	0.12757	0.16169	0.0001279	1.396E-08	0.00013	4.4E-08	1.3E-07	7.7E-08	7.0E-08	3.2E-08	1.5E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
715	UCAR	556421.69	3776967.49	556421.69, 3776967.49	0.13753	0.17607	0.0001379	1.521E-08	0.00014	4.8E-08	1.4E-07	8.3E-08	7.6E-08	3.5E-08	1.6E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
716	UCAR	556441.69	3776967.49	556441.69, 3776967.49	0.14741	0.19105	0.0001478	1.65E-08	0.00015	5.1E-08	1.5E-07	8.9E-08	8.1E-08	3.7E-08	1.7E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
717	UCAR	556461.69	3776967.49	556461.69, 3776967.49	0.15944	0.20931	0.0001599	1.808E-08	0.00016	5.5E-08	1.7E-07	9.7E-08	8.8E-08	4.0E-08	1.8E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
718	UCAR	556481.69	3776967.49	556481.69, 3776967.49	0.17408	0.23174	0.0001746	2.001E-08	0.00017	6.0E-08	1.8E-07	1.1E-07	9.6E-08	4.4E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
719	UCAR	556401.69	3776987.49	556401.69, 3776987.49	0.13582	0.17583	0.0001362	1.519E-08	0.00014	4.7E-08	1.4E-07	8.2E-08	7.5E-08	3.4E-08	1.6E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
720	UCAR	556421.69	3776987.49	556421.69, 3776987.49	0.146	0.1915	0.0001464	1.654E-08	0.00015	5.1E-08	1.5E-07	8.9E-08	8.0E-08	3.7E-08	1.7E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
721	UCAR	556441.69	3776987.49	556441.69, 3776987.49	0.15826	0.21034	0.0001587	1.817E-08	0.00016	5.5E-08	1.7E-07	9.6E-08	8.7E-08	4.0E-08	1.8E-09	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
722	UCAR	556461.69	3776987.49	556461.69, 3776987.49	0.17169	0.2316	0.0001722	2E-08	0.00017	6.0E-08	1.8E-07	1.0E-07	9.4E-08	4.3E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
723	UCAR	556481.69	3776987.49	556481.69, 3776987.49	0.18786	0.25752	0.0001884	2.224E-08	0.00019	6.5E-08	2.0E-07	1.1E-07	1.0E-07	4.7E-08	2.2E-09	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
724	UCAR	556421.69	3777007.49	556421.69, 3777007.49	0.156	0.20948	0.0001565	1.809E-08	0.00016	5.4E-08	1.6E-07	9.5E-08	8.6E-08	3.9E-08	1.8E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
725	UCAR	556441.69	3777007.49	556441.69, 3777007.49	0.16866	0.23032	0.0001692	1.989E-08	0.00017	5.9E-08	1.8E-07	1.0E-07	9.3E-08	4.2E-08	2.0E-09	1.8E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
726	UCAR	556461.69	3777007.49	556461.69, 3777007.49	0.18378	0.25544	0.0001843	2.206E-08	0.00018	6.4E-08	1.9E-07	1.1E-07	1.0E-07	4.6E-08	2.1E-09	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
727	UCAR	556481.69	3777007.49	556481.69, 3777007.49	0.20219	0.28642	0.0002028	2.474E-08	0.0002	7.0E-08	2.1E-07	1.2E-07	1.1E-07	5.1E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
728	UCAR	556441.69	3777027.49	556441.69, 3777027.49	0.18134	0.25436	0.0001819	2.197E-08	0.00018	6.3E-08	1.9E-07	1.1E-07	1.0E-07	4.6E-08	2.1E-09	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
729	UCAR	556461.69	3777027.49	556461.69, 3777027.49	0.19717	0.28262	0.0001977	2.441E-08	0.0002	6.8E-08	2.1E-07	1.2E-07	1.1E-07	4.9E-08	2.3E-09	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
730	UCAR	556481.69	3777027.49	556481.69, 3777027.49	0.21764	0.31926	0.0002183	2.757E-08	0.00022	7.6E-08	2.3E-07	1.3E-07	1.2E-07	5.5E-08	2.5E-09	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
731	1	556251.24	3777154.95	556251.24, 3777154.95	0.13381	0.18696	0.0001342	1.615E-08	0.00013	4.6E-08	1.4E-07	8.1E-08	7.4E-08	3.4E-08	1.6E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
732	1	556261.28	3771141.2	556261.28, 3771141.2	0.13265	0.18598	0.000133	1.606E-08	0.00013	4.6E-08	1.4E-07	8.1E-08	7.3E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
733	1	556264.98	3777168.16	556264.98, 3777168.16	0.14745	0.20849	0.0001479	1.801E-08	0.00015	5.1E-08	1.5E-07	8.9E-08	8.1E-08	3.7E-08	1.7E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
734	1	556279.25	3777151.77	556279.25, 3777151.77	0.1471	0.21003	0.0001475	1.814E-08	0.00015	5.1E-08	1.5E-07	8.9E-08	8.1E-08	3.7E-08	1.7E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
735	1	556202.6	3777113.45	556202.6, 3777113.45	0.1	0.13315	0.0001003	1.15E-08	0.0001	3.5E-08	1.0E-07	6.1E-08	5.5E-08	2.5E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
736	1	556220.05	3777109.75	556220.05, 3777109.75	0.10475	0.14047	0.0001051	1.213E-08	0.00011	3.6E-08	1.1E-07	6.4E-08	5.8E-08	2.6E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
737	1	556187.53	3777090.19	556187.53, 3777090.19	0.09031	0.11763	9.057E-05	1.016E-08	9.1E-05	3.1E-08	9.5E-08	5.5E-08	5.0E-08	2.3E-08	1.0E-09	9.5E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
738	1	556164.27	3777121.38	556164.27, 3777121.38	0.09127	0.12003	9.154E-05	1.037E-08	9.2E-05	3.2E-08	9.6E-08	5.5E-08	5.0E-08	2.3E-08	1.1E-09	9.6E-09	0.0E+00	0.0E+00	0.0E+00	1.1E-08
739	UCAR	557510.26	3776508.23	557510.26, 3776508.23	0.06985	0.0624	7.005E-05	5.389E-09	7E-05	2.4E-08	7.3E-08	4.2E-08	3.8E-08	1.8E-08	8.1E-10	7.3E-09	0.0E+00	0.0E+00	0.0E+00	8.1E-09
740	UCAR	557530.26	3776508.23	557530.26, 3776508.23	0.06556	0.05959	6.575E-05	5.146E-09	6.6E-05	2.3E-08	6.9E-08	4.0E-08	3.6E-08	1.6E-08	7.6E-10	6.9E-09	0.0E+00	0.0E+00	0.0E+00	7.6E-09
741	UCAR	557550.26	3776508.23	557550.26, 3776508.23	0.06146	0.05692	6.164E-05	4.916E-09	6.2E-05	2.1E-08	6.4E-08	3.7E-08	3.4E-08	1.5E-08	7.1E-10	6.5E-09	0.0E+00	0.0E+00	0.0E+00	7.2E-09
742	UCAR	557570.26	3776508.23	557570.26, 3776508.23	0.05761	0.05438	5.778E-05	4.696E-09	5.8E-05	2.0E-08	6.0E-08	3.5E-08	3.2E-08	1.4E-08	6.7E-10	6.1E-09	0.0E+00	0.0E+00	0.0E+00	6.7E-09
743	UCAR	557590.26	3776508.23	557590.26, 3776508.23	0.05408	0.05201	5.424E-05	4.492E-09	5.4E-05	1.9E-08	5.7E-08	3.3E-08	3.0E-08	1.4E-08	6.3E-10	5.7E-09	0.0E+00	0.0E+00	0.0E+00	6.3E-09
744	UCAR	557610.26	3776508.23	557610.26, 3776508.23	0.05088	0.04978	5.103E-05	4.299E-09	5.1E-05	1.8E-08	5.3E-08	3.1E-08	2.8E-08	1.3E-08	5.9E-10	5.3E-09	0.0E+00	0.0E+00	0.0E+00	5.9E-09
745	UCAR	557630.26	3776508.23	557630.26, 3776508.23	0.04787	0.04766	4.801E-05	4.116E-09	4.8E-05	1.7E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.6E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.6E-09
746	UCAR	557650.26	3776508.23	557650.26, 3776508.23	0.04513	0.04566	4.526E-05	3.943E-09	4.5E-05	1.6E-08	4.7E-08	2.7E-08	2.5E-08	1.1E-08	5.2E-10	4.7E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09
747	UCAR	557670.26	3776508.23	557670.26, 3776508.23	0.04253	0.04373	4.265E-05	3.777E-09	4.3E-05	1.5E-08	4.5E-08	2.6E-08	2.3E-08	1.1E-08	4.9E-10	4.5E-09	0.0E+00	0.0E+00	0.0E+00	5.0E-09
748	UCAR	557690.26	3776508.23	557690.26, 3776508.23	0.0401	0.04188	4.022E-05	3.617E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.6E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
749	UCAR	557510.26	3776528.23	557510.26, 3776528.23	0.06904	0.0627	6.924E-05	5.415E-09	6.9E-05	2.4E-08	7.2E-08	4.2E-08	3.8E-08	1.7E-08	8.0E-10	7.3E-09	0.0E+00	0.0E+00	0.0E+00	8.1E-09
750	UCAR	557530.26	3776528.23	557530.26, 3776528.23	0.0646	0.0598	6.479E-05	5.165E-09	6.5E-05	2.2E-08	6.8E-08	3.9E-08	3.6E-08	1.6E-08	7.5E-10	6.8E-09	0.0E+00	0.0E+00	0.0E+00	7.5E-09
751	UCAR	557550.26	3776528.23	557550.26, 3776528.23	0.06047	0.05707	6.065E-05	4.929E-09	6.1E-05	2.1E-08	6.3E-08	3.7E-08	3.3E-08	1.5E-08	7.0E-10	6.4E-09	0.0E+00	0.0E+00	0.0E+00	7.1E-09
752	UCAR	557570.26	3776528.23	557570.26, 3776528.23	0.05654	0.05446	5.671E-05	4.703E-09	5.7E-05	2.0E-08	5.9E-08	3.4E-08	3.1E-08	1.4E-08	6.6E-10	5.9E-09	0.0E+00	0.0E+00	0.0E+00	6.6E-09
753	UCAR	557590.26	3776528.23	557590.26, 3776528.23	0.05304	0.05204	5.32E-05	4.494E-09	5.3E-05	1.8E-08	5.6E-08	3.2E-08	2.9E-08	1.3E-08	6.1E-10	5.6E-09	0.0E+00	0.0E+00	0.0E+00	6.2E-09
754	UCAR	557610.26	3776528.23	557610.26, 3776528.23	0.04984	0.04976	4.999E-05	4.297E-09	5E-05	1.7E-08	5.2E-08	3.0E-08	2.7E-08	1.3E-08	5.8E-10	5.2E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09
755	UCAR	557630.26	3776528.23	557630.26, 3776528.23	0.04692	0.04762	4.706E-05	4.113E-09	4.7E-05	1.6E-08	4.9E-08	2.8E-08	2.6E-08	1.2E-08	5.4E-10	4.9E-09	0.0E+00	0.0E+00	0.0E+00	5.5E-09
756	UCAR	557650.26	3776528.23	557650.26, 3776528.23	0.04427	0.0456	4.44E-05	3.938E-09	4.4E-05	1.5E-08	4.6E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.6E-09	0.0E+00	0.0E+00	0.0E+00	5.2E-09
757	UCAR	557670.26	3776528.23	557670.26, 3776528.23	0.04169	0.04363	4.181E-05	3.768E-09	4.2E-05	1.4E-08	4.4E-08	2.5E-08	2.3E-08	1.0E-08	4.8E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
758	UCAR	557690.26	3776528.23	557690.26, 3776528.23	0.0394	0.04178	3.952E-05	3.608E-09	4E-05	1.4E-08	4.1E-08	2.4E-08	2.2E-08	9.9E-09	4.6E-10	4.1E-09	0.0E+00	0.0E+00	0.0E+00	4.6E-09
759	UCAR	557510.26	3776548.23	557510.26, 3776548.23	0.06785	0.06288	6.805E-05	5.431E-09	6.8E-05	2.4E-08	7.1E-08	4.1E-08	3.7E-08	1.7E-08	7.9E-10	7.1E-09	0.0E+00	0.0E+00	0.0E+00	7.9E-09
760	UCAR	557530.26	3776548.23	557530.26, 3776548.23	0.06348	0.05995	6.367E-05	5.178E-09	6.4E-05	2.2E-08	6.7E-08	3.9E-08	3.5E-08	1.6E-08	7.4E-10	6.7E-09	0.0E+00	0.0E+00	0.0E+00	7.4E-09
761	UCAR	557550.26	3776548.23	557550.26, 3776548.23	0.

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID			Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose					Risk by Age Group					
X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
769 UCAR 557510.26	3776568.23	557510.26, 3776568.2	0.06643	0.063	6.662E-05	5.441E-09	6.7E-05	2.3E-08	7.0E-08	4.0E-08	3.7E-08	1.7E-08	7.7E-10	7.0E-09	0.0E+00	0.0E+00	0.0E+00	7.7E-09
770 UCAR 557530.26	3776568.23	557530.26, 3776568.2	0.06202	0.05999	6.22E-05	5.181E-09	6.2E-05	2.2E-08	6.5E-08	3.8E-08	3.4E-08	1.6E-08	7.2E-10	6.5E-09	0.0E+00	0.0E+00	0.0E+00	7.2E-09
771 UCAR 557550.26	3776568.23	557550.26, 3776568.2	0.05778	0.05709	5.795E-05	4.931E-09	5.8E-05	2.0E-08	6.1E-08	3.5E-08	3.2E-08	1.5E-08	6.7E-10	6.1E-09	0.0E+00	0.0E+00	0.0E+00	6.7E-09
772 UCAR 557570.26	3776568.23	557570.26, 3776568.2	0.05386	0.05435	5.402E-05	4.694E-09	5.4E-05	1.9E-08	5.6E-08	3.3E-08	3.0E-08	1.4E-08	6.2E-10	5.7E-09	0.0E+00	0.0E+00	0.0E+00	6.3E-09
773 UCAR 557590.26	3776568.23	557590.26, 3776568.2	0.0505	0.05185	5.065E-05	4.478E-09	5.1E-05	1.8E-08	5.3E-08	3.1E-08	2.8E-08	1.3E-08	5.9E-10	5.3E-09	0.0E+00	0.0E+00	0.0E+00	5.9E-09
774 UCAR 557610.26	3776568.23	557610.26, 3776568.2	0.04744	0.04949	4.758E-05	4.274E-09	4.8E-05	1.6E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.5E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.5E-09
775 UCAR 557630.26	3776568.23	557630.26, 3776568.2	0.0447	0.04729	4.483E-05	4.084E-09	4.5E-05	1.6E-08	4.7E-08	2.7E-08	2.5E-08	1.1E-08	5.2E-10	4.7E-09	0.0E+00	0.0E+00	0.0E+00	5.2E-09
776 UCAR 557650.26	3776568.23	557650.26, 3776568.2	0.0423	0.04525	4.242E-05	3.908E-09	4.2E-05	1.5E-08	4.4E-08	2.6E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
777 UCAR 557670.26	3776568.23	557670.26, 3776568.2	0.03999	0.04327	4.011E-05	3.737E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.6E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
778 UCAR 557690.26	3776568.23	557690.26, 3776568.2	0.0379	0.0414	3.801E-05	3.575E-09	3.8E-05	1.3E-08	4.0E-08	2.3E-08	2.1E-08	9.5E-09	4.4E-10	4.0E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09
779 UCAR 557510.26	3776588.23	557510.26, 3776588.2	0.06485	0.06303	6.504E-05	5.444E-09	6.5E-05	2.3E-08	6.8E-08	3.9E-08	3.6E-08	1.6E-08	7.5E-10	6.8E-09	0.0E+00	0.0E+00	0.0E+00	7.6E-09
780 UCAR 557530.26	3776588.23	557530.26, 3776588.2	0.06054	0.05998	6.072E-05	5.18E-09	6.1E-05	2.1E-08	6.3E-08	3.7E-08	3.3E-08	1.5E-08	7.0E-10	6.4E-09	0.0E+00	0.0E+00	0.0E+00	7.1E-09
781 UCAR 557550.26	3776588.23	557550.26, 3776588.2	0.05641	0.05703	5.657E-05	4.925E-09	5.7E-05	2.0E-08	5.9E-08	3.4E-08	3.1E-08	1.4E-08	6.5E-10	5.9E-09	0.0E+00	0.0E+00	0.0E+00	6.6E-09
782 UCAR 557570.26	3776588.23	557570.26, 3776588.2	0.05257	0.05422	5.272E-05	4.683E-09	5.3E-05	1.8E-08	5.5E-08	3.2E-08	2.9E-08	1.3E-08	6.1E-10	5.5E-09	0.0E+00	0.0E+00	0.0E+00	6.1E-09
783 UCAR 557590.26	3776588.23	557590.26, 3776588.2	0.04923	0.05164	4.937E-05	4.46E-09	4.9E-05	1.7E-08	5.2E-08	3.0E-08	2.7E-08	1.2E-08	5.7E-10	5.2E-09	0.0E+00	0.0E+00	0.0E+00	5.7E-09
784 UCAR 557610.26	3776588.23	557610.26, 3776588.2	0.04629	0.04926	4.643E-05	4.254E-09	4.6E-05	1.6E-08	4.9E-08	2.8E-08	2.5E-08	1.2E-08	5.4E-10	4.9E-09	0.0E+00	0.0E+00	0.0E+00	5.4E-09
785 UCAR 557630.26	3776588.23	557630.26, 3776588.2	0.04375	0.04708	4.388E-05	4.066E-09	4.4E-05	1.5E-08	4.6E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.6E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09
786 UCAR 557650.26	3776588.23	557650.26, 3776588.2	0.04143	0.04501	4.155E-05	3.887E-09	4.2E-05	1.4E-08	4.3E-08	2.5E-08	2.3E-08	1.0E-08	4.8E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.8E-09
787 UCAR 557670.26	3776588.23	557670.26, 3776588.2	0.03929	0.04305	3.94E-05	3.718E-09	3.9E-05	1.4E-08	4.1E-08	2.4E-08	2.2E-08	9.9E-09	4.6E-10	4.1E-09	0.0E+00	0.0E+00	0.0E+00	4.6E-09
788 UCAR 557690.26	3776588.23	557690.26, 3776588.2	0.03735	0.0412	3.746E-05	3.558E-09	3.7E-05	1.3E-08	3.9E-08	2.3E-08	2.1E-08	9.4E-09	4.3E-10	3.9E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09
789 UCAR 557510.26	3776608.23	557510.26, 3776608.2	0.06328	0.06299	6.347E-05	5.44E-09	6.3E-05	2.2E-08	6.6E-08	3.8E-08	3.5E-08	1.6E-08	7.3E-10	6.6E-09	0.0E+00	0.0E+00	0.0E+00	7.4E-09
790 UCAR 557530.26	3776608.23	557530.26, 3776608.2	0.05908	0.05989	5.925E-05	5.172E-09	5.9E-05	2.1E-08	6.2E-08	3.6E-08	3.3E-08	1.5E-08	6.8E-10	6.2E-09	0.0E+00	0.0E+00	0.0E+00	6.9E-09
791 UCAR 557550.26	3776608.23	557550.26, 3776608.2	0.05507	0.05689	5.523E-05	4.913E-09	5.5E-05	1.9E-08	5.8E-08	3.3E-08	3.0E-08	1.4E-08	6.4E-10	5.8E-09	0.0E+00	0.0E+00	0.0E+00	6.4E-09
792 UCAR 557570.26	3776608.23	557570.26, 3776608.2	0.05146	0.05407	5.161E-05	4.67E-09	5.2E-05	1.8E-08	5.4E-08	3.1E-08	2.8E-08	1.3E-08	6.0E-10	5.4E-09	0.0E+00	0.0E+00	0.0E+00	6.0E-09
793 UCAR 557590.26	3776608.23	557590.26, 3776608.2	0.04822	0.05143	4.836E-05	4.442E-09	4.8E-05	1.7E-08	5.1E-08	2.9E-08	2.7E-08	1.2E-08	5.6E-10	5.1E-09	0.0E+00	0.0E+00	0.0E+00	5.6E-09
794 UCAR 557610.26	3776608.23	557610.26, 3776608.2	0.04541	0.04902	4.554E-05	4.234E-09	4.6E-05	1.6E-08	4.8E-08	2.8E-08	2.5E-08	1.1E-08	5.3E-10	4.8E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09
795 UCAR 557630.26	3776608.23	557630.26, 3776608.2	0.04295	0.04682	4.308E-05	4.044E-09	4.3E-05	1.5E-08	4.5E-08	2.6E-08	2.4E-08	1.1E-08	5.0E-10	4.5E-09	0.0E+00	0.0E+00	0.0E+00	5.0E-09
796 UCAR 557650.26	3776608.23	557650.26, 3776608.2	0.04071	0.04473	4.083E-05	3.863E-09	4.1E-05	1.4E-08	4.3E-08	2.5E-08	2.2E-08	1.0E-08	4.7E-10	4.3E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
797 UCAR 557670.26	3776608.23	557670.26, 3776608.2	0.03865	0.04275	3.876E-05	3.692E-09	3.9E-05	1.3E-08	4.1E-08	2.3E-08	2.1E-08	9.7E-09	4.5E-10	4.1E-09	0.0E+00	0.0E+00	0.0E+00	4.5E-09
798 UCAR 557690.26	3776608.23	557690.26, 3776608.2	0.03678	0.04089	3.689E-05	3.531E-09	3.7E-05	1.3E-08	3.9E-08	2.2E-08	2.0E-08	9.2E-09	4.3E-10	3.9E-09	0.0E+00	0.0E+00	0.0E+00	4.3E-09
799 UCAR 557510.26	3776628.23	557510.26, 3776628.2	0.06192	0.06291	6.21E-05	5.433E-09	6.2E-05	2.1E-08	6.5E-08	3.8E-08	3.4E-08	1.6E-08	7.2E-10	6.5E-09	0.0E+00	0.0E+00	0.0E+00	7.2E-09
800 UCAR 557530.26	3776628.23	557530.26, 3776628.2	0.05778	0.05973	5.795E-05	5.159E-09	5.8E-05	2.0E-08	6.1E-08	3.5E-08	3.2E-08	1.5E-08	6.7E-10	6.1E-09	0.0E+00	0.0E+00	0.0E+00	6.7E-09
801 UCAR 557550.26	3776628.23	557550.26, 3776628.2	0.05392	0.05667	5.408E-05	4.894E-09	5.4E-05	1.9E-08	5.7E-08	3.3E-08	3.0E-08	1.4E-08	6.3E-10	5.7E-09	0.0E+00	0.0E+00	0.0E+00	6.3E-09
802 UCAR 557570.26	3776628.23	557570.26, 3776628.2	0.05064	0.05394	5.079E-05	4.658E-09	5.1E-05	1.8E-08	5.3E-08	3.1E-08	2.8E-08	1.3E-08	5.9E-10	5.3E-09	0.0E+00	0.0E+00	0.0E+00	5.9E-09
803 UCAR 557590.26	3776628.23	557590.26, 3776628.2	0.04746	0.05119	4.76E-05	4.421E-09	4.8E-05	1.6E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.5E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.5E-09
804 UCAR 557610.26	3776628.23	557610.26, 3776628.2	0.04476	0.04876	4.489E-05	4.211E-09	4.5E-05	1.6E-08	4.7E-08	2.7E-08	2.5E-08	1.1E-08	5.2E-10	4.7E-09	0.0E+00	0.0E+00	0.0E+00	5.2E-09
805 UCAR 557630.26	3776628.23	557630.26, 3776628.2	0.04236	0.04652	4.248E-05	4.018E-09	4.2E-05	1.5E-08	4.4E-08	2.6E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
806 UCAR 557650.26	3776628.23	557650.26, 3776628.2	0.04022	0.04445	4.034E-05	3.839E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.7E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
807 UCAR 557670.26	3776628.23	557670.26, 3776628.2	0.03825	0.04247	3.836E-05	3.668E-09	3.8E-05	1.3E-08	4.0E-08	2.3E-08	2.1E-08	9.6E-09	4.4E-10	4.0E-09	0.0E+00	0.0E+00	0.0E+00	4.5E-09
808 UCAR 557690.26	3776628.23	557690.26, 3776628.2	0.03647	0.04062	3.658E-05	3.508E-09	3.7E-05	1.3E-08	3.8E-08	2.2E-08	2.0E-08	9.2E-09	4.2E-10	3.8E-09	0.0E+00	0.0E+00	0.0E+00	4.3E-09
809 UCAR 557510.26	3776648.23	557510.26, 3776648.2	0.06076	0.06275	6.094E-05	5.419E-09	6.1E-05	2.1E-08	6.4E-08	3.7E-08	3.3E-08	1.5E-08	7.0E-10	6.4E-09	0.0E+00	0.0E+00	0.0E+00	7.1E-09
810 UCAR 557530.26	3776648.23	557530.26, 3776648.2	0.05672	0.05948	5.689E-05	5.137E-09	5.7E-05	2.0E-08	5.9E-08	3.4E-08	3.1E-08	1.4E-08	6.6E-10	6.0E-09	0.0E+00	0.0E+00	0.0E+00	6.6E-09
811 UCAR 557550.26	3776648.23	557550.26, 3776648.2	0.05308	0.05638	5.324E-05	4.869E-09	5.3E-05	1.8E-08	5.6E-08	3.2E-08	2.9E-08	1.3E-08	6.2E-10	5.6E-09	0.0E+00	0.0E+00	0.0E+00	6.2E-09
812 UCAR 557570.26	3776648.23	557570.26, 3776648.2	0.04983	0.05347	4.998E-05	4.618E-09	5E-05	1.7E-08	5.2E-08	3.0E-08	2.7E-08	1.3E-08	5.8E-10	5.2E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09
813 UCAR 557590.26	3776648.23	557590.26, 3776648.2	0.04696	0.05088	4.71E-05	4.394E-09	4.7E-05	1.6E-08	4.9E-08	2.8E-08	2.6E-08	1.2E-08	5.4E-10	4.9E-09	0.0E+00	0.0E+00	0.0E+00	5.5E-09
814 UCAR 557610.26	3776648.23	557610.26, 3776648.2	0.04437	0.04833	4.45E-05	4.174E-09	4.5E-05	1.5E-08	4.7E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.7E-09	0.0E+00	0.0E+00	0.0E+00	5.2E-09
815 UCAR 557630.26	3776648.23	557630.26, 3776648.2	0.04204	0.04618	4.216E-05	3.988E-09	4.2E-05	1.5E-08	4.4E-08	2.6E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
816 UCAR 557650.26	3776648.23	557650.26, 3776648.2	0.03995	0.04412	4.007E-05	3.81E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.6E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
817 UCAR 557670.26	3776648.23	557670.26, 3776648.2	0.03805	0.04213	3.816E-05	3.639E-09	3.8E-05	1.3E-08	4.0E-08	2.3E-08	2.1E-08	9.6E-09	4.4E-10	4.0E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09
818 UCAR 557690.26	3776648.23	557690.26, 3776648.2	0.03632	0.04029	3.643E-05	3.48E-09	3.6E-05	1.3E-08	3.8E-08	2.2E-08	2.0E-08	9.1E-09	4.2E-10	3.8E-09	0.0E+00	0.0E+00	0.0E+00	4.2E-09
819 UCAR 557510.26	3776668.23	557510.26, 3776668.2	0.06	0.06224	6.018E-05	5.375E-09	6E-05	2.1E-08	6.3E-08	3.6E-08	3.3E-08	1.5E-08	7.0E-10	6.3E-09	0.0E+00	0.0E+00	0.0E+00	7.0E-09
820 UCAR 557530.26	3776668.23	557530.26, 3776668.2	0.05613	0.05884	5.629E-05	5.082E-09	5.6E-05	1.9E-08	5.9E-08	3.4E-08	3.1E-08	1.4E-08	6.5E-10	5.9E-09	0.0E+00	0.0E+00	0.0E+00	6.5E-09
821 UCAR 557550.26	3776668.23	557550.26, 3776668.2	0.05268	0.05554	5.283E-05	4.797E-09	5.3E-05	1.8E-08	5.5E-08	3.2E-08	2.9E-08	1.3E-08	6.1E-10	5.5E-09	0.0E+00	0.0E+00	0.0E+00	6.1E-09
822 UCAR 557570.26	3776668.23	557570.26, 3776668.2	0.04959	0.0524	4.973E-05	4.525E-09	5E-05	1.7E-08	5.2E-08	3.0E-08	2.7E-08	1.2E-08	5.7E-10	5.2E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09
823 UCAR 557590.26	3776668.23	557590.26, 3776668.2	0.04678	0.04997	4.692E-05	4.316E-09	4.7E-05	1.6E-08	4.9E-08	2.8E-08	2.6E-08	1.2E-08	5.4E-10	4.9E-09	0.0E+00	0.0E+00	0.0E+00	5.5E-09
824 UCAR 557610.26	3776668.23	557610.26, 3776668.2	0.04429	0.04738	4.442E-05	4.092E-09	4.4E-05	1.5E-08	4.6E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.7E-09	0.0E+00	0.0E+00	0.0E+00	5.2E-09
825 UCAR 557630.26	3776668.23	557630.26, 3776668.2	0.04202	0.04516	4.214E-05	3.9E-09	4.2E-05	1.5E-08	4.4E-08	2.6E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
826 UCAR 557650.26	3776668.23	557650.26, 3776668.2	0.03995	0.04321	4.007E-05	3.732E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.6E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
827 UCAR 557670.26	3776668.23	557670.26, 3776668.2	0.03809	0.04142	3.82E-05	3.577E-09	3.8E-05	1.3E-08	4.0E-08	2.3E-08	2.1E-08	9.6E-09	4.4E-10	4.0E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09
828 UCAR 557690.26	3776668.23	557690.26, 3776668.2	0.03639	0.03966	3.65E-05	3.425E-09	3.6E-05	1.3E-08	3.8E-08	2.2E-08	2.0E-08	9.1E-09	4.2E-10	3.8E-09	0.0E+00	0.0E+00	0.0E+00	4.2E-09
829 UCAR 557510.26	3776688.23	557510.26, 3776688.2	0.05967	0.06115	5.984E-05	5.281E-09	6E-05	2.1E-08	6.3E-08	3.6E-08	3.3E-08	1.5E-08	6.9E-10	6.3E-09	0.0E+00	0.0E+00	0.0E+00	7.0E-09
830 UCAR 557530.26	3776688.23	557530.26, 3776688.2	0.05592	0.05775	5.608E-05	4.988E-09	5.6E-05	1.9E-08	5.9E-08	3.4E-08	3.1E-08	1.4E-08	6.5E-10	5.9E-09	0.0E+00	0.0E+00	0.0E+00	6.5E-09
831 UCAR 557550.26	3776688.23	557550.26, 3776688.2	0.05258	0.05456	5.273E-05	4.712E-09	5.3E-05	1.8E-08	5.5E-08	3.2E-08	2.9E-08	1.3E-08	6.1E-10	5.5E-09	0.0E+00	0.0E+00	0.0E+00	6.1E-09
832 UCAR 557570.26	3776688.23	557570.26, 3776688.2	0.04957	0.05176	4.971E-05	4.47E-09	5E-05	1.7E-08	5.2E-08	3.0E-08	2.7E-08	1.2E-08	5.7E-10	5.2E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09
833 UCAR 557590.26	3776688.23	557590.26, 3776688.2	0.04685	0.04917	4.699E-05	4.247E-09	4.7E-05	1.6E-08	4.9E-08	2.8E-08	2.6E-08	1.2E-08	5.4E-10	4.9E-09	0.0E+00	0.0E+00	0.0E+00	5.5E-09
834 UCAR 557610.26	3776688.23	557610.26, 3776688.2	0.0444	0.04664	4.453E-05	4.028E-09	4.5E-05	1.5E-08	4.7E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.7E-09	0.0E+00	0.0E+00	0.0E+00	5.2E-09
835 UCAR 557630.26	3776688.23	557630.26, 3776688.2	0.04217	0.04454	4.229E-05	3.847E-09	4.2E-05	1.5E-08	4.4E-08	2.6E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
836 UCAR 557650.26	3776688.23	557650.26, 3776688.2	0.04013	0.04251	4.025E-05	3.671E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.7E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
837 UCAR 557670.26	3776688.23	557670.26, 3776688.2	0.03829	0.04058	3.84E-05	3.505E-09	3.8E-05	1.3E-08	4.0E-08	2.3E-08	2.1E-08	9.6E-09	4.4E-10	4.0E-09	0.0E+00	0.0E+00	0.0E+00	4.5E-09
838 UCAR 557690.26	3776688.23	557690.26, 3776688.2	0.03662	0.03876	3.673E-05	3.347E-09	3.7E-05	1.3E-08	3.8E-08	2.2E-08	2.0E-08	9.2E-09	4.2E-10	3.8E-09	0.0E+00	0.0E+00	0.0E+00	4.3E-09
839 UCAR 556172.49	3776517.81	556172.49, 3776517.8	0.02675	0.02848	2.683E-05	2.46E-09	2.7E-05	9.3E-09	2.8E-08	1.6E-08	1.5E-08	6.7E-09	3.1E-10	2.8E-09	0.0E+00	0.0E+00	0.0E+00	3.1E-09
840 UCAR 556192.49	3776517.81	556192.49, 3776517.8	0.02757	0.02953	2.765E-05	2.55E-09	2.8E-05	9.6E-09	2.9E-08	1.7E-08	1.5E-08	6.9E-09	3.2E-10	2.9E-09	0.0E+00	0.0E+00	0.0E+00	3.2E-09
841 UCAR 556212.49	3776517.81	556212.49, 3776517.8	0.02825	0.0305	2.833E-05	2.634E-09	2.8E-05	9.8E-09	3.0E-08	1.7E-08	1.6E-08	7.1E-09	3.3E-10	3.0E-09	0.0E+00	0.0E+00	0.0E+00	3.3E-09
842 UCAR 556232.49	3776517.81	556232.49, 3776517.8	0.02906	0.03161	2.914E-05	2.73E-09	2.9E-05	1.0E-08	3.0E-08	1.8E-08	1.6E-08	7.3E-09	3.4E-10	3.1E-09	0.0E+00	0.0E+00	0.0E+00	3.4E-09
843 UCAR 556252.49	3776517.81	556252.49, 3776517.8	0.02993	0.03281	3.002E-05	2.834E-09	3E-05	1.0E-08	3.1E-08	1.8E-08	1.6E-08	7.5E-09	3.5E-10	3.1E-09	0.0E+00	0.0E+00	0.0E+00	3.5E-09
844 UCAR 556272.49	3776517.81	556272.49, 3776517.8	0.03098	0.03415	3.107E-05	2.949E-09	3.1E-05	1.1E-08	3.2E-08	1.9E-08	1.7E-08	7.8E-09	3.6E-10	3.3E-09	0.0E+00	0.0E+00	0.0E+00	3.6E-09
845 UCAR 556292.49	3776517.81	556292.49, 3776517.8	0.0321	0.03554	3.219E-05	3.069E-09	3.2E-05	1.1E-08	3.4E-08	1.9E-08	1.8E-08	8.1E-09	3.7E-10	3.4E-09	0.0E+00	0.0E+00	0.0E+00	3.7E-09
846 UCAR 556312.49	3776517.81	556312.49, 3776517.8	0.0333	0.03696	3.34E-05	3.192E-09	3.3E-05	1.2E-08	3.5E-08	2.0E-08	1.8E-08	8.4E-09	3.9E-10	3.5E-09	0.0E+00	0.0E+00	0.0E+00	3.9E-09
847 UCAR 556332.49	3776517.81	556332.49, 3776517.8	0.03473	0.03851	3.483E-05	3.326E-09	3.5E-05	1.2E-08	3.6E-08	2.1E-08	1.9E-08	8.7E-09	4.0E-10	3.6E-09	0.0E+00	0.0E+00	0.0E+00	4.1E-09
848 UCAR 556352.49	3776517.81	556352.49, 3776517.8	0.03623	0.04002	3.634E-05	3.456E-09	3.6E-05	1.3E-08	3.8E-08	2.2E-08	2.0E-08	9.1E-09	4.2E-10	3.8E-09	0.0E+00	0.0E+00	0.0E+00	4.2E-09
849 UCAR 556372.49	3776517.81	556372.49, 3776517.8	0.03776	0.04146	3.787E-05	3.581E-09	3.8E-05	1.3E-08	4.0E-08	2.3E-08	2.1E-08	9.5E-09	4.4E-10	4.0E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09
850 UCAR 556392.49	3776517.81	556392.49, 3776517.8	0.03971	0.04315	3.983E-05	3.727E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.6E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.6E-09
851 UCAR 556412.49	3776517.81	556412.49, 3776517.8	0.04165	0.04478	4.177E-05	3.867E-09	4.2E-05	1.4E-08	4.4E-08	2.5E-08	2.3E-08	1.0E-08	4.8E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
852 UCAR 556432.49	3776517.81	556432.49, 3776517.8	0.04361	0.04641	4.374E-05	4.008E-09	4.4E-05	1.5E-08	4.6E-08	2.6E-08	2.4E-08	1.1E-08	5.1E-10	4.6E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09
853 UCAR 556452.49	3776517.81	556452.49, 3776517.8	0.04553	0.04805	4.566E-05	4.15E-09	4.6E-05	1.6E-08	4.8E-08	2.8E-08	2.5E-08	1.1E-08	5.3E-10	4.8E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09
854 UCAR 556472.49	3776517.81	556472.49, 3776517.8	0.04762	0.04991	4.776E-05	4.31E-09	4.8E-05	1.7E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.5E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.6E-09
855 UCAR 556492.49	3776517.81	556492.49, 3776517.8	0.04965	0.05179	4.98E-05	4.473E-09	5E-05	1.7E-08	5.2E-08	3.0E-08	2.7E-08	1.2E-08	5.8E-10	5.2E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09
856 UCAR 556172.49	3776537.81	556172.49, 3776537.8	0.02765	0.02937	2.773E-05	2.537E-09	2.8E-05	9.6E-09	2.9E-08	1.7E-08	1.5E-08	6.9E-09	3.2E-10	2.9E-09	0.0E+00	0.0E+00	0.0E+00	3.2E-09
857 UCAR 556192.49	3776537.81	556192.49, 3776537.8	0.02844	0.03041	2.852E-05	2.626E-09	2.9E-05

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s		Unmitigated			Residential Dose					Risk by Age Group					
	X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
865 UCAR	556352.49	3776537.81	556352.49, 3776537.8	0.03745	0.04161	3.756E-05	3.594E-09	3.8E-05	1.3E-08	3.9E-08	2.3E-08	2.1E-08	9.4E-09	4.3E-10	3.9E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09
866 UCAR	556372.49	3776537.81	556372.49, 3776537.8	0.03905	0.04321	3.916E-05	3.732E-09	3.9E-05	1.4E-08	4.1E-08	2.4E-08	2.1E-08	9.8E-09	4.5E-10	4.1E-09	0.0E+00	0.0E+00	0.0E+00	4.6E-09
867 UCAR	556392.49	3776537.81	556392.49, 3776537.8	0.04082	0.04484	4.094E-05	3.873E-09	4.1E-05	1.4E-08	4.3E-08	2.5E-08	2.2E-08	1.0E-08	4.7E-10	4.3E-09	0.0E+00	0.0E+00	0.0E+00	4.8E-09
868 UCAR	556412.49	3776537.81	556412.49, 3776537.8	0.04298	0.0467	4.311E-05	4.033E-09	4.3E-05	1.5E-08	4.5E-08	2.6E-08	2.4E-08	1.1E-08	5.0E-10	4.5E-09	0.0E+00	0.0E+00	0.0E+00	5.0E-09
869 UCAR	556432.49	3776537.81	556432.49, 3776537.8	0.04516	0.04854	4.529E-05	4.192E-09	4.5E-05	1.6E-08	4.7E-08	2.7E-08	2.5E-08	1.1E-08	5.2E-10	4.7E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09
870 UCAR	556452.49	3776537.81	556452.49, 3776537.8	0.04727	0.05031	4.741E-05	4.345E-09	4.7E-05	1.6E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.5E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.5E-09
871 UCAR	556472.49	3776537.81	556472.49, 3776537.8	0.0496	0.05235	4.975E-05	4.521E-09	5E-05	1.7E-08	5.2E-08	3.0E-08	2.7E-08	1.2E-08	5.8E-10	5.2E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09
872 UCAR	556492.49	3776537.81	556492.49, 3776537.8	0.05189	0.05442	5.204E-05	4.7E-09	5.2E-05	1.8E-08	5.4E-08	3.1E-08	2.9E-08	1.3E-08	6.0E-10	5.4E-09	0.0E+00	0.0E+00	0.0E+00	6.1E-09
873 UCAR	556332.49	3776557.81	556332.49, 3776557.8	0.03729	0.04156	3.74E-05	3.589E-09	3.7E-05	1.3E-08	3.9E-08	2.3E-08	2.1E-08	9.4E-09	4.3E-10	3.9E-09	0.0E+00	0.0E+00	0.0E+00	4.3E-09
874 UCAR	556352.49	3776557.81	556352.49, 3776557.8	0.03871	0.04322	3.882E-05	3.733E-09	3.9E-05	1.3E-08	4.1E-08	2.3E-08	2.1E-08	9.7E-09	4.5E-10	4.1E-09	0.0E+00	0.0E+00	0.0E+00	4.5E-09
875 UCAR	556372.49	3776557.81	556372.49, 3776557.8	0.04048	0.04508	4.06E-05	3.893E-09	4.1E-05	1.4E-08	4.2E-08	2.5E-08	2.2E-08	1.0E-08	4.7E-10	4.3E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
876 UCAR	556392.49	3776557.81	556392.49, 3776557.8	0.04233	0.04689	4.245E-05	4.05E-09	4.2E-05	1.5E-08	4.4E-08	2.6E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
877 UCAR	556412.49	3776557.81	556412.49, 3776557.8	0.04456	0.0489	4.469E-05	4.223E-09	4.5E-05	1.5E-08	4.7E-08	2.7E-08	2.5E-08	1.1E-08	5.2E-10	4.7E-09	0.0E+00	0.0E+00	0.0E+00	5.2E-09
878 UCAR	556432.49	3776557.81	556432.49, 3776557.8	0.04682	0.05085	4.696E-05	4.392E-09	4.7E-05	1.6E-08	4.9E-08	2.8E-08	2.6E-08	1.2E-08	5.4E-10	4.9E-09	0.0E+00	0.0E+00	0.0E+00	5.5E-09
879 UCAR	556452.49	3776557.81	556452.49, 3776557.8	0.04911	0.05278	4.925E-05	4.558E-09	4.9E-05	1.7E-08	5.1E-08	3.0E-08	2.7E-08	1.2E-08	5.7E-10	5.2E-09	0.0E+00	0.0E+00	0.0E+00	5.7E-09
880 UCAR	556472.49	3776557.81	556472.49, 3776557.8	0.05162	0.05494	5.177E-05	4.745E-09	5.2E-05	1.8E-08	5.4E-08	3.1E-08	2.8E-08	1.3E-08	6.0E-10	5.4E-09	0.0E+00	0.0E+00	0.0E+00	6.0E-09
881 UCAR	556492.49	3776557.81	556492.49, 3776557.8	0.05422	0.05725	5.438E-05	4.944E-09	5.4E-05	1.9E-08	5.7E-08	3.3E-08	3.0E-08	1.4E-08	6.3E-10	5.7E-09	0.0E+00	0.0E+00	0.0E+00	6.3E-09
882 UCAR	556332.49	3776577.81	556332.49, 3776577.8	0.03865	0.04314	3.876E-05	3.726E-09	3.9E-05	1.3E-08	4.1E-08	2.3E-08	2.1E-08	9.7E-09	4.5E-10	4.1E-09	0.0E+00	0.0E+00	0.0E+00	4.5E-09
883 UCAR	556352.49	3776577.81	556352.49, 3776577.8	0.04027	0.04508	4.039E-05	3.893E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.7E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
884 UCAR	556372.49	3776577.81	556372.49, 3776577.8	0.04203	0.04705	4.215E-05	4.063E-09	4.2E-05	1.5E-08	4.4E-08	2.6E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
885 UCAR	556392.49	3776577.81	556392.49, 3776577.8	0.04403	0.04912	4.416E-05	4.242E-09	4.4E-05	1.5E-08	4.6E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.6E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09
886 UCAR	556412.49	3776577.81	556412.49, 3776577.8	0.04627	0.05126	4.641E-05	4.427E-09	4.6E-05	1.6E-08	4.9E-08	2.8E-08	2.5E-08	1.2E-08	5.4E-10	4.9E-09	0.0E+00	0.0E+00	0.0E+00	5.4E-09
887 UCAR	556432.49	3776577.81	556432.49, 3776577.8	0.04858	0.05333	4.872E-05	4.606E-09	4.9E-05	1.7E-08	5.1E-08	2.9E-08	2.7E-08	1.2E-08	5.6E-10	5.1E-09	0.0E+00	0.0E+00	0.0E+00	5.7E-09
888 UCAR	556452.49	3776577.81	556452.49, 3776577.8	0.05112	0.05552	5.127E-05	4.795E-09	5.1E-05	1.8E-08	5.4E-08	3.1E-08	2.8E-08	1.3E-08	5.9E-10	5.4E-09	0.0E+00	0.0E+00	0.0E+00	6.0E-09
889 UCAR	556472.49	3776577.81	556472.49, 3776577.8	0.05386	0.05787	5.402E-05	4.998E-09	5.4E-05	1.9E-08	5.6E-08	3.3E-08	3.0E-08	1.4E-08	6.2E-10	5.7E-09	0.0E+00	0.0E+00	0.0E+00	6.3E-09
890 UCAR	556492.49	3776577.81	556492.49, 3776577.8	0.05666	0.06031	5.683E-05	5.209E-09	5.7E-05	2.0E-08	5.9E-08	3.4E-08	3.1E-08	1.4E-08	6.6E-10	6.0E-09	0.0E+00	0.0E+00	0.0E+00	6.6E-09
891 UCAR	556332.49	3776597.81	556332.49, 3776597.8	0.04032	0.04497	4.044E-05	3.884E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.7E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
892 UCAR	556352.49	3776597.81	556352.49, 3776597.8	0.04194	0.04701	4.206E-05	4.06E-09	4.2E-05	1.5E-08	4.4E-08	2.5E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
893 UCAR	556372.49	3776597.81	556372.49, 3776597.8	0.04372	0.04913	4.385E-05	4.243E-09	4.4E-05	1.5E-08	4.6E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.6E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09
894 UCAR	556392.49	3776597.81	556392.49, 3776597.8	0.04561	0.05125	4.574E-05	4.426E-09	4.6E-05	1.6E-08	4.8E-08	2.8E-08	2.5E-08	1.1E-08	5.3E-10	4.8E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09
895 UCAR	556412.49	3776597.81	556412.49, 3776597.8	0.04804	0.05369	4.818E-05	4.637E-09	4.8E-05	1.7E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.6E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.6E-09
896 UCAR	556432.49	3776597.81	556432.49, 3776597.8	0.05046	0.05598	5.061E-05	4.835E-09	5.1E-05	1.8E-08	5.3E-08	3.1E-08	2.8E-08	1.3E-08	5.9E-10	5.3E-09	0.0E+00	0.0E+00	0.0E+00	5.9E-09
897 UCAR	556452.49	3776597.81	556452.49, 3776597.8	0.05303	0.05826	5.319E-05	5.032E-09	5.3E-05	1.8E-08	5.6E-08	3.2E-08	2.9E-08	1.3E-08	6.1E-10	5.6E-09	0.0E+00	0.0E+00	0.0E+00	6.2E-09
898 UCAR	556472.49	3776597.81	556472.49, 3776597.8	0.05597	0.06079	5.613E-05	5.25E-09	5.6E-05	1.9E-08	5.9E-08	3.4E-08	3.1E-08	1.4E-08	6.5E-10	5.9E-09	0.0E+00	0.0E+00	0.0E+00	6.5E-09
899 UCAR	556492.49	3776597.81	556492.49, 3776597.8	0.0592	0.0636	5.937E-05	5.493E-09	5.9E-05	2.1E-08	6.2E-08	3.6E-08	3.3E-08	1.5E-08	6.9E-10	6.2E-09	0.0E+00	0.0E+00	0.0E+00	6.9E-09
900 UCAR	556252.49	3776617.81	556252.49, 3776617.8	0.03649	0.03944	3.66E-05	3.406E-09	3.7E-05	1.3E-08	3.8E-08	2.2E-08	2.0E-08	9.2E-09	4.2E-10	3.8E-09	0.0E+00	0.0E+00	0.0E+00	4.3E-09
901 UCAR	556272.49	3776617.81	556272.49, 3776617.8	0.03767	0.04104	3.778E-05	3.544E-09	3.8E-05	1.3E-08	3.9E-08	2.3E-08	2.1E-08	9.5E-09	4.4E-10	4.0E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09
902 UCAR	556292.49	3776617.81	556292.49, 3776617.8	0.039	0.04283	3.911E-05	3.699E-09	3.9E-05	1.4E-08	4.1E-08	2.4E-08	2.1E-08	9.8E-09	4.5E-10	4.1E-09	0.0E+00	0.0E+00	0.0E+00	4.5E-09
903 UCAR	556312.49	3776617.81	556312.49, 3776617.8	0.0405	0.0448	4.062E-05	3.869E-09	4.1E-05	1.4E-08	4.2E-08	2.5E-08	2.2E-08	1.0E-08	4.7E-10	4.3E-09	0.0E+00	0.0E+00	0.0E+00	4.7E-09
904 UCAR	556332.49	3776617.81	556332.49, 3776617.8	0.04189	0.04673	4.201E-05	4.036E-09	4.2E-05	1.5E-08	4.4E-08	2.5E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
905 UCAR	556352.49	3776617.81	556352.49, 3776617.8	0.04377	0.04908	4.39E-05	4.239E-09	4.4E-05	1.5E-08	4.6E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.6E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09
906 UCAR	556372.49	3776617.81	556372.49, 3776617.8	0.04572	0.05146	4.585E-05	4.444E-09	4.6E-05	1.6E-08	4.8E-08	2.8E-08	2.5E-08	1.1E-08	5.3E-10	4.8E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09
907 UCAR	556392.49	3776617.81	556392.49, 3776617.8	0.04769	0.05379	4.783E-05	4.646E-09	4.8E-05	1.7E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.5E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.6E-09
908 UCAR	556412.49	3776617.81	556412.49, 3776617.8	0.05009	0.05637	5.024E-05	4.868E-09	5E-05	1.7E-08	5.3E-08	3.0E-08	2.8E-08	1.3E-08	5.8E-10	5.3E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09
909 UCAR	556432.49	3776617.81	556432.49, 3776617.8	0.05253	0.05884	5.268E-05	5.082E-09	5.3E-05	1.8E-08	5.5E-08	3.2E-08	2.9E-08	1.3E-08	6.1E-10	5.5E-09	0.0E+00	0.0E+00	0.0E+00	6.1E-09
910 UCAR	556452.49	3776617.81	556452.49, 3776617.8	0.05542	0.06153	5.558E-05	5.314E-09	5.6E-05	1.9E-08	5.8E-08	3.4E-08	3.0E-08	1.4E-08	6.4E-10	5.8E-09	0.0E+00	0.0E+00	0.0E+00	6.5E-09
911 UCAR	556472.49	3776617.81	556472.49, 3776617.8	0.05829	0.06406	5.846E-05	5.532E-09	5.8E-05	2.0E-08	6.1E-08	3.5E-08	3.2E-08	1.5E-08	6.8E-10	6.1E-09	0.0E+00	0.0E+00	0.0E+00	6.8E-09
912 UCAR	556492.49	3776617.81	556492.49, 3776617.8	0.06184	0.06715	6.202E-05	5.799E-09	6.2E-05	2.1E-08	6.5E-08	3.8E-08	3.4E-08	1.6E-08	7.2E-10	6.5E-09	0.0E+00	0.0E+00	0.0E+00	7.2E-09
913 UCAR	556252.49	3776637.81	556252.49, 3776637.8	0.03804	0.04104	3.815E-05	3.544E-09	3.8E-05	1.3E-08	4.0E-08	2.3E-08	2.1E-08	9.5E-09	4.4E-10	4.0E-09	0.0E+00	0.0E+00	0.0E+00	4.4E-09
914 UCAR	556272.49	3776637.81	556272.49, 3776637.8	0.03954	0.04292	3.966E-05	3.707E-09	4E-05	1.4E-08	4.1E-08	2.4E-08	2.2E-08	9.9E-09	4.6E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.6E-09
915 UCAR	556292.49	3776637.81	556292.49, 3776637.8	0.04076	0.04466	4.088E-05	3.857E-09	4.1E-05	1.4E-08	4.3E-08	2.5E-08	2.2E-08	1.0E-08	4.7E-10	4.3E-09	0.0E+00	0.0E+00	0.0E+00	4.8E-09
916 UCAR	556312.49	3776637.81	556312.49, 3776637.8	0.0422	0.04663	4.232E-05	4.027E-09	4.2E-05	1.5E-08	4.4E-08	2.6E-08	2.3E-08	1.1E-08	4.9E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
917 UCAR	556332.49	3776637.81	556332.49, 3776637.8	0.04397	0.04893	4.41E-05	4.226E-09	4.4E-05	1.5E-08	4.6E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.6E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09
918 UCAR	556352.49	3776637.81	556352.49, 3776637.8	0.04571	0.05125	4.584E-05	4.426E-09	4.6E-05	1.6E-08	4.8E-08	2.8E-08	2.5E-08	1.1E-08	5.3E-10	4.8E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09
919 UCAR	556372.49	3776637.81	556372.49, 3776637.8	0.0478	0.05386	4.794E-05	4.652E-09	4.8E-05	1.7E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.5E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.6E-09
920 UCAR	556392.49	3776637.81	556392.49, 3776637.8	0.0498	0.05637	4.995E-05	4.868E-09	5E-05	1.7E-08	5.2E-08	3.0E-08	2.7E-08	1.3E-08	5.8E-10	5.2E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09
921 UCAR	556412.49	3776637.81	556412.49, 3776637.8	0.0522	0.05912	5.235E-05	5.106E-09	5.2E-05	1.8E-08	5.5E-08	3.2E-08	2.9E-08	1.3E-08	6.1E-10	5.5E-09	0.0E+00	0.0E+00	0.0E+00	6.1E-09
922 UCAR	556432.49	3776637.81	556432.49, 3776637.8	0.05483	0.06193	5.499E-05	5.349E-09	5.5E-05	1.9E-08	5.7E-08	3.3E-08	3.0E-08	1.4E-08	6.4E-10	5.8E-09	0.0E+00	0.0E+00	0.0E+00	6.4E-09
923 UCAR	556452.49	3776637.81	556452.49, 3776637.8	0.05771	0.06478	5.788E-05	5.595E-09	5.8E-05	2.0E-08	6.1E-08	3.5E-08	3.2E-08	1.4E-08	6.7E-10	6.1E-09	0.0E+00	0.0E+00	0.0E+00	6.7E-09
924 UCAR	556472.49	3776637.81	556472.49, 3776637.8	0.06098	0.06779	6.116E-05	5.855E-09	6.1E-05	2.1E-08	6.4E-08	3.7E-08	3.4E-08	1.5E-08	7.1E-10	6.4E-09	0.0E+00	0.0E+00	0.0E+00	7.1E-09
925 UCAR	556492.49	3776637.81	556492.49, 3776637.8	0.06461	0.071	6.48E-05	6.132E-09	6.5E-05	2.2E-08	6.8E-08	3.9E-08	3.6E-08	1.6E-08	7.5E-10	6.8E-09	0.0E+00	0.0E+00	0.0E+00	7.5E-09
926 UCAR	556252.49	3776657.81	556252.49, 3776657.8	0.0398	0.04282	3.992E-05	3.698E-09	4E-05	1.4E-08	4.2E-08	2.4E-08	2.2E-08	1.0E-08	4.6E-10	4.2E-09	0.0E+00	0.0E+00	0.0E+00	4.6E-09
927 UCAR	556272.49	3776657.81	556272.49, 3776657.8	0.04131	0.04476	4.143E-05	3.866E-09	4.1E-05	1.4E-08	4.3E-08	2.5E-08	2.3E-08	1.0E-08	4.8E-10	4.3E-09	0.0E+00	0.0E+00	0.0E+00	4.8E-09
928 UCAR	556292.49	3776657.81	556292.49, 3776657.8	0.04286	0.04679	4.299E-05	4.041E-09	4.3E-05	1.5E-08	4.5E-08	2.6E-08	2.4E-08	1.1E-08	5.0E-10	4.5E-09	0.0E+00	0.0E+00	0.0E+00	5.0E-09
929 UCAR	556312.49	3776657.81	556312.49, 3776657.8	0.04407	0.04863	4.42E-05	4.2E-09	4.4E-05	1.5E-08	4.6E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.6E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09
930 UCAR	556332.49	3776657.81	556332.49, 3776657.8	0.04604	0.05115	4.617E-05	4.418E-09	4.6E-05	1.6E-08	4.8E-08	2.8E-08	2.5E-08	1.2E-08	5.3E-10	4.8E-09	0.0E+00	0.0E+00	0.0E+00	5.4E-09
931 UCAR	556352.49	3776657.81	556352.49, 3776657.8	0.04799	0.05372	4.813E-05	4.639E-09	4.8E-05	1.7E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.6E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.6E-09
932 UCAR	556372.49	3776657.81	556372.49, 3776657.8	0.05011	0.05647	5.026E-05	4.877E-09	5E-05	1.7E-08	5.3E-08	3.0E-08	2.8E-08	1.3E-08	5.8E-10	5.3E-09	0.0E+00	0.0E+00	0.0E+00	5.8E-09
933 UCAR	556392.49	3776657.81	556392.49, 3776657.8	0.05207	0.05909	5.222E-05	5.103E-09	5.2E-05	1.8E-08	5.5E-08	3.2E-08	2.9E-08	1.3E-08	6.0E-10	5.5E-09	0.0E+00	0.0E+00	0.0E+00	6.1E-09
934 UCAR	556412.49	3776657.81	556412.49, 3776657.8	0.05449	0.06204	5.465E-05	5.358E-09	5.5E-05	1.9E-08	5.7E-08	3.3E-08	3.0E-08	1.4E-08	6.3E-10	5.7E-09	0.0E+00	0.0E+00	0.0E+00	6.4E-09
935 UCAR	556432.49	3776657.81	556432.49, 3776657.8	0.05721	0.06512	5.738E-05	5.624E-09	5.7E-05	2.0E-08	6.0E-08	3.5E-08	3.1E-08	1.4E-08	6.6E-10	6.0E-09	0.0E+00	0.0E+00	0.0E+00	6.7E-09
936 UCAR	556452.49	3776657.81	556452.49, 3776657.8	0.06028	0.06834	6.046E-05	5.902E-09	6E-05	2.1E-08	6.3E-08	3.7E-08	3.3E-08	1.5E-08	7.0E-10	6.3E-09	0.0E+00	0.0E+00	0.0E+00	7.0E-09
937 UCAR	556472.49	3776657.81	556472.49, 3776657.8	0.06369	0.07165	6.388E-05	6.188E-09	6.4E-05	2.2E-08	6.7E-08	3.9E-08	3.5E-08	1.6E-08	7.4E-10	6.7E-09	0.0E+00	0.0E+00	0.0E+00	7.4E-09
938 UCAR	556492.49	3776657.81	556492.49, 3776657.8	0.06759	0.07521	6.779E-05	6.495E-09	6.8E-05	2.3E-08	7.1E-08	4.1E-08	3.7E-08	1.7E-08	7.8E-10	7.1E-09	0.0E+00	0.0E+00	0.0E+00	7.9E-09
939 UCAR	556252.49	3776677.81	556252.49, 3776677.8	0.04168	0.04474	4.18E-05	3.864E-09	4.2E-05	1.4E-08	4.4E-08	2.5E-08	2.3E-08	1.0E-08	4.8E-10	4.4E-09	0.0E+00	0.0E+00	0.0E+00	4.9E-09
940 UCAR	556272.49	3776677.81	556272.49, 3776677.8	0.04296	0.04654	4.309E-05	4.019E-09	4.3E-05	1.5E-08	4.5E-08	2.6E-08	2.4E-08	1.1E-08	5.0E-10	4.5E-09	0.0E+00	0.0E+00	0.0E+00	5.0E-09
941 UCAR	556292.49	3776677.81	556292.49, 3776677.8	0.0446	0.04869	4.473E-05	4.205E-09	4.5E-05	1.5E-08	4.7E-08	2.7E-08	2.5E-08	1.1E-08	5.2E-10	4.7E-09	0.0E+00	0.0E+00	0.0E+00	5.2E-09
942 UCAR	556312.49	3776677.81	556312.49, 3776677.8	0.04636	0.05102	4.65E-05	4.406E-09	4.6E-05	1.6E-08	4.9E-08	2.8E-08	2.6E-08	1.2E-08	5.4E-10	4.9E-09	0.0E+00	0.0E+00	0.0E+00	5.4E-09
943 UCAR	556332.49	3776677.81	556332.49, 3776677.8	0.04828	0.05356	4.842E-05	4.626E-09	4.8E-05	1.7E-08	5.1E-08	2.9E-08	2.7E-08	1.2E-08	5.6E-10	5.1E-09	0.0E+00	0.0E+00	0.0E+00	5.6E-09
944 UCAR	556352.49	3776677.81	556352.49, 3776677.8	0.05039	0.05633	5.054E-05	4.865E-09	5.1E-05	1.7E-08	5.3E-08	3.1E-08	2.8E-08	1.3E-08	5.8E-10	5.3E-09	0.0E+00	0.0E+00	0.0E+00	5.9E-09
945 UCAR	556372.49	3776677.81	556372.49, 3776677.8	0.05252	0.05919	5.267E-05	5.112E-09	5.3E-05	1.8E-08	5.5E-08	3.2E-08	2.9E-08	1.3E-08	6.1E-10	5.5E-09	0.0E+00	0.0E+00	0.0E+00	6.1E-09
946 UCAR	556392.49	3776677.81	556392.49, 3776677.8	0.05465	0.06209	5.481E-05	5.362E-09	5.5E-05	1.9E-08	5.7E-08	3.3E-08	3.0E-08	1.4E-08	6.3E-10	5.7E-09	0.0E+00	0.0E+00	0.0E+00	6.4E-09
947 UCAR	556412.49	3776677.81	556412.49, 3776677.8	0.05731	0.06541	5.748E-05	5.649E-09	5.7E-05	2.0E-08	6.0E-08	3.5E-08	3.2E-08	1.4E-08	6.6E-10	6.0E-09	0.0E+00	0.0E+00	0.0E+00	6.7E-09
948 UCAR	556432.49	3776677.81	556432.49, 3776677.8	0.0599	0.06862	6.008E-05	5.926E-09	6E-05	2.1E-08	6.3E-08	3.6E-08	3.3E-08	1.5E-08	6.9E-10	6.3E-09	0.0E+00	0.0E+00	0.0E+00	7.0E-09
949 UCAR	556452.49	3776677.81	556452.49, 3776677.8	0.06304	0.07212	6.322E-05	6.229E-09	6.3E-05	2.2E-08	6.6E-08	3.8E-08	3.5E-08	1.6E-08	7.3E-10	6.6E-09	0.0E+00	0.0E+00	0.0E+00	7.4E-09
950 UCAR	556472.49	3776677.81	556472.49, 3776677.8	0.06672	0.0759	6.692E-05	6.555E-09	6.7E-05	2.3E-08	7.0E-08	4.0E-08	3.7E-08	1.7E-08	7.7E-10	7.0E-09	0.0E+00	0.0E+00	0.0E+00	7.8E-09
951 UCAR	556492.49	3776677.81	556492.49, 3776677.8	0.07083	0.07982	7.104E-05	6.894E-09	7.1E-05	2.5E-08	7.4E-08	4.3E-08	3.9E-08	1.8E-08	8.2E-10	7.4E-09	0.0E+00	0.0E+00	0.0E+00	8.3E-09
952 UCAR	556252.49	3776697.81	556252.49, 3776697.8	0.04371	0.04681	4.384E-05	4.043E-09	4.4E-05	1.5E-08	4.6E-08	2.7E-08	2.4E-08	1.1E-08	5.1E-10	4.6E-09	0.0E+00	0.0E+00

Construction Risk

	On-Site	Off-Site
Emissions Rate (g/s):	0.0010029	8.64E-08

Discrete Receptor ID					Concentration [µg/m^3] at 1 g/s		Unmitigated		
		X	Y	X, Y	On-Site	Off-Site	On-Site	Off-Site	Total
961	UCAR	556252.49	3776717.81	556252.49, 3776717.8	0.04545	0.04869	4.558E-05	4.205E-09	4.6E-05
962	UCAR	556272.49	3776717.81	556272.49, 3776717.8	0.04727	0.05101	4.741E-05	4.405E-09	4.7E-05
963	UCAR	556372.49	3776717.81	556372.49, 3776717.8	0.05811	0.06544	5.828E-05	5.652E-09	5.8E-05
964	UCAR	556392.49	3776717.81	556392.49, 3776717.8	0.06026	0.06862	6.044E-05	5.926E-09	6E-05
965	UCAR	556412.49	3776717.81	556412.49, 3776717.8	0.06326	0.07257	6.344E-05	6.267E-09	6.3E-05
966	UCAR	556432.49	3776717.81	556432.49, 3776717.8	0.06624	0.07652	6.643E-05	6.609E-09	6.6E-05
967	UCAR	556452.49	3776717.81	556452.49, 3776717.8	0.06954	0.0807	6.974E-05	6.97E-09	7E-05
968	UCAR	556472.49	3776717.81	556472.49, 3776717.8	0.07391	0.08564	7.413E-05	7.396E-09	7.4E-05
969	UCAR	556492.49	3776717.81	556492.49, 3776717.8	0.0782	0.09029	7.843E-05	7.798E-09	7.8E-05
970	1	556267.4	3776875.81	556267.4, 3776875.81	0.06798	0.07674	6.818E-05	6.628E-09	6.8E-05
971	1	556239.03	3776853.02	556239.03, 3776853.0	0.05977	0.06646	5.994E-05	5.74E-09	6E-05
972	1	556178.76	3776751.21	556178.76, 3776751.2	0.04351	0.04568	4.364E-05	3.945E-09	4.4E-05
973	1	556154.45	3776774.51	556154.45, 3776774.5	0.0428	0.04543	4.293E-05	3.924E-09	4.3E-05
974	1	556119.5	3776705.11	556119.5, 3776705.11	0.03576	0.03693	3.586E-05	3.189E-09	3.6E-05
975	1	556146.51	3777267.93	556146.51, 3777267.9	0.13201	0.16582	0.0001324	1.432E-08	0.00013
976	1	556151	3777234.88	556151, 3777234.88	0.12197	0.15744	0.0001223	1.36E-08	0.00012
977	1	556144.93	3777179.58	556144.93, 3777179.58	0.10121	0.13346	0.0001015	1.153E-08	0.0001
978	1	556205.18	3777236.46	556205.18, 3777236.4	0.14926	0.19772	0.0001497	1.708E-08	0.00015
979	1	556218	3777200.04	556218, 3777200.04	0.13887	0.18898	0.0001393	1.632E-08	0.00014
980	1	556774.37	3777347.57	556774.37, 3777347.5	1.43665	2.51215	0.0014409	2.17E-07	0.00144

Residential Dose					Risk by Age Group					
3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
1.6E-08	4.8E-08	2.8E-08	2.5E-08	1.1E-08	5.3E-10	4.8E-09	0.0E+00	0.0E+00	0.0E+00	5.3E-09
1.6E-08	5.0E-08	2.9E-08	2.6E-08	1.2E-08	5.5E-10	5.0E-09	0.0E+00	0.0E+00	0.0E+00	5.5E-09
2.0E-08	6.1E-08	3.5E-08	3.2E-08	1.5E-08	6.7E-10	6.1E-09	0.0E+00	0.0E+00	0.0E+00	6.8E-09
2.1E-08	6.3E-08	3.7E-08	3.3E-08	1.5E-08	7.0E-10	6.3E-09	0.0E+00	0.0E+00	0.0E+00	7.0E-09
2.2E-08	6.6E-08	3.8E-08	3.5E-08	1.6E-08	7.3E-10	6.6E-09	0.0E+00	0.0E+00	0.0E+00	7.4E-09
2.3E-08	6.9E-08	4.0E-08	3.6E-08	1.7E-08	7.7E-10	7.0E-09	0.0E+00	0.0E+00	0.0E+00	7.7E-09
2.4E-08	7.3E-08	4.2E-08	3.8E-08	1.7E-08	8.1E-10	7.3E-09	0.0E+00	0.0E+00	0.0E+00	8.1E-09
2.6E-08	7.7E-08	4.5E-08	4.1E-08	1.9E-08	8.6E-10	7.8E-09	0.0E+00	0.0E+00	0.0E+00	8.6E-09
2.7E-08	8.2E-08	4.7E-08	4.3E-08	2.0E-08	9.1E-10	8.2E-09	0.0E+00	0.0E+00	0.0E+00	9.1E-09
2.4E-08	7.1E-08	4.1E-08	3.7E-08	1.7E-08	7.9E-10	7.1E-09	0.0E+00	0.0E+00	0.0E+00	7.9E-09
2.1E-08	6.3E-08	3.6E-08	3.3E-08	1.5E-08	6.9E-10	6.3E-09	0.0E+00	0.0E+00	0.0E+00	7.0E-09
1.5E-08	4.6E-08	2.6E-08	2.4E-08	1.1E-08	5.0E-10	4.6E-09	0.0E+00	0.0E+00	0.0E+00	5.1E-09
1.5E-08	4.5E-08	2.6E-08	2.4E-08	1.1E-08	5.0E-10	4.5E-09	0.0E+00	0.0E+00	0.0E+00	5.0E-09
1.2E-08	3.7E-08	2.2E-08	2.0E-08	9.0E-09	4.1E-10	3.8E-09	0.0E+00	0.0E+00	0.0E+00	4.2E-09
4.6E-08	1.4E-07	8.0E-08	7.3E-08	3.3E-08	1.5E-09	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
4.2E-08	1.3E-07	7.4E-08	6.7E-08	3.1E-08	1.4E-09	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
3.5E-08	1.1E-07	6.1E-08	5.6E-08	2.5E-08	1.2E-09	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
5.2E-08	1.6E-07	9.1E-08	8.2E-08	3.7E-08	1.7E-09	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
4.8E-08	1.5E-07	8.4E-08	7.6E-08	3.5E-08	1.6E-09	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
5.0E-07	1.5E-06	8.7E-07	7.9E-07	3.6E-07	1.7E-08	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (MD)
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, g/mile for RUNEX, PMBW and PMTW, mph for Speed, kWh/mile for Energy Consumption, gallon/mile for Fuel Consun

	Idle (g/trip)	5 mph (g/mi)	55 mph (g/mi)
Weighted Rates	0.001816642	0.020907803	0.019923858

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Population	Total VMT	Trips	PM10_IDLEX	
San Bernar	2026	HHDT	Aggregate	Aggregate	Diesel	13602.3	2771005.673	284510.6973	0.043848843	596.445
San Bernar	2026	HHDT	Aggregate	Aggregate	Electricity	127.8697	22710.61538	2649.56932	0	0
San Bernar	2026	HHDT	Aggregate	Aggregate	Gasoline	1.899684	174.3616545	38.00887198	0	0
San Bernar	2026	HHDT	Aggregate	Aggregate	Natural Ga	37.04411	2570.082115	423.1566809	0.048193113	1.785271
San Bernar	2026	LHDT2	Aggregate	Aggregate	Diesel	4658.884	175787.53	58602.90018	0.027553284	128.3676
San Bernar	2026	LHDT2	Aggregate	Aggregate	Electricity	48.36806	3176.476456	641.6201589	0	0
San Bernar	2026	LHDT2	Aggregate	Aggregate	Gasoline	1661.455	61116.2607	24753.20342	0	0
San Bernar	2026	MHDT	Aggregate	Aggregate	Diesel	2842.733	163441.0013	37908.74562	0.017614371	50.07296
San Bernar	2026	MHDT	Aggregate	Aggregate	Electricity	52.39361	4021.365345	774.8201403	0	0
San Bernar	2026	MHDT	Aggregate	Aggregate	Gasoline	866.6573	63825.99852	17340.07842	0	0
San Bernar	2026	MHDT	Aggregate	Aggregate	Natural Ga	9.76282	441.6160368	50.08326724	0.030132396	0.294177

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Total VMT	PM10_RUNEX	
San Bernar	2026	HHDT	Aggregate	5	Gasoline	0.00231	0.013009539	3.00527E-05
San Bernar	2026	HHDT	Aggregate	5	Diesel	19.04739	0.011558706	0.220163185
San Bernar	2026	HHDT	Aggregate	5	Electricity	0.156179	0	0
San Bernar	2026	HHDT	Aggregate	5	Natural Ga	0.023831	0.007723198	0.000184053
San Bernar	2026	LHDT2	Aggregate	5	Gasoline	1.722957	0.003641248	0.006273713
San Bernar	2026	LHDT2	Aggregate	5	Diesel	3.047648	0.09061273	0.276155717
San Bernar	2026	LHDT2	Aggregate	5	Electricity	0.065246	0	0
San Bernar	2026	MHDT	Aggregate	5	Gasoline	2.443929	0.007153386	0.017482367
San Bernar	2026	MHDT	Aggregate	5	Diesel	5.370655	0.027823158	0.149428576
San Bernar	2026	MHDT	Aggregate	5	Electricity	0.142532	0	0
San Bernar	2026	MHDT	Aggregate	5	Natural Ga	0.012138	0.00493869	5.99466E-05

Region	Calendar Y	Vehicle Cat	Model Yea	Speed	Fuel	Total VMT	PM10_RUNEX	
San Bernar	2026	HHDT	Aggregate	55	Diesel	103798.6	0.022402751	2325.374972
San Bernar	2026	HHDT	Aggregate	55	Electricity	849.1682	0	0
San Bernar	2026	HHDT	Aggregate	55	Gasoline	6.817565	0.002010155	0.013704362
San Bernar	2026	HHDT	Aggregate	55	Natural Ga	98.13166	0.001320559	0.129588684
San Bernar	2026	LHDT2	Aggregate	55	Diesel	10350.32	0.019779817	204.727485
San Bernar	2026	LHDT2	Aggregate	55	Electricity	189.8768	0	0
San Bernar	2026	LHDT2	Aggregate	55	Gasoline	3784.104	0.000842045	3.186384798
San Bernar	2026	MHDT	Aggregate	55	Diesel	8203.367	0.008452438	69.33845252
San Bernar	2026	MHDT	Aggregate	55	Electricity	203.9031	0	0
San Bernar	2026	MHDT	Aggregate	55	Gasoline	3258.968	0.000781073	2.545492832
San Bernar	2026	MHDT	Aggregate	55	Natural Ga	21.25181	0.00085467	0.018163281

Operational Emissions Rates

On-Site Truck and TRU

	Speed (mph)	Trips (veh/day)	Truck (g/mi)	TRU (g/hr)	Length (meters)	Length (mi)	Truck (g/day)	TRU (g/day)	Emission Rate (g/sec)
On-Site Travel	5	2	0.020907803	0	509.8	0.316774936	0.013246136	0	1.53312E-07

	Speed (mph)	Trips (veh/day)	Truck (g/trip)	TRU (g/hr)	Duration (hr/veh)		Truck (g/day)	TRU (g/day)	Emission Rate (g/sec)
On-Site Idle	Idle	1	0.001816642	0	0.25		0.000454161	0	5.25649E-09

Off-Site (AERMOD Source Group) Truck+TRU	(mph)	(veh/day)	Truck (g/mi)	TRU (g/hr)	(meters)	(mi)	Truck (g/day)	TRU (g/day)	Total (g/sec)	AERMOD Unitized Rate (g/sec)
29 Palms Highway	55	2	0.019923858	0	127.8	0.079411214	0.003164356	0	3.66245E-08	1

Source: Emissions rates from CARB EMFAC2021 and CARB OFFROAD.

Fueling Station - TOG Emissions Factors and Annual Emissions

Emissions Source	Annual Gasoline Throughput (gallons/year)	TOG Emissions Factor (lb/1,000 gallon)[1]	TOG Annual Emissions (lbs/year)	Benzene Emission Rate (lbs/hr)	Benzene Emission Rate (g/s)	
	5,000,000					
Fueling (Non-ORVR Vehicles)		0.42	2,100.0	0.000719178	9.06E-05	
Fueling (ORVR Vehicles)		0.021	105.0	3.59589E-05	4.53E-06	
Hose Permeation (Gasoline Hose Losses)		0.009	45.0	1.5411E-05	1.94E-06	
Total Transfer and Pressure Losses			*2,250.0*	*0.000770548*	***9.71E-05***	Fueling and Hose Permeation (Volume Source)
Fueling - Spillage		0.24	1,200.0	0.001369863	**1.73E-04**	Spillage (Volume Source)
Loading (Bulk Transfer Losses)		0.15	750.0	0.000256849	**3.24E-05**	Loading (Point Source)
Breathing (Pressure Driven Losses)		0.024	120.0	4.10959E-05	**5.18E-06**	(Breathing (Point Source)
				0.002438356		

Source: CAPCOA and CARB, Gasoline Service Station Industrywide Risk Assessment Technical Guidance, Table 7, September 2021.

The emission factors do not reflect control technologies required by any Vapor Recovery regulations later than 2013. Regulations later than 2013 include:

- Certification Procedure for Vapor Recovery Systems for Enhanced Conventional (ECO) Nozzles and Low Permeation Conventional Hoses for Use at Gasoline Dispensing Facilities (CP-207)
- Certification Procedure for Vapor Recovery Systems at Gasoline Dispensing Facilities (CP-201) Amended Certification Procedure for Enhanced Conventional (ECO) Nozzles and Low Permeation Conventional Hoses for Use at Gasoline Dispensing Facilities (CP-207)

Operational Delivery Truck Risk

	OnSite Travel	OnSite Idle	Off-Site Travel
Emissions Rate (g/s):	1.53312E-07	5.25649E-09	3.66E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s			Unmitigated				Residential Dose						Risk by Age Group					
	X	Y	X, Y	OnSite Travel	OnSite Idle	Off-Site Travel	OnSite Travel	OnSite Idle	Off-Site Travel	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
1	1	556521.71	3777341.57 556521.71, 3777341.57	7.76397	6.18456	9.31344	1.19031E-06	3.25091E-08	3.411E-07	1.6E-06	5.4E-10	1.6E-09	9.5E-10	8.6E-10	3.9E-10	1.8E-11	4.4E-10	2.2E-10	2.0E-10	6.2E-11	9.5E-10
2	1	556539.9	3777344.94 556539.9, 3777344.94	8.31485	6.71998	9.87308	1.27476E-06	3.53235E-08	3.61596E-07	1.7E-06	5.8E-10	1.7E-09	1.0E-09	9.2E-10	4.2E-10	1.9E-11	4.7E-10	2.4E-10	2.2E-10	6.6E-11	1.0E-09
3	1	556591.78	3777345.39 556591.78, 3777345.39	10.40759	8.79404	11.79258	1.59561E-06	4.62258E-08	4.31897E-07	2.1E-06	7.2E-10	2.2E-09	1.3E-09	1.1E-09	5.2E-10	2.4E-11	5.8E-10	3.0E-10	2.7E-10	8.2E-11	1.3E-09
4	1	556630.62	3777349.66 556630.62, 3777349.66	11.87774	10.69533	12.78052	1.821E-06	5.62199E-08	4.6808E-07	2.3E-06	8.1E-10	2.5E-09	1.4E-09	1.3E-09	5.9E-10	2.7E-11	6.5E-10	3.4E-10	3.1E-10	9.3E-11	1.4E-09
5	1	556684.29	3777349.43 556684.29, 3777349.43	14.34183	14.20907	15.06099	2.19877E-06	7.46898E-08	5.51601E-07	2.8E-06	9.8E-10	3.0E-09	1.7E-09	1.5E-09	7.1E-10	3.3E-11	7.9E-10	4.1E-10	3.7E-10	1.1E-10	1.7E-09
6	1	556905.58	3777351.19 556905.58, 3777351.19	13.39454	16.36538	53.51648	2.05354E-06	8.60244E-08	1.96001E-06	4.1E-06	1.4E-09	4.3E-09	2.5E-09	2.2E-09	1.0E-09	4.7E-11	1.1E-09	5.9E-10	5.3E-10	1.6E-10	2.5E-09
7	1	556920.93	3777350.82 556920.93, 3777350.82	12.42965	15.18676	50.643	1.90561E-06	7.9829E-08	1.85477E-06	3.8E-06	1.3E-09	4.0E-09	2.3E-09	2.1E-09	9.6E-10	4.4E-11	1.1E-09	5.5E-10	5.0E-10	1.5E-10	2.3E-09
8	1	556942.87	3777350.09 556942.87, 3777350.09	11.05726	13.52734	42.99856	1.69521E-06	7.11063E-08	1.5748E-06	3.3E-06	1.2E-09	3.5E-09	2.0E-09	1.8E-09	8.4E-10	3.9E-11	9.3E-10	4.8E-10	4.4E-10	1.3E-10	2.0E-09
9	1	556996.26	3777348.26 556996.26, 3777348.26	8.12669	9.93883	22.1796	1.24592E-06	5.22433E-08	8.12316E-07	2.1E-06	7.3E-10	2.2E-09	1.3E-09	1.2E-09	5.3E-10	2.4E-11	5.9E-10	3.0E-10	2.8E-10	8.3E-11	1.3E-09
10	1	557096.81	3777357.77 557096.81, 3777357.77	4.5168	5.38617	7.50677	6.92479E-07	2.83123E-08	2.74932E-07	1E-06	3.4E-10	1.0E-09	6.0E-10	5.5E-10	2.5E-10	1.2E-11	2.8E-10	1.4E-10	1.3E-10	3.9E-11	6.0E-10
11	1	557115.83	3777363.62 557115.83, 3777363.62	4.05987	4.80988	6.41045	6.22426E-07	2.52831E-08	2.34779E-07	8.8E-07	3.1E-10	9.2E-10	5.3E-10	4.8E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.2E-10	3.5E-11	5.3E-10
12	1	557129.36	3777361.43 557129.36, 3777361.43	3.84404	4.54128	5.87912	5.89337E-07	2.38712E-08	2.1532E-07	8.3E-07	2.9E-10	8.7E-10	5.0E-10	4.5E-10	2.1E-10	9.6E-12	2.3E-10	1.2E-10	1.1E-10	3.3E-11	5.0E-10
13	1	557230.65	3777363.99 557230.65, 3777363.99	2.56401	2.95696	3.33956	3.93093E-07	1.55432E-08	1.2231E-07	5.3E-07	1.8E-10	5.5E-10	3.2E-10	2.9E-10	1.3E-10	6.1E-12	1.5E-10	7.6E-11	6.9E-11	2.1E-11	3.2E-10
14	1	556466.22	3776816.07 556466.22, 3776816.07	1.38555	1.14561	1.21859	2.12421E-07	6.02189E-09	4.46302E-08	2.6E-07	9.1E-11	2.7E-10	1.6E-10	1.4E-10	6.6E-11	3.0E-12	7.3E-11	3.8E-11	3.4E-11	1.0E-11	1.6E-10
15	1	556407.87	3776826.19 556407.87, 3776826.19	1.27353	1.06509	1.12906	1.95247E-07	5.59863E-09	4.13512E-08	2.4E-07	8.4E-11	2.5E-10	1.5E-10	1.3E-10	6.1E-11	2.8E-12	6.8E-11	3.5E-11	3.2E-11	9.6E-12	1.5E-10
16	1	556381.07	3776807.14 556381.07, 3776807.14	1.14651	0.9698	1.0167	1.75773E-07	5.09774E-09	3.72361E-08	2.2E-07	7.6E-11	2.3E-10	1.3E-10	1.2E-10	5.5E-11	2.5E-12	6.1E-11	3.1E-11	2.8E-11	8.6E-12	1.3E-10
17	1	556404.29	3776771.52 556404.29, 3776771.52	1.06525	0.90353	0.94352	1.63315E-07	4.74939E-09	3.45559E-08	2E-07	7.0E-11	2.1E-10	1.2E-10	1.1E-10	5.1E-11	2.3E-12	5.7E-11	2.9E-11	2.6E-11	8.0E-12	1.2E-10
18	1	556465.21	3776739.51 556465.21, 3776739.51	1.06587	0.90739	0.93389	1.6341E-07	4.76968E-09	3.42032E-08	2E-07	7.0E-11	2.1E-10	1.2E-10	1.1E-10	5.1E-11	2.3E-12	5.7E-11	2.9E-11	2.6E-11	8.0E-12	1.2E-10
19	1	556396.1	3776739.93 556396.1, 3776739.93	0.95733	0.81931	0.84854	1.4677E-07	4.30669E-09	3.10773E-08	1.8E-07	6.3E-11	1.9E-10	1.1E-10	1.0E-10	4.6E-11	2.1E-12	5.1E-11	2.6E-11	2.4E-11	7.2E-12	1.1E-10
20	1	556323.99	3777265.43 556323.99, 3777265.43	3.43926	2.73541	3.69554	5.27279E-07	1.43786E-08	1.35347E-07	6.8E-07	2.3E-10	7.1E-10	4.1E-10	3.7E-10	1.7E-10	7.8E-12	1.9E-10	9.7E-11	8.8E-11	2.7E-11	4.1E-10
21	1	556330.6	3777233.99 556330.6, 3777233.99	3.47147	2.72841	3.64995	5.32217E-07	1.43419E-08	1.33678E-07	6.8E-07	2.4E-10	7.1E-10	4.1E-10	3.7E-10	1.7E-10	7.9E-12	1.9E-10	9.8E-11	8.9E-11	2.7E-11	4.1E-10
22	1	556321.08	3777200.43 556321.08, 3777200.43	3.21899	2.54475	3.23639	4.93509E-07	1.33764E-08	1.18531E-07	6.3E-07	2.2E-10	6.5E-10	3.8E-10	3.4E-10	1.6E-10	7.2E-12	1.7E-10	9.0E-11	8.2E-11	2.5E-11	3.8E-10
23	1	556275.11	3777267.81 556275.11, 3777267.81	2.85824	2.32883	3.02096	4.38202E-07	1.22415E-08	1.10641E-07	5.6E-07	1.9E-10	5.9E-10	3.4E-10	3.1E-10	1.4E-10	6.5E-12	1.6E-10	8.1E-11	7.3E-11	2.2E-11	3.4E-10
24	1	556278.28	3777233.46 556278.28, 3777233.46	2.8323	2.29095	2.94745	4.34225E-07	1.20424E-08	1.07949E-07	5.5E-07	1.9E-10	5.8E-10	3.4E-10	3.0E-10	1.4E-10	6.4E-12	1.5E-10	8.0E-11	7.2E-11	2.2E-11	3.3E-10
25	UCAR	556509.4	3777373.38 556509.4, 3777373.38	6.55926	5.50317	7.53545	1.00561E-06	2.89273E-08	2.75982E-07	1.3E-06	4.5E-10	1.4E-09	7.9E-10	7.2E-10	3.3E-10	1.5E-11	3.7E-10	1.9E-10	1.7E-10	5.2E-11	7.9E-10
26	UCAR	556529.4	3777373.38 556529.4, 3777373.38	7.08139	6.00425	8.08526	1.08566E-06	3.15613E-08	2.96118E-07	1.4E-06	4.9E-10	1.5E-09	8.6E-10	7.8E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.6E-11	8.5E-10
27	UCAR	556549.4	3777373.38 556549.4, 3777373.38	7.63787	6.56795	8.62979	1.17098E-06	3.45243E-08	3.16062E-07	1.5E-06	5.3E-10	1.6E-09	9.2E-10	8.3E-10	3.8E-10	1.8E-11	4.2E-10	2.2E-10	2.0E-10	6.0E-11	9.2E-10
28	UCAR	556569.4	3777373.38 556569.4, 3777373.38	8.22081	7.19665	9.16356	1.26035E-06	3.78291E-08	3.35611E-07	1.6E-06	5.7E-10	1.7E-09	9.9E-10	9.0E-10	4.1E-10	1.9E-11	4.6E-10	2.3E-10	2.1E-10	6.4E-11	9.9E-10
29	UCAR	556589.4	3777373.38 556589.4, 3777373.38	8.83805	7.90269	9.71149	1.35498E-06	4.15404E-08	3.55678E-07	1.8E-06	6.1E-10	1.8E-09	1.1E-09	9.6E-10	4.4E-10	2.0E-11	4.9E-10	2.5E-10	2.3E-10	6.9E-11	1.1E-09
30	UCAR	556609.4	3777373.38 556609.4, 3777373.38	9.46719	8.6753	10.28669	1.45143E-06	4.56016E-08	3.76745E-07	1.9E-06	6.5E-10	2.0E-09	1.1E-09	1.0E-09	4.7E-10	2.2E-11	5.2E-10	2.7E-10	2.4E-10	7.4E-11	1.1E-09
31	UCAR	556629.4	3777373.38 556629.4, 3777373.38	10.11318	9.52118	10.93028	1.55047E-06	5.0048E-08	4.00316E-07	2E-06	6.9E-10	2.1E-09	1.2E-09	1.1E-09	5.0E-10	2.3E-11	5.6E-10	2.9E-10	2.6E-10	7.9E-11	1.2E-09
32	UCAR	556649.4	3777373.38 556649.4, 3777373.38	10.74707	10.41578	11.65206	1.64765E-06	5.47504E-08	4.26751E-07	2.1E-06	7.4E-10	2.2E-09	1.3E-09	1.2E-09	5.3E-10	2.5E-11	5.9E-10	3.1E-10	2.8E-10	8.4E-11	1.3E-09
33	UCAR	556669.4	3777373.38 556669.4, 3777373.38	11.36721	11.35095	12.47074	1.74273E-06	5.96661E-08	4.56734E-07	2.3E-06	7.8E-10	2.4E-09	1.4E-09	1.2E-09	5.7E-10	2.6E-11	6.3E-10	3.2E-10	2.9E-10	8.9E-11	1.4E-09
34	UCAR	556689.4	3777373.38 556689.4, 3777373.38	11.94723	12.28652	13.4002	1.83165E-06	6.45839E-08	4.90775E-07	2.4E-06	8.3E-10	2.5E-09	1.4E-09	1.3E-09	6.0E-10	2.8E-11	6.7E-10	3.4E-10	3.1E-10	9.4E-11	1.4E-09
35	UCAR	556709.4	3777373.38 556709.4, 3777373.38	12.45283	13.15747	14.48469	1.90917E-06	6.91621E-08	5.30494E-07	2.5E-06	8.7E-10	2.6E-09	1.5E-09	1.4E-09	6.3E-10	2.9E-11	7.0E-10	3.6E-10	3.3E-10	9.9E-11	1.5E-09
36	UCAR	556729.4	3777373.38 556729.4, 3777373.38	12.86266	13.90009	15.80736	1.972E-06	7.30657E-08	5.78936E-07	2.6E-06	9.1E-10	2.7E-09	1.6E-09	1.4E-09	6.6E-10	3.0E-11	7.3E-10	3.8E-10	3.4E-10	1.0E-10	1.6E-09
37	UCAR	556749.4	3777373.38 556749.4, 3777373.38	13.17337	14.48001	17.46159	2.01963E-06	7.6114E-08	6.39522E-07	2.7E-06	9.5E-10	2.9E-09	1.7E-09	1.5E-09	6.8E-10	3.2E-11	7.6E-10	3.9E-10	3.6E-10	1.1E-10	1.7E-09
38	UCAR	556769.4	3777373.38 556769.4, 3777373.38	13.34303	14.83383	19.54754	2.04564E-06	7.79738E-08	7.15919E-07	2.8E-06	9.8E-10	3.0E-09	1.7E-09	1.6E-09	7.1E-10	3.3E-11	7.9E-10	4.1E-10	3.7E-10	1.1E-10	1.7E-09
39	UCAR	556789.4	3777373.38 556789.4, 3777373.38	13.38835	15.03069	22.07895	2.05259E-06	7.90086E-08	8.0863E-07	2.9E-06	1.0E-09	3.1E-09	1.8E-09	1.6E-09	7.4E-10	3.4E-11	8.2E-10	4.2E-10	3.8E-10	1.2E-10	1.8E-09
40	UCAR	556809.4	3777373.38 556809.4, 3777373.38	13.30571	15.1368	24.9429	2.03992E-06	7.95664E-08	9.13521E-07	3E-06	1.0E-09	3.2E-09	1.8E-09	1.7E-09	7.6E-10	3.5E-11	8.5E-10	4.4E-10	4.0E-10	1.2E-10	1.8E-09
41	UCAR	556829.4	3777373.38 556829.4, 3777373.38	13.06181	15.12405	27.90996	2.00253E-06	7.94994E-08	1.02219E-06	3.1E-06	1.1E-09	3.2E-09	1.9E-09	1.7E-09	7.8E-10	3.6E-11	8.7E-10	4.5E-10	4.0E-10	1.2E-10	1.9E-09
42	UCAR	556849.4	3777373.38 556849.4, 3777373.38	12.65944	14.93703	30.57186	1.94084E-06	7.85163E-08	1.11968E-06	3.1E-06	1.1E-09	3.3E-09	1.9E-09	1.7E-09	7.9E-10	3.6E-11	8.8E-10	4.5E-10	4.1E-10	1.2E-10	1.9E-09
43	UCAR	556869.4	3777373.38 556869.4, 3777373.38	12.13149	14.53728	32.44272	1.8599E-06	7.6415E-08	1.1882E-06	3.1E-06	1.1E-09	3.3E-09	1.9E-09	1.7E-09	7.8E-10	3.6E-11	8.7E-10	4.5E-10	4.1E-10	1.2E-10	1.9E-09
44	UCAR	556889.4	3777373.38 556889.4, 3777373.38	11.45411	13.83889	33.06693	1.75605E-06	7.2744E-08	1.21106E-06	3E-06	1.1E-09	3.2E-09	1.8E-09	1.7E-09	7.6E-10	3.5E-11	8.5E-10	4.4E-10	4.0E-10	1.2E-10	1.8E-09
45	UCAR	556909.4	3777373.38 556909.4, 3777373.38	10.65523	12.91776	32.10255	1.63357E-06	6.7902E-08	1.17574E-06	2.9E-06	1.0E-09	3.0E-09	1.7E-09	1.6E-09	7.2E-10	3.3E-11	8.0E-10	4.1E-10	3.7E-10	1.1E-10	1.7E-09
46	UCAR	556929.4	3777373.38 556929.4, 3777373.38	9.77669	11.86572	29.58526	1.49888E-06	6.2372E-08	1.08354E-06	2.6E-06	9.2E-10	2.8E-09	1.6E-09	1.5E-09	6.6E-10	3.1E-11	7.4E-10	3.8E-10	3.4E-10	1.0E-10	1.6E-09
47	UCAR	556949.4	3777373.38 556949.4, 3777373.38	8.89259	10.79359	25.97527	1.36334E-06	5.67364E-08	9.51331E-07	2.4E-06	8.2E-10	2.5E-09	1.4E-09	1.3E-09	5.9E-10	2.7E-11	6.6E-10	3.4E-10	3.1E-10	9.4E-11	1.4E-09
48	UCAR	556969.4	3777373.38 556969.4, 3777373.38	8.04954	9.76288	21.93238	1.23409E-06	5.13185E-08	8.03262E-07	2.1E-06	7.2E-10	2.2E-09	1.3E-09	1.1E-09	5.2E-10	2.4E-11	5.8E-10	3.0E-10	2.7E-10	8.2E-11	1.3E-09
49	UCAR	556989.4	3777373.38 556989.4, 3777373.38	7.26579	8.79673	18.11205	1.11393E-06	4.62399E-08	6.63345E-07	1.8E-06	6.3E-10	1.9E-09	1.1E-09	1.0E-09	4.6E-10	2.1E-11	5.1E-10	2.6E-10	2.4E-10	7.2E-11	1.1E-09
50	UCAR	557009.4	3777373.38 557009.4, 3777373.38	6.55426	7.91417	14.88888	1.00485E-06	4.16007E-08	5.45298E-07	1.6E-06	5.5E-10	1.7E-09	9.6E-10	8.7E-10	4.0E-10	1.8E-11	4.4E-10	2.3E-10	2.1E-10	6.3E-11	9.6E-10
51	UCAR	557029.4	3777373.38 557029.4, 3777373.38	5.92808	7.13581	12.33921	9.08844E-07	3.75093E-08	4.51917E-07	1.4E-06	4.8E-10	1.5E-09	8.5E-10	7.7E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.5E-11	8.5E-10
52	UCAR	557049.4	3777373.38 557049.4, 3777373.38	5.37001	6.43976	10.32916	8.23286E-07	3.38505E-08	3.783E-07	1.2E-06	4.3E-10	1.3E-09	7.5E-10	6.8E-10	3.1E-10	1.4E-11	3.4E-10	1.8E-10	1.6E-10	4.9E-11	7.5E-10
53	UCAR	557069.4	3777373.38 557069.4, 3777373.38	4.8709	5.81578	8.73811	7.46766E-07	3.05706E-08	3.20029E-07	1.1E-06	3.8E-10	1.1E-09	6.6E-10	6.0E-10	2.7E-10	1.3E-11	3.1E-10	1.6E-10	1.4E-10	4.3E-11	6.6E-10
54	UCAR	557089.4	3777373.38 557089.4, 3777373.38	4.43575	5.2725	7.48945	6.80053E-07	2.77148E-08	2.74297E-07	9.8E-07	3.4E-10	1.0E-09	5.9E-10	5.4E-10	2.5E-10	1.1E-11	2.7E-10	1.4E-10	1.3E-10	3.9E-11	5.9E-10
55	UCAR	557109.4	3777373.38 557109.4, 3777373.38	4.05274	4.79501	6.49167	6.21333E-07	2.52049E-08	2.37754E-07	8.8E-07	3.1E-10	9.2E-10	5.4E-10	4.9E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.2E-10	3.5E-11	5.3E-10
56	UCAR	557129.4	3777373.38 557129.4, 3777373.38	3.71581	4.37596	5.68571	5.69677E-07	2.30022E-08	2.08236E-07	8E-07	2.8E-10	8.4E-10	4.8E-10	4.4E-10	2.0E-10	9.3E-12	2.2E-10	1.2E-10	1.0E-10	3.2E-11	4.8E-10
57	UCAR	557149.4	3777373.38 557149.4, 3777373.38	3.41831	4.00698	5.02604	5.24067E-07	2.10626E-08	1.84076E-07	7.3E-07	2.5E-10	7.6E-10	4.4E-10	4.0E-10	1.8E-10	8.4E-12	2.0E-10	1.0E-10	9.5E-11	2.9E-11	4.4E-10
58	UCAR	557169.4	3777373.38 557169.4, 3777373.38	3.15635	3.68321	4.48207	4.83906E-07	1.93607E-08	1.64154E-07	6.7E-07	2.3E-10	7.0E-10	4.0E-10	3.7E-10	1.7E-10	7.7E-12	1.9E-10	9.6E-11	8.7E-11	2.6E-11	4.0E-10
59	UCAR	557189.4	3777373.38 557189.4, 3777373.38	2.92662	3.40039	4.03092	4.48685E-07	1.78741E-08	1.4763E-07	6.1E-07	2.1E-10	6.4E-10	3.7E-10	3.4E-10	1.5E-10	7.1E-12	1.7E-10	8.8E-11	8.0E-11	2.4E-11	3.7E-10
60	UCAR	557209.4	3777373.38 557209.4, 3777373.38	2.72028	3.14718	3.64713	4.17051E-07	1.65431E-08	1.33574E-07	5.7E-07	2.0E-10	5.9E-10	3.4E-10	3.1E-10	1.4E-10	6.6E-12	1.6E-10	8.2E-11	7.4E-11	2.2E-11	3.4E-10
61	UCAR	557229.4	3777373.38 557229.4, 3777373.38	2.53247	2.91747	3.31536	3.88257E-07	1.53356E-08	1.21423E-07	5.3E-07	1.8E-10	5.5E-10	3.2E-10	2.9E-10	1.3E-10	6.1E-12	1.5E-10	7.5E-11	6.8E-11	2.1E-11	3.2E-10
62	UCAR	557249.4	3777373.38 557249.4, 3777373.38	2.36238	2.71024	3.028	3.62181E-07	1.42463E-08	1.10899E-07	4.9E-07	1.7E-10	5.1E-10	2.9E-10	2.7E-10	1.2E-10	5.6E-12	1.4E-10	7.0E-11	6.4E-11	1.9E-11	2.9E-10
63	UCAR	557269.4	3777373.38 557269.4, 3777373.38	2.20803	2.52295	2.77742	3.38517E-07	1.32619E-08	1.01722E-07	4.5E-07	1.6E-10	4.7E-10	2.7E-10	2.5E-10	1.1E-10	5.2E-12	1.3E-10	6.5E-11	5.9E-11	1.8E-11	2.7E-10
64	UCAR	557289.4	3777373.38 557289.4, 3777373.38	2.07107	2.35751	2.56165	3.17519E-07	1.23922E-08	9.38191E-08	4.2E-07	1.5E-10	4.4E-10	2.6E-10	2.3E-10	1.1E-10	4.9E-12	1.2E-10	6.1E-11	5.5E-11	1.7E-11	2.6E-10
65	UCAR	557309.4	3777373.38 557309.4, 3777373.38	1.94748	2.20887	2.37265	2.98572E-07	1.16109E-08	8.68971E-08	4E-07	1.4E-10	4.2E-10	2.4E-10	2.2E-10	9.9E-11	4.6E-12	1.1E-10	5.7E-11	5.2E-11	1.6E-11	2.4E-10
66	UCAR	557329.4	3777373.38 557329.4, 3777373.38	1.83141	2.06975	2.20123	2.80777E-07	1.08796E-08	8.06189E-08	3.7E-07	1.3E-10	3.9E-10	2.3E-10	2.0E-10	9.3E-11	4.3E-12	1.0E-10	5.4E-11	4.9E-11	1.5E-11	2.2E-10
67	UCAR	557349.4	3777373.38 557349.4, 3777373.38	1.72885	1.94738	2.05257	2.65053E-07	1.02364E-08	7.51743E-08	3.5E-07	1.2E-10	3.7E-10	2.1E-10	1.9E-10	8.8E-11	4.1E-12	9.8E-11	5.0E-11	4.6E-11	1.4E-11	2.1E-10
68	UCAR	557369.4	3777373.38 557369.4, 3777373.38	1.63315	1.83361	1.91757	2.50381E-07	9.63835E-09	7.023E-08	3.3E-07	1.1E-10	3.5E-10	2.0E-10	1.8E-10	8.3E-11	3.8E-12	9.2E-11	4.7E-11	4.3E-11	1.3E-11	2.0E-10
69	UCAR	557389.4	3777373.38 557389.4, 3777373.38	1.54543	1.72973	1.79638	2.36933E-07	9.0923E-09	6.57915E-08	3.1E-07	1.1E-10	3.3E-10	1.9E-10	1.7E-10	7.8E-11	3.6E-12	8.7E-11	4.5E-11	4.1E-11	1.2E-11	1.9E-10
70	UCAR	557409.4	3777373.38 557409.4, 3777373.38	1.46476	1.63456	1.68707	2.24565E-07	8.59204E-09	6.17881E-08	2.9E-07	1.0E-10	3.1E-10	1.8E-10	1.6E-10	7.4E-11	3.4E-12	8.2E-11	4.2E-11	3.8E-11	1.2E-11	1.8E-10
71	UCAR	557429.4	3777373.38 557429.4, 3777373.38	1.38888	1.54536	1.58643	2.12932E-07	8.12317E-09	5.81022E-08	2.8E-07	9.7E-11	2.9E-10	1.7E-10	1.5E-10	7.0E-11	3.2E-12	7.8E-11	4.0E-11	3.6E-11	1.1E-11	1.7E-10
72	UCAR	557449.4	3777373.38 557449.4, 3777373.38	1.32066	1.46548	1.49698	2.02473E-07	7.70328E-09	5.48261E-08	2.7E-07	9.2E-11	2.8E-10	1.6E-10	1.5E-10	6.6E-11	3.1E-12	7.4E-11	3.8E-11	3.5E-11	1.0E-11	1.6E-10
73	UCAR	557469.4	3777373.38 557469.4, 3777373.38	1.25634	1.39041	1.41414	1.92612E-07	7.30867E-09	5.17921E-08	2.5E-07	8.7E-11	2.6E-10	1.5E-10	1.4E-10	6.3E-11	2.9E-12	7.0E-11	3.6E-11	3.3E-11	9.9E-12	1.5E-10
74	UCAR	557489.4	3777373.38 557489.4, 3777373.38	1.19412	1.31803	1.3356	1.83073E-07	6.92821E-09	4.89157E-08	2.4E-07	8.3E-11	2.5E-10	1.4E-10	1.3E-10	6.0E-11	2.8E-12	6.7E-11	3.4E-11	3.1E-11	9.4E-12	1.4E-10
75	UCAR	556509.4	3777393.38 556509.4, 3777393.38	6.09056	5.26325	6.86928	9.33754E-07	2.76662E-08	2.51584E-07	1.2E-06	4.2E-10	1.3E-09	7.3E-10	6.7E-10	3.0E-10	1.4E-11	3.4E-10	1.7E-10	1.6E-10	4.8E-11	7.3E-10
76	UCAR	556529.4	3777393.38 556529.4, 3777393.38	6.52298	5.70734	7.30825	1.0000S-06	3.00006E-08	2.67661E-07	1.3E-06	4.5E-10	1.4E-09	7.9E-10	7.1E-10	3.2E-10	1.5E-11	3.6E-10	1.9E-10	1.7E-10	5.1E-11	7.8E-10
77	UCAR	556549.4	3777393.38 556549.4, 3777393.38	6.97665	6.19914	7.74813	1.0696E-06	3.25857E-08	2.83771E-07	1.4E-06	4.8E-10	1.4E-09	8.4E-10	7.6E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.5E-11	8.4E-10
78	UCAR	556569.4	3777393.38 556569.4, 3777393.38	7.44383	6.73724	8.1931	1.14123E-06	3.54142E-08	3.00068E-07	1.5E-06	5.1E-10	1.5E-09	8.9E-10	8.1E-10	3.7E-10	1.7E-11	4.1E-10	2.1E-10	1.9E-10	5.8E-11	8.9E-10
79	UCAR	556589.4	3777393.38 556589.4, 3777393.38	7.93469	7.3326	8.67124	1.21648E-06	3.85437E-08	3.1758E-07	1.6E-06	5.4E-10	1.6E-09	9.5E-10	8.6E-10	3.9E-10	1.8E-11	4.4E-10	2.3E-10	2.0E-10	6.2E-11	9.5E-10
80	UCAR	556609.4	3777393.38 556609.4, 3777393.38	8.42382	7.96642	9.19053	1.29147E-06	4.18754E-08	3.36598E-07	1.7E-06	5.8E-10	1.7E-09	1.0E-09

Operational Delivery Truck Risk

	OnSite Travel	OnSite Idle	Off-Site Travel
Emissions Rate (g/s):	1.53312E-07	5.25649E-09	3.66E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s			Unmitigated				Residential Dose					Risk by Age Group					
	X	Y	X, Y	OnSite Travel	OnSite Idle	Off-Site Travel	OnSite Travel	OnSite Idle	Off-Site Travel	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
121 UCAR	557429.4	3777393.38	557429.4, 3777393.38	1.36226	1.51422	1.56567	2.0885E-07	7.95948E-09	5.73419E-08	2.7E-07	9.5E-11	2.9E-10	1.7E-10	1.5E-10	6.9E-11	3.2E-12	7.7E-11	3.9E-11	3.6E-11	1.1E-11	1.7E-10
122 UCAR	557449.4	3777393.38	557449.4, 3777393.38	1.29702	1.43797	1.47902	1.98848E-07	7.55867E-09	5.41683E-08	2.6E-07	9.0E-11	2.7E-10	1.6E-10	1.4E-10	6.5E-11	3.0E-12	7.3E-11	3.7E-11	3.4E-11	1.0E-11	1.6E-10
123 UCAR	557469.4	3777393.38	557469.4, 3777393.38	1.23467	1.36532	1.39786	1.89289E-07	7.17679E-09	5.11959E-08	2.5E-07	8.6E-11	2.6E-10	1.5E-10	1.4E-10	6.2E-11	2.9E-12	6.9E-11	3.6E-11	3.2E-11	9.8E-12	1.5E-10
124 UCAR	557489.4	3777393.38	557489.4, 3777393.38	1.17514	1.29616	1.32175	1.80163E-07	6.81325E-09	4.84084E-08	2.4E-07	8.1E-11	2.5E-10	1.4E-10	1.3E-10	5.9E-11	2.7E-12	6.6E-11	3.4E-11	3.1E-11	9.3E-12	1.4E-10
125 UCAR	556509.4	3777413.38	556509.4, 3777413.38	5.64585	5.00841	6.28768	8.65575E-07	2.63266E-08	2.30283E-07	1.1E-06	3.9E-10	1.2E-09	6.8E-10	6.2E-10	2.8E-10	1.3E-11	3.1E-10	1.6E-10	1.5E-10	4.4E-11	6.8E-10
126 UCAR	556529.4	3777413.38	556529.4, 3777413.38	6.00679	5.40066	6.65219	9.20912E-07	2.83885E-08	2.43633E-07	1.2E-06	4.1E-10	1.2E-09	7.2E-10	6.5E-10	3.0E-10	1.4E-11	3.3E-10	1.7E-10	1.6E-10	4.7E-11	7.2E-10
127 UCAR	556549.4	3777413.38	556549.4, 3777413.38	6.3811	5.82913	7.02505	9.78298E-07	3.06408E-08	2.57289E-07	1.3E-06	4.4E-10	1.3E-09	7.7E-10	6.9E-10	3.2E-10	1.5E-11	3.5E-10	1.8E-10	1.7E-10	5.0E-11	7.7E-10
128 UCAR	556569.4	3777413.38	556569.4, 3777413.38	6.76234	6.29074	7.41385	1.03675E-06	3.30672E-08	2.71528E-07	1.3E-06	4.6E-10	1.4E-09	8.1E-10	7.4E-10	3.4E-10	1.6E-11	3.7E-10	1.9E-10	1.7E-10	5.3E-11	8.1E-10
129 UCAR	556589.4	3777413.38	556589.4, 3777413.38	7.14481	6.78104	7.83315	1.09538E-06	3.56445E-08	2.86885E-07	1.4E-06	4.9E-10	1.5E-09	8.6E-10	7.8E-10	3.5E-10	1.6E-11	4.0E-10	2.0E-10	1.8E-10	5.6E-11	8.6E-10
130 UCAR	556609.4	3777413.38	556609.4, 3777413.38	7.52211	7.29247	8.29908	1.15323E-06	3.83328E-08	3.0395E-07	1.5E-06	5.2E-10	1.6E-09	9.0E-10	8.2E-10	3.7E-10	1.7E-11	4.2E-10	2.2E-10	1.9E-10	5.9E-11	9.0E-10
131 UCAR	556629.4	3777413.38	556629.4, 3777413.38	7.89079	7.8176	8.82563	1.20975E-06	4.10931E-08	3.23234E-07	1.6E-06	5.4E-10	1.6E-09	9.5E-10	8.6E-10	3.9E-10	1.8E-11	4.4E-10	2.3E-10	2.1E-10	6.2E-11	9.5E-10
132 UCAR	556649.4	3777413.38	556649.4, 3777413.38	8.22496	8.32319	9.40962	1.26098E-06	4.37507E-08	3.44622E-07	1.6E-06	5.7E-10	1.7E-09	1.0E-09	9.0E-10	4.1E-10	1.9E-11	4.6E-10	2.4E-10	2.1E-10	6.5E-11	1.0E-09
133 UCAR	556669.4	3777413.38	556669.4, 3777413.38	8.53488	8.8085	10.06125	1.3085E-06	4.63018E-08	3.68488E-07	1.7E-06	6.0E-10	1.8E-09	1.0E-09	9.5E-10	4.3E-10	2.0E-11	4.8E-10	2.5E-10	2.2E-10	6.8E-11	1.0E-09
134 UCAR	556689.4	3777413.38	556689.4, 3777413.38	8.8045	9.24373	10.77856	1.34983E-06	4.85896E-08	3.94759E-07	1.8E-06	6.2E-10	1.9E-09	1.1E-09	9.8E-10	4.5E-10	2.1E-11	5.0E-10	2.6E-10	2.3E-10	7.1E-11	1.1E-09
135 UCAR	556709.4	3777413.38	556709.4, 3777413.38	9.02752	9.60963	11.56679	1.38402E-06	5.05129E-08	4.23628E-07	1.9E-06	6.4E-10	1.9E-09	1.1E-09	1.0E-09	4.7E-10	2.1E-11	5.2E-10	2.7E-10	2.4E-10	7.3E-11	1.1E-09
136 UCAR	556729.4	3777413.38	556729.4, 3777413.38	9.18923	9.88141	12.42969	1.40882E-06	5.19415E-08	4.55231E-07	1.9E-06	6.6E-10	2.0E-09	1.2E-09	1.1E-09	4.8E-10	2.2E-11	5.3E-10	2.8E-10	2.5E-10	7.6E-11	1.2E-09
137 UCAR	556749.4	3777413.38	556749.4, 3777413.38	9.2837	10.05584	13.36592	1.4233E-06	5.28584E-08	4.8952E-07	2E-06	6.8E-10	2.1E-09	1.2E-09	1.1E-09	4.9E-10	2.3E-11	5.5E-10	2.8E-10	2.6E-10	7.8E-11	1.2E-09
138 UCAR	556769.4	3777413.38	556769.4, 3777413.38	9.33172	10.1815	14.34852	1.43066E-06	5.35189E-08	5.25507E-07	2E-06	7.0E-10	2.1E-09	1.2E-09	1.1E-09	5.0E-10	2.3E-11	5.6E-10	2.9E-10	2.6E-10	7.9E-11	1.2E-09
139 UCAR	556789.4	3777413.38	556789.4, 3777413.38	9.29321	10.2293	15.32667	1.42476E-06	5.37702E-08	5.61331E-07	2E-06	7.1E-10	2.1E-09	1.2E-09	1.1E-09	5.1E-10	2.4E-11	5.7E-10	2.9E-10	2.7E-10	8.1E-11	1.2E-09
140 UCAR	556809.4	3777413.38	556809.4, 3777413.38	9.20584	10.26835	16.21125	1.41136E-06	5.39755E-08	5.93729E-07	2.1E-06	7.1E-10	2.2E-09	1.2E-09	1.1E-09	5.2E-10	2.4E-11	5.7E-10	3.0E-10	2.7E-10	8.1E-11	1.2E-09
141 UCAR	556829.4	3777413.38	556829.4, 3777413.38	9.03826	10.24551	16.90251	1.38567E-06	5.38554E-08	6.19046E-07	2.1E-06	7.1E-10	2.2E-09	1.2E-09	1.1E-09	5.2E-10	2.4E-11	5.7E-10	3.0E-10	2.7E-10	8.1E-11	1.2E-09
142 UCAR	556849.4	3777413.38	556849.4, 3777413.38	8.8012	10.14324	17.32776	1.34933E-06	5.33178E-08	6.3462E-07	2E-06	7.1E-10	2.1E-09	1.2E-09	1.1E-09	5.1E-10	2.4E-11	5.7E-10	2.9E-10	2.7E-10	8.0E-11	1.2E-09
143 UCAR	556869.4	3777413.38	556869.4, 3777413.38	8.5204	9.96161	17.5123	1.30628E-06	5.23631E-08	6.41379E-07	2E-06	6.9E-10	2.1E-09	1.2E-09	1.1E-09	5.0E-10	2.3E-11	5.6E-10	2.9E-10	2.6E-10	7.9E-11	1.2E-09
144 UCAR	556889.4	3777413.38	556889.4, 3777413.38	8.1595	9.63449	17.38017	1.25095E-06	5.06436E-08	6.3654E-07	1.9E-06	6.7E-10	2.0E-09	1.2E-09	1.1E-09	4.9E-10	2.2E-11	5.4E-10	2.8E-10	2.5E-10	7.7E-11	1.2E-09
145 UCAR	556909.4	3777413.38	556909.4, 3777413.38	7.73704	9.19086	16.92014	1.18618E-06	4.83116E-08	6.19691E-07	1.9E-06	6.4E-10	1.9E-09	1.1E-09	1.0E-09	4.6E-10	2.1E-11	5.2E-10	2.7E-10	2.4E-10	7.3E-11	1.1E-09
146 UCAR	556929.4	3777413.38	556929.4, 3777413.38	7.28173	8.68052	16.13015	1.11637E-06	4.5629E-08	5.90758E-07	1.8E-06	6.1E-10	1.8E-09	1.1E-09	9.6E-10	4.4E-10	2.0E-11	4.9E-10	2.5E-10	2.3E-10	6.9E-11	1.1E-09
147 UCAR	556949.4	3777413.38	556949.4, 3777413.38	6.76403	8.06829	14.88542	1.03701E-06	4.24109E-08	5.45171E-07	1.6E-06	5.6E-10	1.7E-09	9.8E-10	8.9E-10	4.1E-10	1.9E-11	4.5E-10	2.3E-10	2.1E-10	6.4E-11	9.8E-10
148 UCAR	556969.4	3777413.38	556969.4, 3777413.38	6.26489	7.47041	13.4501	9.60481E-07	3.92681E-08	4.92603E-07	1.5E-06	5.2E-10	1.6E-09	9.0E-10	8.2E-10	3.7E-10	1.7E-11	4.2E-10	2.1E-10	1.9E-10	5.9E-11	9.0E-10
149 UCAR	556989.4	3777413.38	556989.4, 3777413.38	5.78432	6.88828	11.94379	8.86804E-07	3.62082E-08	4.37435E-07	1.4E-06	4.7E-10	1.4E-09	8.2E-10	7.5E-10	3.4E-10	1.6E-11	3.8E-10	2.0E-10	1.8E-10	5.4E-11	8.2E-10
150 UCAR	557009.4	3777413.38	557009.4, 3777413.38	5.33773	6.34442	10.51842	8.18337E-07	3.33494E-08	3.85232E-07	1.2E-06	4.3E-10	1.3E-09	7.5E-10	6.8E-10	3.1E-10	1.4E-11	3.5E-10	1.8E-10	1.6E-10	4.9E-11	7.5E-10
151 UCAR	557029.4	3777413.38	557029.4, 3777413.38	4.91382	5.82478	9.2101	7.53346E-07	3.06179E-08	3.37315E-07	1.1E-06	3.9E-10	1.2E-09	6.8E-10	6.2E-10	2.8E-10	1.3E-11	3.1E-10	1.6E-10	1.5E-10	4.4E-11	6.8E-10
152 UCAR	557049.4	3777413.38	557049.4, 3777413.38	4.52868	5.35219	8.07978	6.943E-07	2.81337E-08	2.95918E-07	1E-06	3.5E-10	1.1E-09	6.2E-10	5.6E-10	2.5E-10	1.2E-11	2.8E-10	1.5E-10	1.3E-10	4.0E-11	6.2E-10
153 UCAR	557069.4	3777413.38	557069.4, 3777413.38	4.17737	4.92083	7.11184	6.4044E-07	2.58663E-08	2.60467E-07	9.3E-07	3.2E-10	9.7E-10	5.6E-10	5.1E-10	2.3E-10	1.1E-11	2.6E-10	1.3E-10	1.2E-10	3.7E-11	5.6E-10
154 UCAR	557089.4	3777413.38	557089.4, 3777413.38	3.85782	4.52856	6.28818	5.91449E-07	2.38043E-08	2.30301E-07	8.5E-07	2.9E-10	8.8E-10	5.1E-10	4.6E-10	2.1E-10	9.8E-12	2.4E-10	1.2E-10	1.1E-10	3.3E-11	5.1E-10
155 UCAR	557109.4	3777413.38	557109.4, 3777413.38	3.57143	4.17761	5.59448	5.47542E-07	2.19596E-08	2.04895E-07	7.7E-07	2.7E-10	8.1E-10	4.7E-10	4.2E-10	1.9E-10	9.0E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.7E-10
156 UCAR	557129.4	3777413.38	557129.4, 3777413.38	3.30186	3.84707	4.98715	5.06214E-07	2.02221E-08	1.82652E-07	7.1E-07	2.5E-10	7.4E-10	4.3E-10	3.9E-10	1.8E-10	8.2E-12	2.0E-10	1.0E-10	9.2E-11	2.8E-11	4.3E-10
157 UCAR	557149.4	3777413.38	557149.4, 3777413.38	3.07125	3.56574	4.49014	4.70859E-07	1.87433E-08	1.64449E-07	6.5E-07	2.3E-10	6.8E-10	4.0E-10	3.6E-10	1.6E-10	7.6E-12	1.8E-10	9.4E-11	8.5E-11	2.6E-11	4.0E-10
158 UCAR	557169.4	3777413.38	557169.4, 3777413.38	2.85474	3.30174	4.05168	4.37665E-07	1.73556E-08	1.48391E-07	6E-07	2.1E-10	6.3E-10	3.7E-10	3.3E-10	1.5E-10	7.0E-12	1.7E-10	8.7E-11	7.9E-11	2.4E-11	3.6E-10
159 UCAR	557189.4	3777413.38	557189.4, 3777413.38	2.66341	3.06929	3.68077	4.08332E-07	1.61337E-08	1.34806E-07	5.6E-07	1.9E-10	5.8E-10	3.4E-10	3.1E-10	1.4E-10	6.5E-12	1.6E-10	8.0E-11	7.3E-11	2.2E-11	3.4E-10
160 UCAR	557209.4	3777413.38	557209.4, 3777413.38	2.49284	2.86275	3.36337	3.82182E-07	1.5048E-08	1.23182E-07	5.2E-07	1.8E-10	5.4E-10	3.1E-10	2.9E-10	1.3E-10	6.0E-12	1.5E-10	7.5E-11	6.8E-11	2.1E-11	3.1E-10
161 UCAR	557229.4	3777413.38	557229.4, 3777413.38	2.33448	2.6714	3.08196	3.57903E-07	1.40422E-08	1.12875E-07	4.8E-07	1.7E-10	5.1E-10	2.9E-10	2.7E-10	1.2E-10	5.6E-12	1.4E-10	7.0E-11	6.3E-11	1.9E-11	2.9E-10
162 UCAR	557249.4	3777413.38	557249.4, 3777413.38	2.19102	2.49861	2.83626	3.35909E-07	1.31339E-08	1.03877E-07	4.5E-07	1.6E-10	4.7E-10	2.7E-10	2.5E-10	1.1E-10	5.2E-12	1.3E-10	6.5E-11	5.9E-11	1.8E-11	2.7E-10
163 UCAR	557269.4	3777413.38	557269.4, 3777413.38	2.06092	2.34242	2.62077	3.15963E-07	1.23129E-08	9.59844E-08	4.2E-07	1.5E-10	4.4E-10	2.6E-10	2.3E-10	1.1E-10	4.9E-12	1.2E-10	6.1E-11	5.5E-11	1.7E-11	2.6E-10
164 UCAR	557289.4	3777413.38	557289.4, 3777413.38	1.94148	2.19946	2.42931	2.97652E-07	1.15614E-08	8.89722E-08	4E-07	1.4E-10	4.2E-10	2.4E-10	2.2E-10	1.0E-10	4.6E-12	1.1E-10	5.7E-11	5.2E-11	1.6E-11	2.4E-10
165 UCAR	557309.4	3777413.38	557309.4, 3777413.38	1.83163	2.06841	2.25845	2.8081E-07	1.08726E-08	8.27146E-08	3.7E-07	1.3E-10	3.9E-10	2.3E-10	2.1E-10	9.4E-11	4.3E-12	1.0E-10	5.4E-11	4.9E-11	1.5E-11	2.3E-10
166 UCAR	557329.4	3777413.38	557329.4, 3777413.38	1.72951	1.94695	2.10422	2.65154E-07	1.02341E-08	7.7066E-08	3.5E-07	1.2E-10	3.7E-10	2.1E-10	1.9E-10	8.8E-11	4.1E-12	9.8E-11	5.1E-11	4.6E-11	1.4E-11	2.1E-10
167 UCAR	557349.4	3777413.38	557349.4, 3777413.38	1.63933	1.84013	1.97028	2.51329E-07	9.67262E-09	7.21605E-08	3.3E-07	1.2E-10	3.5E-10	2.0E-10	1.8E-10	8.3E-11	3.9E-12	9.3E-11	4.8E-11	4.3E-11	1.3E-11	2.0E-10
168 UCAR	557369.4	3777413.38	557369.4, 3777413.38	1.55217	1.73713	1.84487	2.37966E-07	9.1312E-09	6.75674E-08	3.1E-07	1.1E-10	3.3E-10	1.9E-10	1.7E-10	7.9E-11	3.6E-12	8.8E-11	4.5E-11	4.1E-11	1.2E-11	1.9E-10
169 UCAR	557389.4	3777413.38	557389.4, 3777413.38	1.47496	1.64625	1.73525	2.26129E-07	8.65349E-09	6.35526E-08	3E-07	1.0E-10	3.1E-10	1.8E-10	1.6E-10	7.5E-11	3.4E-12	8.3E-11	4.3E-11	3.9E-11	1.2E-11	1.8E-10
170 UCAR	557409.4	3777413.38	557409.4, 3777413.38	1.40274	1.5615	1.63486	2.15057E-07	8.20801E-09	5.98759E-08	2.8E-07	9.8E-11	3.0E-10	1.7E-10	1.6E-10	7.1E-11	3.3E-12	7.9E-11	4.1E-11	3.7E-11	1.1E-11	1.7E-10
171 UCAR	557429.4	3777413.38	557429.4, 3777413.38	1.33243	1.4792	1.53969	2.04277E-07	7.7754E-09	5.63904E-08	2.7E-07	9.3E-11	2.8E-10	1.6E-10	1.5E-10	6.7E-11	3.1E-12	7.5E-11	3.9E-11	3.5E-11	1.1E-11	1.6E-10
172 UCAR	557449.4	3777413.38	557449.4, 3777413.38	1.2699	1.40627	1.45582	1.94691E-07	7.39204E-09	5.33187E-08	2.6E-07	8.8E-11	2.7E-10	1.5E-10	1.4E-10	6.4E-11	3.0E-12	7.1E-11	3.7E-11	3.3E-11	1.0E-11	1.5E-10
173 UCAR	557469.4	3777413.38	557469.4, 3777413.38	1.21239	1.33942	1.37972	1.85874E-07	7.04065E-09	5.05315E-08	2.4E-07	8.4E-11	2.5E-10	1.5E-10	1.3E-10	6.1E-11	2.8E-12	6.8E-11	3.5E-11	3.2E-11	9.6E-12	1.5E-10
174 UCAR	557489.4	3777413.38	557489.4, 3777413.38	1.15626	1.27434	1.30703	1.77268E-07	6.69855E-09	4.78693E-08	2.3E-07	8.0E-11	2.4E-10	1.4E-10	1.3E-10	5.8E-11	2.7E-12	6.5E-11	3.3E-11	3.0E-11	9.2E-12	1.4E-10
175 UCAR	556509.4	3777433.38	556509.4, 3777433.38	5.23196	4.74947	5.78011	8.02121E-07	2.49655E-08	2.11694E-07	1E-06	3.6E-10	1.1E-09	6.3E-10	5.7E-10	2.6E-10	1.2E-11	2.9E-10	1.5E-10	1.4E-10	4.1E-11	6.3E-10
176 UCAR	556529.4	3777433.38	556529.4, 3777433.38	5.53021	5.09102	6.08832	8.47846E-07	2.67609E-08	2.22982E-07	1.1E-06	3.8E-10	1.1E-09	6.6E-10	6.0E-10	2.7E-10	1.3E-11	3.1E-10	1.6E-10	1.4E-10	4.3E-11	6.6E-10
177 UCAR	556549.4	3777433.38	556549.4, 3777433.38	5.83277	5.45603	6.40771	8.94232E-07	2.86796E-08	2.34679E-07	1.2E-06	4.0E-10	1.2E-09	7.0E-10	6.3E-10	2.9E-10	1.3E-11	3.2E-10	1.7E-10	1.5E-10	4.6E-11	7.0E-10
178 UCAR	556569.4	3777433.38	556569.4, 3777433.38	6.13454	5.84016	6.74688	9.40497E-07	3.06987E-08	2.47101E-07	1.2E-06	4.2E-10	1.3E-09	7.4E-10	6.7E-10	3.0E-10	1.4E-11	3.4E-10	1.8E-10	1.6E-10	4.8E-11	7.4E-10
179 UCAR	556589.4	3777433.38	556589.4, 3777433.38	6.44007	6.24605	7.12376	9.87338E-07	3.28323E-08	2.60904E-07	1.3E-06	4.4E-10	1.3E-09	7.8E-10	7.0E-10	3.2E-10	1.5E-11	3.6E-10	1.8E-10	1.7E-10	5.1E-11	7.7E-10
180 UCAR	556609.4	3777433.38	556609.4, 3777433.38	6.73246	6.65527	7.54016	1.03217E-06	3.49833E-08	2.76154E-07	1.3E-06	4.7E-10	1.4E-09	8.1E-10	7.4E-10	3.4E-10	1.6E-11	3.8E-10	1.9E-10	1.8E-10	5.3E-11	8.1E-10
181 UCAR	556629.4	3777433.38	556629.4, 3777433.38	7.00755	7.05789	8.00386	1.07434E-06	3.70997E-08	2.93137E-07	1.4E-06	4.9E-10	1.5E-09	8.5E-10	7.7E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.5E-11	8.5E-10
182 UCAR	556649.4	3777433.38	556649.4, 3777433.38	7.25627	7.43688	8.51422	1.11247E-06	3.90919E-08	3.11829E-07	1.5E-06	5.1E-10	1.5E-09	8.9E-10	8.0E-10	3.7E-10	1.7E-11	4.1E-10	2.1E-10	1.9E-10	5.8E-11	8.8E-10
183 UCAR	556669.4	3777433.38	556669.4, 3777433.38	7.47397	7.778	9.06865	1.14585E-06	4.0885E-08	3.32135E-07	1.5E-06	5.3E-10	1.6E-09	9.2E-10	8.3E-10	3.8E-10	1.8E-11	4.2E-10	2.2E-10	2.0E-10	6.0E-11	9.2E-10
184 UCAR	556689.4	3777433.38	556689.4, 3777433.38	7.66437	8.07711	9.66614	1.17504E-06	4.24572E-08	3.54017E-07	1.6E-06	5.4E-10	1.6E-09	9.5E-10	8.6E-10	3.9E-10	1.8E-11	4.4E-10	2.3E-10	2.0E-10	6.2E-11	9.5E-10
185 UCAR	556709.4	3777433.38	556709.4, 3777433.38	7.80604	8.30357	10.29461	1.19676E-06	4.36476E-08	3.77035E-07	1.6E-06	5.6E-10	1.7E-09	9.8E-10	8.9E-10	4.0E-10	1.9E-11	4.5E-10	2.3E-10	2.1E-10	6.4E-11	9.8E-10
186 UCAR	556729.4	3777433.38	556729.4, 3777433.38	7.91092	8.47247	10.94953	1.21284E-06	4.45354E-08	4.01021E-07	1.7E-06	5.7E-10	1.7E-09	1.0E-09	9.1E-10	4.2E-10	1.9E-11	4.6E-10	2.4E-10	2.2E-10	6.5E-11	1.0E-09
187 UCAR	556749.4	3777433.38	556749.4, 3777433.38	7.95723	8.56567	11.61117	1.21994E-06	4.50253E-08	4.25253E-07	1.7E-06	5.9E-10	1.8E-09	1.0E-09	9.3E-10	4.2E-10	2.0E-11	4.7E-10	2.4E-10	2.2E-10	6.7E-11	1.0E-09
188 UCAR	556769.4	3777433.38	556769.4, 3777433.38	7.9778	8.64299	12.25307	1.22309E-06	4.54318E-08	4.48762E-07	1.7E-06	5.9E-10	1.8E-09	1.0E-09	9.4E-10	4.3E-10	2.0E-11	4.8E-10	2.5E-10	2.2E-10	6.8E-11	1.0E-09
189 UCAR	556789.4	3777433.38	556789.4, 3777433.38	7.93468	8.6713	12.82585	1.21648E-06	4.55806E-08	4.6974E-07	1.7E-06	6.0E-10	1.8E-09	1.0E-09	9.5E-10	4.3E-10	2.0E-11	4.8E-10	2.5E-10	2.3E-10	6.8E-11	1.0E-09
190 UCAR	556809.4	3777433.38	556809.4, 3777433.38	7.84891	8.68531	13.27909	1.20333E-06	4.56542E-08	4.8634E-07	1.7E-06	6.0E-10	1.8E-09	1.0E-09	9.5E-10	4.3E-10	2.0E-11	4.8E-10	2.5E-10	2.3E-10	6.9E-11	1.0E-09
191 UCAR	556829.4	3777433.38	556829.4, 3777433.38	7.71749	8.66956	13.5804	1.18318E-06	4.55714E-08	4.97375E-07	1.7E-06	6.0E-10	1.8E-09	1.0E-09	9.5E-10	4.3E-10	2.0E-11	4.8E-10	2.5E-10	2.2E-10	6.8E-11	1.0E-09
192 UCAR	556849.4	3777433.38	556849.4, 3777433.38	7.52928	8.58651	13.70467	1.15433E-06	4.51349E-08	5.01926E-07	1.7E-06	5.9E-10	1.8E-09	1.0E-09	9.3E-10	4.3E-10	2.0E-11	4.8E-10	2.4E-10	2.2E-10	6.7E-11	1.0E-09
193 UCAR	556869.4	3777433.38	556869.4, 3777433.38	7.31597	8.45546	13.71809	1.12162E-06	4.4446E-08	5.02418E-07	1.7E-06	5.8E-10	1.7E-09	1.0E-09	9.2E-10	4.2E-10	1.9E-11	4.7E-10	2.4E-10	2.2E-10	6.6E-11	1.0E-09
194 UCAR	556889.4	3777433.38	556889.4, 3777433.38	7.04592	8.22466	13.57178	1.08022E-06	4.32328E-08	4.97059E-07	1.6E-06	5.6E-10	1.7E-09	9.8E-10	8.9E-10	4.1E-10	1.9E-11	4.5E-10	2.3E-10	2.1E-10	6.4E-11	9.8E-10
195 UCAR	556909.4	3777433.38	556909.4, 3777433.38	6.73058	7.90966	13.25537	1.03188E-06	4.1577E-08	4.85471E-07	1.6E-06	5.4E-10	1.6E-09	9.4E-10	8.6E-10	3.9E-10	1.8E-11	4.4E-10	2.2E-10	2.0E-10	6.2E-11	9.4E-10
196 UCAR	556929.4	3777433.38	556929.4, 3777433.38	6.3718	7.51775	12.71506	9.76872E-07	3.9517E-08	4.65683E-07	1.5E-06	5.1E-10	1.5E-09	9.0E-10	8.1E-10	3.7E-10	1.7E-11	4.1E-10	2.1E-10	1.9E-10	5.9E-11	9.0E-10
197 UCAR	556949.4	3777433.38	556949.4, 3777433.38	5.98942	7.08024	11.95345	9.18249E-07	3.72172E-08	4.37789E-07	1.4E-06	4.8E-10	1.5E-09	8.4E-10	7.6E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.5E-11	8.4E-10
198 UCAR	556969.4	3777433.38	556969.4, 3777433.38	5.58734	6.60548	10.98963	8.56605E-07	3.47216E-08	4.0249E-07	1.3E-06	4.5E-10	1.4E-09	7.8E-10	7.1E-10	3.2E-10	1.5E-11	3.6E-10	1.9E-10	1.7E-10	5.1E-11	7.8E-10
199 UCAR	556989.4	3777433.38	556989.4, 3777433.38	5.19607	6.13706	9.95401	7.96619E-07	3.22594E-08	3.64566E-07	1.2E-06	4.1E-10	1.2E-09	7.2E-10	6.5E-10	3.0E-10	1.4E-11	3.3E-10	1.7E-10	1.6E-10	4.7E-11	7.2E-10
200 UCAR	557009.4	3777433.

Operational Delivery Truck Risk

	OnSite Travel	OnSite Idle	Off-Site Travel
Emissions Rate (g/s):	1.53312E-07	5.25649E-09	3.66E-08

Discrete Receptor ID			Concentration [µg/m^3] at 1 g/s			Unmitigated				Residential Dose						Risk by Age Group					
X	Y	X, Y	OnSite Travel	OnSite Idle	Off-Site Travel	OnSite Travel	OnSite Idle	Off-Site Travel	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
241 UCAR	556829.4	3777453.38	556829.4, 3777453.38	6.69009	7.45573	11.15481	1.02567E-06	3.9191E-08	4.08539E-07	1.5E-06	5.1E-10	1.5E-09	8.9E-10	8.1E-10	3.7E-10	1.7E-11	4.1E-10	2.1E-10	1.9E-10	5.8E-11	8.9E-10
242 UCAR	556849.4	3777453.38	556849.4, 3777453.38	6.54694	7.39769	11.16617	1.00372E-06	3.88859E-08	4.08955E-07	1.5E-06	5.0E-10	1.5E-09	8.8E-10	8.0E-10	3.6E-10	1.7E-11	4.1E-10	2.1E-10	1.9E-10	5.7E-11	8.8E-10
243 UCAR	556869.4	3777453.38	556869.4, 3777453.38	6.38183	7.30116	11.12056	9.7841E-07	3.83785E-08	4.07285E-07	1.4E-06	4.9E-10	1.5E-09	8.6E-10	7.8E-10	3.6E-10	1.6E-11	4.0E-10	2.0E-10	1.9E-10	5.6E-11	8.6E-10
244 UCAR	556889.4	3777453.38	556889.4, 3777453.38	6.1583	7.11174	10.96082	9.4414E-07	3.73828E-08	4.01434E-07	1.4E-06	4.8E-10	1.4E-09	8.4E-10	7.6E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.5E-11	8.4E-10
245 UCAR	556909.4	3777453.38	556909.4, 3777453.38	5.91553	6.87968	10.72999	9.0692E-07	3.6163E-08	3.9298E-07	1.3E-06	4.6E-10	1.4E-09	8.1E-10	7.3E-10	3.3E-10	1.5E-11	3.7E-10	1.9E-10	1.7E-10	5.3E-11	8.1E-10
246 UCAR	556929.4	3777453.38	556929.4, 3777453.38	5.62543	6.57045	10.33364	8.62445E-07	3.45375E-08	3.78464E-07	1.3E-06	4.4E-10	1.3E-09	7.7E-10	7.0E-10	3.2E-10	1.5E-11	3.6E-10	1.8E-10	1.7E-10	5.0E-11	7.7E-10
247 UCAR	556949.4	3777453.38	556949.4, 3777453.38	5.32728	6.23873	9.81939	8.16735E-07	3.27938E-08	3.5963E-07	1.2E-06	4.2E-10	1.3E-09	7.3E-10	6.6E-10	3.0E-10	1.4E-11	3.4E-10	1.7E-10	1.6E-10	4.8E-11	7.3E-10
248 UCAR	556969.4	3777453.38	556969.4, 3777453.38	5.01363	5.87704	9.17112	7.68648E-07	3.08926E-08	3.35888E-07	1.1E-06	3.9E-10	1.2E-09	6.9E-10	6.2E-10	2.8E-10	1.3E-11	3.2E-10	1.6E-10	1.5E-10	4.5E-11	6.9E-10
249 UCAR	556989.4	3777453.38	556989.4, 3777453.38	4.69797	5.5053	8.44481	7.20254E-07	2.89385E-08	3.09287E-07	1.1E-06	3.7E-10	1.1E-09	6.4E-10	5.8E-10	2.6E-10	1.2E-11	3.0E-10	1.5E-10	1.4E-10	4.2E-11	6.4E-10
250 UCAR	557009.4	3777453.38	557009.4, 3777453.38	4.39318	5.14219	7.70572	6.73526E-07	2.70299E-08	2.82218E-07	9.8E-07	3.4E-10	1.0E-09	5.9E-10	5.4E-10	2.5E-10	1.1E-11	2.7E-10	1.4E-10	1.3E-10	3.9E-11	5.9E-10
251 UCAR	557029.4	3777453.38	557029.4, 3777453.38	4.10684	4.79898	7.00053	6.29627E-07	2.52258E-08	2.56391E-07	9.1E-07	3.2E-10	9.5E-10	5.5E-10	5.0E-10	2.3E-10	1.1E-11	2.5E-10	1.3E-10	1.2E-10	3.6E-11	5.5E-10
252 UCAR	557049.4	3777453.38	557049.4, 3777453.38	3.83781	4.47515	6.34532	5.88381E-07	2.35236E-08	2.32394E-07	8.4E-07	2.9E-10	8.8E-10	5.1E-10	4.6E-10	2.1E-10	9.8E-12	2.4E-10	1.2E-10	1.1E-10	3.3E-11	5.1E-10
253 UCAR	557069.4	3777453.38	557069.4, 3777453.38	3.58821	4.17422	5.75287	5.50115E-07	2.19417E-08	2.10696E-07	7.8E-07	2.7E-10	8.2E-10	4.7E-10	4.3E-10	2.0E-10	9.0E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.7E-10
254 UCAR	557089.4	3777453.38	557089.4, 3777453.38	3.35193	3.88877	5.21408	5.1389E-07	2.04413E-08	1.90963E-07	7.3E-07	2.5E-10	7.6E-10	4.4E-10	4.0E-10	1.8E-10	8.4E-12	2.0E-10	1.0E-10	9.5E-11	2.9E-11	4.4E-10
255 UCAR	557109.4	3777453.38	557109.4, 3777453.38	3.13449	3.62626	4.73726	4.80554E-07	1.90614E-08	1.735E-07	6.7E-07	2.3E-10	7.0E-10	4.1E-10	3.7E-10	1.7E-10	7.8E-12	1.9E-10	9.7E-11	8.8E-11	2.7E-11	4.1E-10
256 UCAR	557129.4	3777453.38	557129.4, 3777453.38	2.92958	3.37887	4.30834	4.49139E-07	1.7761E-08	1.57791E-07	6.2E-07	2.2E-10	6.5E-10	3.8E-10	3.4E-10	1.6E-10	7.2E-12	1.7E-10	9.0E-11	8.1E-11	2.5E-11	3.8E-10
257 UCAR	557149.4	3777453.38	557149.4, 3777453.38	2.74518	3.15684	3.93594	4.20868E-07	1.65939E-08	1.44152E-07	5.8E-07	2.0E-10	6.1E-10	3.5E-10	3.2E-10	1.5E-10	6.7E-12	1.6E-10	8.4E-11	7.6E-11	2.3E-11	3.5E-10
258 UCAR	557169.4	3777453.38	557169.4, 3777453.38	2.56767	2.94311	3.59475	3.93654E-07	1.54704E-08	1.31656E-07	5.4E-07	1.9E-10	5.7E-10	3.3E-10	3.0E-10	1.4E-10	6.3E-12	1.5E-10	7.8E-11	7.0E-11	2.1E-11	3.3E-10
259 UCAR	557189.4	3777453.38	557189.4, 3777453.38	2.4124	2.75695	3.30446	3.69849E-07	1.44919E-08	1.21024E-07	5.1E-07	1.7E-10	5.3E-10	3.1E-10	2.8E-10	1.3E-10	5.8E-12	1.4E-10	7.3E-11	6.6E-11	2.0E-11	3.1E-10
260 UCAR	557209.4	3777453.38	557209.4, 3777453.38	2.27212	2.58922	3.05033	3.48343E-07	1.36102E-08	1.11717E-07	4.7E-07	1.6E-10	5.0E-10	2.9E-10	2.6E-10	1.2E-10	5.5E-12	1.3E-10	6.8E-11	6.2E-11	1.9E-11	2.9E-10
261 UCAR	557229.4	3777453.38	557229.4, 3777453.38	2.13791	2.42891	2.81698	3.27767E-07	1.27675E-08	1.0317E-07	4.4E-07	1.5E-10	4.6E-10	2.7E-10	2.4E-10	1.1E-10	5.1E-12	1.2E-10	6.4E-11	5.8E-11	1.8E-11	2.7E-10
262 UCAR	557249.4	3777453.38	557249.4, 3777453.38	2.02029	2.28896	2.61682	3.09734E-07	1.20319E-08	9.58397E-08	4.2E-07	1.4E-10	4.4E-10	2.5E-10	2.3E-10	1.0E-10	4.8E-12	1.2E-10	6.0E-11	5.4E-11	1.6E-11	2.5E-10
263 UCAR	557269.4	3777453.38	557269.4, 3777453.38	1.90835	2.15596	2.43292	2.92572E-07	1.13328E-08	8.91044E-08	3.9E-07	1.4E-10	4.1E-10	2.4E-10	2.2E-10	9.8E-11	4.5E-12	1.1E-10	5.7E-11	5.1E-11	1.6E-11	2.4E-10
264 UCAR	557289.4	3777453.38	557289.4, 3777453.38	1.80509	2.03359	2.26785	2.76742E-07	1.06895E-08	8.30588E-08	3.7E-07	1.3E-10	3.9E-10	2.2E-10	2.0E-10	9.3E-11	4.3E-12	1.0E-10	5.3E-11	4.8E-11	1.5E-11	2.2E-10
265 UCAR	557309.4	3777453.38	557309.4, 3777453.38	1.712	1.92362	2.12211	2.6247E-07	1.01115E-08	7.77212E-08	3.5E-07	1.2E-10	3.7E-10	2.1E-10	1.9E-10	8.8E-11	4.0E-12	9.8E-11	5.0E-11	4.6E-11	1.4E-11	2.1E-10
266 UCAR	557329.4	3777453.38	557329.4, 3777453.38	1.62407	1.81997	1.9882	2.48989E-07	9.56665E-09	7.28168E-08	3.3E-07	1.1E-10	3.5E-10	2.0E-10	1.8E-10	8.3E-11	3.8E-12	9.3E-11	4.8E-11	4.3E-11	1.3E-11	2.0E-10
267 UCAR	557349.4	3777453.38	557349.4, 3777453.38	1.54315	1.72484	1.86753	2.36583E-07	9.0666E-09	6.83973E-08	3.1E-07	1.1E-10	3.3E-10	1.9E-10	1.7E-10	7.9E-11	3.6E-12	8.8E-11	4.5E-11	4.1E-11	1.2E-11	1.9E-10
268 UCAR	557369.4	3777453.38	557369.4, 3777453.38	1.46478	1.6329	1.75392	2.24568E-07	8.58332E-09	6.42364E-08	3E-07	1.0E-10	3.1E-10	1.8E-10	1.6E-10	7.4E-11	3.4E-12	8.3E-11	4.3E-11	3.9E-11	1.2E-11	1.8E-10
269 UCAR	557389.4	3777453.38	557389.4, 3777453.38	1.39554	1.55196	1.65465	2.13953E-07	8.15786E-09	6.06007E-08	2.8E-07	9.8E-11	3.0E-10	1.7E-10	1.6E-10	7.1E-11	3.3E-12	7.9E-11	4.1E-11	3.7E-11	1.1E-11	1.7E-10
270 UCAR	557409.4	3777453.38	557409.4, 3777453.38	1.33356	1.47973	1.56678	2.0445E-07	7.77818E-09	5.73825E-08	2.7E-07	9.3E-11	2.8E-10	1.6E-10	1.5E-10	6.7E-11	3.1E-12	7.5E-11	3.9E-11	3.5E-11	1.1E-11	1.6E-10
271 UCAR	557429.4	3777453.38	557429.4, 3777453.38	1.27255	1.40876	1.48251	1.95097E-07	7.40513E-09	5.42962E-08	2.6E-07	8.9E-11	2.7E-10	1.6E-10	1.4E-10	6.4E-11	3.0E-12	7.2E-11	3.7E-11	3.3E-11	1.0E-11	1.6E-10
272 UCAR	557449.4	3777453.38	557449.4, 3777453.38	1.21559	1.34266	1.40506	1.86364E-07	7.05768E-09	5.14596E-08	2.4E-07	8.5E-11	2.6E-10	1.5E-10	1.3E-10	6.1E-11	2.8E-12	6.8E-11	3.5E-11	3.2E-11	9.7E-12	1.5E-10
273 UCAR	557469.4	3777453.38	557469.4, 3777453.38	1.16162	1.28021	1.33294	1.7809E-07	6.72941E-09	4.88182E-08	2.3E-07	8.1E-11	2.4E-10	1.4E-10	1.3E-10	5.8E-11	2.7E-12	6.5E-11	3.4E-11	3.0E-11	9.2E-12	1.4E-10
274 UCAR	557489.4	3777453.38	557489.4, 3777453.38	1.11038	1.22106	1.26554	1.70234E-07	6.41849E-09	4.63498E-08	2.2E-07	7.7E-11	2.3E-10	1.3E-10	1.2E-10	5.6E-11	2.6E-12	6.2E-11	3.2E-11	2.9E-11	8.8E-12	1.3E-10
275 UCAR	556509.4	3777473.38	556509.4, 3777473.38	4.48936	4.23432	4.93269	6.88272E-07	2.22577E-08	1.80657E-07	8.9E-07	3.1E-10	9.3E-10	5.4E-10	4.9E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.2E-10	3.5E-11	5.4E-10
276 UCAR	556529.4	3777473.38	556529.4, 3777473.38	4.68773	4.48354	5.16144	7.18684E-07	2.35677E-08	1.89035E-07	9.3E-07	3.2E-10	9.7E-10	5.6E-10	5.1E-10	2.3E-10	1.1E-11	2.6E-10	1.3E-10	1.2E-10	3.7E-11	5.6E-10
277 UCAR	556549.4	3777473.38	556549.4, 3777473.38	4.88632	4.74321	5.40773	7.4913E-07	2.49326E-08	1.98055E-07	9.7E-07	3.4E-10	1.0E-09	5.9E-10	5.3E-10	2.4E-10	1.1E-11	2.7E-10	1.4E-10	1.3E-10	3.8E-11	5.9E-10
278 UCAR	556569.4	3777473.38	556569.4, 3777473.38	5.0838	5.01059	5.67844	7.79406E-07	2.63381E-08	2.0797E-07	1E-06	3.5E-10	1.1E-09	6.1E-10	5.6E-10	2.5E-10	1.2E-11	2.8E-10	1.5E-10	1.3E-10	4.0E-11	6.1E-10
279 UCAR	556589.4	3777473.38	556589.4, 3777473.38	5.26495	5.26827	5.96901	8.07179E-07	2.76926E-08	2.18612E-07	1.1E-06	3.6E-10	1.1E-09	6.4E-10	5.8E-10	2.6E-10	1.2E-11	2.9E-10	1.5E-10	1.4E-10	4.2E-11	6.4E-10
280 UCAR	556609.4	3777473.38	556609.4, 3777473.38	5.43318	5.515	6.28735	8.3297E-07	2.89895E-08	2.30271E-07	1.1E-06	3.8E-10	1.1E-09	6.6E-10	6.0E-10	2.7E-10	1.3E-11	3.0E-10	1.6E-10	1.4E-10	4.3E-11	6.6E-10
281 UCAR	556629.4	3777473.38	556629.4, 3777473.38	5.58707	5.74457	6.6337	8.56564E-07	3.01963E-08	2.42956E-07	1.1E-06	3.9E-10	1.2E-09	6.8E-10	6.2E-10	2.8E-10	1.3E-11	3.2E-10	1.6E-10	1.5E-10	4.5E-11	6.8E-10
282 UCAR	556649.4	3777473.38	556649.4, 3777473.38	5.72225	5.94756	7.00202	8.77288E-07	3.12633E-08	2.56445E-07	1.2E-06	4.0E-10	1.2E-09	7.0E-10	6.4E-10	2.9E-10	1.3E-11	3.3E-10	1.7E-10	1.5E-10	4.6E-11	7.0E-10
283 UCAR	556669.4	3777473.38	556669.4, 3777473.38	5.8297	6.10987	7.37947	8.93762E-07	3.21165E-08	2.70269E-07	1.2E-06	4.1E-10	1.3E-09	7.2E-10	6.6E-10	3.0E-10	1.4E-11	3.3E-10	1.7E-10	1.6E-10	4.7E-11	7.2E-10
284 UCAR	556689.4	3777473.38	556689.4, 3777473.38	5.91349	6.23398	7.75958	9.06608E-07	3.27688E-08	2.84191E-07	1.2E-06	4.2E-10	1.3E-09	7.4E-10	6.7E-10	3.1E-10	1.4E-11	3.4E-10	1.8E-10	1.6E-10	4.8E-11	7.4E-10
285 UCAR	556709.4	3777473.38	556709.4, 3777473.38	5.97859	6.32752	8.13405	9.16588E-07	3.32605E-08	2.97905E-07	1.2E-06	4.3E-10	1.3E-09	7.5E-10	6.8E-10	3.1E-10	1.4E-11	3.5E-10	1.8E-10	1.6E-10	4.9E-11	7.5E-10
286 UCAR	556729.4	3777473.38	556729.4, 3777473.38	6.02379	6.39517	8.48657	9.23518E-07	3.36161E-08	3.10816E-07	1.3E-06	4.4E-10	1.3E-09	7.7E-10	7.0E-10	3.2E-10	1.5E-11	3.5E-10	1.8E-10	1.7E-10	5.0E-11	7.7E-10
287 UCAR	556749.4	3777473.38	556749.4, 3777473.38	6.03478	6.42886	8.78871	9.25203E-07	3.37932E-08	3.21882E-07	1.3E-06	4.4E-10	1.3E-09	7.8E-10	7.0E-10	3.2E-10	1.5E-11	3.6E-10	1.8E-10	1.7E-10	5.1E-11	7.7E-10
288 UCAR	556769.4	3777473.38	556769.4, 3777473.38	6.02909	6.45863	9.03636	9.2433E-07	3.39497E-08	3.30952E-07	1.3E-06	4.5E-10	1.3E-09	7.8E-10	7.1E-10	3.2E-10	1.5E-11	3.6E-10	1.9E-10	1.7E-10	5.1E-11	7.8E-10
289 UCAR	556789.4	3777473.38	556789.4, 3777473.38	5.99079	6.47088	9.20123	9.18459E-07	3.40141E-08	3.3699E-07	1.3E-06	4.5E-10	1.3E-09	7.8E-10	7.1E-10	3.2E-10	1.5E-11	3.6E-10	1.9E-10	1.7E-10	5.1E-11	7.8E-10
290 UCAR	556809.4	3777473.38	556809.4, 3777473.38	5.93417	6.48127	9.29383	9.09778E-07	3.40687E-08	3.40382E-07	1.3E-06	4.4E-10	1.3E-09	7.8E-10	7.0E-10	3.2E-10	1.5E-11	3.6E-10	1.8E-10	1.7E-10	5.1E-11	7.8E-10
291 UCAR	556829.4	3777473.38	556829.4, 3777473.38	5.8553	6.47702	9.32034	8.97686E-07	3.40464E-08	3.41353E-07	1.3E-06	4.4E-10	1.3E-09	7.7E-10	7.0E-10	3.2E-10	1.5E-11	3.6E-10	1.8E-10	1.7E-10	5.0E-11	7.7E-10
292 UCAR	556849.4	3777473.38	556849.4, 3777473.38	5.75138	6.44378	9.29526	8.81754E-07	3.38717E-08	3.40434E-07	1.3E-06	4.3E-10	1.3E-09	7.6E-10	6.9E-10	3.1E-10	1.5E-11	3.5E-10	1.8E-10	1.6E-10	5.0E-11	7.6E-10
293 UCAR	556869.4	3777473.38	556869.4, 3777473.38	5.62044	6.36969	9.23068	8.6168E-07	3.34822E-08	3.38069E-07	1.2E-06	4.3E-10	1.3E-09	7.5E-10	6.8E-10	3.1E-10	1.4E-11	3.4E-10	1.8E-10	1.6E-10	4.9E-11	7.5E-10
294 UCAR	556889.4	3777473.38	556889.4, 3777473.38	5.44102	6.222	9.09116	8.34172E-07	3.27059E-08	3.32959E-07	1.2E-06	4.2E-10	1.3E-09	7.3E-10	6.6E-10	3.0E-10	1.4E-11	3.4E-10	1.7E-10	1.6E-10	4.7E-11	7.3E-10
295 UCAR	556909.4	3777473.38	556909.4, 3777473.38	5.24887	6.04506	8.91385	8.04713E-07	3.17758E-08	3.26465E-07	1.2E-06	4.0E-10	1.2E-09	7.0E-10	6.4E-10	2.9E-10	1.3E-11	3.2E-10	1.7E-10	1.5E-10	4.6E-11	7.0E-10
296 UCAR	556929.4	3777473.38	556929.4, 3777473.38	5.0255	5.8162	8.63863	7.70468E-07	3.05728E-08	3.16385E-07	1.1E-06	3.9E-10	1.2E-09	6.8E-10	6.1E-10	2.8E-10	1.3E-11	3.1E-10	1.6E-10	1.5E-10	4.4E-11	6.8E-10
297 UCAR	556949.4	3777473.38	556949.4, 3777473.38	4.78411	5.55403	8.26569	7.3346E-07	2.91947E-08	3.02727E-07	1.1E-06	3.7E-10	1.1E-09	6.4E-10	5.8E-10	2.7E-10	1.2E-11	3.0E-10	1.5E-10	1.4E-10	4.2E-11	6.4E-10
298 UCAR	556969.4	3777473.38	556969.4, 3777473.38	4.52958	5.26658	7.79956	6.94438E-07	2.76837E-08	2.856555E-07	1E-06	3.5E-10	1.1E-09	6.1E-10	5.6E-10	2.5E-10	1.2E-11	2.8E-10	1.4E-10	1.3E-10	4.0E-11	6.1E-10
299 UCAR	556989.4	3777473.38	556989.4, 3777473.38	4.27228	4.96893	7.27353	6.54991E-07	2.61191E-08	2.66389E-07	9.5E-07	3.3E-10	9.9E-10	5.7E-10	5.2E-10	2.4E-10	1.1E-11	2.6E-10	1.4E-10	1.2E-10	3.7E-11	5.7E-10
300 UCAR	557009.4	3777473.38	557009.4, 3777473.38	4.02196	4.67521	6.7284	6.16614E-07	2.45752E-08	2.46424E-07	8.9E-07	3.1E-10	9.3E-10	5.4E-10	4.9E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.2E-10	3.5E-11	5.4E-10
301 UCAR	557029.4	3777473.38	557029.4, 3777473.38	3.77806	4.38597	6.18355	5.79221E-07	2.30548E-08	2.26469E-07	8.3E-07	2.9E-10	8.7E-10	5.0E-10	4.5E-10	2.1E-10	9.6E-12	2.3E-10	1.2E-10	1.1E-10	3.3E-11	5.0E-10
302 UCAR	557049.4	3777473.38	557049.4, 3777473.38	3.54616	4.10935	5.66477	5.43668E-07	2.16007E-08	2.07469E-07	7.7E-07	2.7E-10	8.1E-10	4.7E-10	4.2E-10	1.9E-10	8.9E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.7E-10
303 UCAR	557069.4	3777473.38	557069.4, 3777473.38	3.33254	3.85412	5.19189	5.10918E-07	2.02591E-08	1.9015E-07	7.2E-07	2.5E-10	7.5E-10	4.4E-10	4.0E-10	1.8E-10	8.3E-12	2.0E-10	1.0E-10	9.4E-11	2.8E-11	4.4E-10
304 UCAR	557089.4	3777473.38	557089.4, 3777473.38	3.12716	3.60794	4.75063	4.7943E-07	1.89651E-08	1.73989E-07	6.7E-07	2.3E-10	7.0E-10	4.1E-10	3.7E-10	1.7E-10	7.8E-12	1.9E-10	9.7E-11	8.8E-11	2.7E-11	4.1E-10
305 UCAR	557109.4	3777473.38	557109.4, 3777473.38	2.93849	3.38192	4.35623	4.50505E-07	1.7777E-08	1.59545E-07	6.3E-07	2.2E-10	6.6E-10	3.8E-10	3.4E-10	1.6E-10	7.3E-12	1.8E-10	9.0E-11	8.2E-11	2.5E-11	3.8E-10
306 UCAR	557129.4	3777473.38	557129.4, 3777473.38	2.75711	3.1644	3.9921	4.22697E-07	1.66336E-08	1.46209E-07	5.9E-07	2.0E-10	6.1E-10	3.5E-10	3.2E-10	1.5E-10	6.8E-12	1.6E-10	8.4E-11	7.6E-11	2.3E-11	3.5E-10
307 UCAR	557149.4	3777473.38	557149.4, 3777473.38	2.59514	2.97075	3.67527	3.97865E-07	1.56157E-08	1.34605E-07	5.5E-07	1.9E-10	5.7E-10	3.3E-10	3.0E-10	1.4E-10	6.3E-12	1.5E-10	7.9E-11	7.1E-11	2.2E-11	3.3E-10
308 UCAR	557169.4	3777473.38	557169.4, 3777473.38	2.4362	2.78057	3.37819	3.73498E-07	1.4616E-08	1.23724E-07	5.1E-07	1.8E-10	5.3E-10	3.1E-10	2.8E-10	1.3E-10	5.9E-12	1.4E-10	7.4E-11	6.7E-11	2.0E-11	3.1E-10
309 UCAR	557189.4	3777473.38	557189.4, 3777473.38	2.2951	2.61236	3.12085	3.51866E-07	1.37318E-08	1.143E-07	4.8E-07	1.7E-10	5.0E-10	2.9E-10	2.6E-10	1.2E-10	5.5E-12	1.3E-10	6.9E-11	6.3E-11	1.9E-11	2.9E-10
310 UCAR	557209.4	3777473.38	557209.4, 3777473.38	2.16614	2.459	2.89229	3.32095E-07	1.29257E-08	1.05929E-07	4.5E-07	1.6E-10	4.7E-10	2.7E-10	2.5E-10	1.1E-10	5.2E-12	1.3E-10	6.5E-11	5.9E-11	1.8E-11	2.7E-10
311 UCAR	557229.4	3777473.38	557229.4, 3777473.38	2.045	2.31516	2.6844	3.13523E-07	1.21696E-08	9.83148E-08	4.2E-07	1.5E-10	4.4E-10	2.6E-10	2.3E-10	1.1E-10	4.9E-12	1.2E-10	6.1E-11	5.5E-11	1.7E-11	2.6E-10
312 UCAR	557249.4	3777473.38	557249.4, 3777473.38	1.93693	2.18726	2.50277	2.96954E-07	1.14973E-08	9.16627E-08	4E-07	1.4E-10	4.2E-10	2.4E-10	2.2E-10	1.0E-10	4.6E-12	1.1E-10	5.8E-11	5.2E-11	1.6E-11	2.4E-10
313 UCAR	557269.4	3777473.38	557269.4, 3777473.38	1.83339	2.06487	2.33431	2.8108E-07	1.0854E-08	8.54929E-08	3.8E-07	1.3E-10	3.9E-10	2.3E-10	2.1E-10	9.4E-11	4.4E-12	1.1E-10	5.4E-11	4.9E-11	1.5E-11	2.3E-10
314 UCAR	557289.4	3777473.38	557289.4, 3777473.38	1.73825	1.95269	2.18309	2.66494E-07	1.02643E-08	7.99545E-08	3.6E-07	1.2E-10	3.7E-10	2.2E-10	2.0E-10	8.9E-11	4.1E-12	1.0E-10	5.1E-11	4.6E-11	1.4E-11	2.2E-10
315 UCAR	557309.4	3777473.38	557309.4, 3777473.38	1.65144	1.85062	2.04789	2.53185E-07	9.72776E-09	7.50029E-08	3.4E-07	1.2E-10	3.5E-10	2.0E-10	1.9E-10	8.5E-11	3.9E-12	9.4E-11	4.9E-11	4.4E-11	1.3E-11	2.0E-10
316 UCAR	557329.4	3777473.38	557329.4, 3777473.38	1.57099	1.75623	1.92525	2.40851E-07	9.2316E-09	7.05113E-08	3.2E-07	1.1E-10	3.4E-10	1.9E-10	1.8E-10	8.0E-11	3.7E-12	9.0E-11	4.6E-11	4.2E-11	1.3E-11	1.9E-10
317 UCAR	557349.4	3777473.38	557349.4, 3777473.38	1.49472	1.66693	1.81176	2.29158E-07	8.7622E-09	6.63548E-08	3E-07	1.1E-10	3.2E-10	1.8E-10	1.7E-10	7.6E-11	3.5E-12	8.5E-11	4.4E-11	4.0E-11	1.2E-11	1.8E-10
318 UCAR	557369.4	3777473.38	557369.4, 3777473.38	1.42417	1.58453	1.70868	2.18342E-07	8.32906E-09	6.25795E-08	2.9E-07	1.0E-10	3.0E-10	1.8E-10	1.6E-10	7.2E-11	3.3E-12	8.1E-11	4.2E-11	3.8E-11	1.1E-11	1.7E-10
319 UCAR	557389.4	3777473.38	557389.4, 3777473.38	1.35724	1.50653	1.61295	2.08081E-07	7.91906E-09	5.90735E-08	2.8E-07	9.5E-11	2.9E-10	1.7E-10	1.5E-10	6.9E-11	3.2E-12	7.7E-11	4.0E-11	3.6E-11	1.1E-11	1.7E-10
320 UCAR	557409.4

Operational Delivery Truck Risk

	OnSite Travel	OnSite Idle	Off-Site Travel
Emissions Rate (g/s):	1.53312E-07	5.25649E-09	3.66E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s			Unmitigated				Residential Dose					Risk by Age Group					
	X	Y	X, Y	OnSite Travel	OnSite Idle	Off-Site Travel	OnSite Travel	OnSite Idle	Off-Site Travel	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
361	UCAR	557229.4	3777493.38	557229.4, 3777493.38	1.95485	2.20539	2.553	2.99701E-07	1.15926E-08	9.35023E-08	4E-07	1.4E-10	4.2E-10	2.4E-10	2.2E-10	1.0E-10	4.7E-12	1.1E-10	5.8E-11	5.3E-11	1.6E-11	2.4E-10
362	UCAR	557249.4	3777493.38	557249.4, 3777493.38	1.85354	2.08604	2.38589	2.84169E-07	1.09652E-08	8.7382E-08	3.8E-07	1.3E-10	4.0E-10	2.3E-10	2.1E-10	9.6E-11	4.4E-12	1.1E-10	5.5E-11	5.0E-11	1.5E-11	2.3E-10
363	UCAR	557269.4	3777493.38	557269.4, 3777493.38	1.76028	1.97642	2.23535	2.69872E-07	1.0389E-08	8.18685E-08	3.6E-07	1.3E-10	3.8E-10	2.2E-10	2.0E-10	9.1E-11	4.2E-12	1.0E-10	5.2E-11	4.7E-11	1.4E-11	2.2E-10
364	UCAR	557289.4	3777493.38	557289.4, 3777493.38	1.67282	1.87381	2.09747	2.56463E-07	9.84966E-09	7.68188E-08	3.4E-07	1.2E-10	3.6E-10	2.1E-10	1.9E-10	8.6E-11	4.0E-12	9.6E-11	4.9E-11	4.5E-11	1.4E-11	2.1E-10
365	UCAR	557309.4	3777493.38	557309.4, 3777493.38	1.59071	1.77766	1.97092	2.43875E-07	9.34425E-09	7.21839E-08	3.3E-07	1.1E-10	3.4E-10	2.0E-10	1.8E-10	8.1E-11	3.8E-12	9.1E-11	4.7E-11	4.2E-11	1.3E-11	2.0E-10
366	UCAR	557329.4	3777493.38	557329.4, 3777493.38	1.51551	1.68983	1.85699	2.32346E-07	8.88257E-09	6.80113E-08	3.1E-07	1.1E-10	3.2E-10	1.9E-10	1.7E-10	7.7E-11	3.6E-12	8.6E-11	4.4E-11	4.0E-11	1.2E-11	1.9E-10
367	UCAR	557349.4	3777493.38	557349.4, 3777493.38	1.44564	1.6084	1.75306	2.21634E-07	8.45454E-09	6.42049E-08	2.9E-07	1.0E-10	3.1E-10	1.8E-10	1.6E-10	7.4E-11	3.4E-12	8.2E-11	4.2E-11	3.8E-11	1.2E-11	1.8E-10
368	UCAR	557369.4	3777493.38	557369.4, 3777493.38	1.37968	1.53166	1.65685	2.11521E-07	8.05115E-09	6.06813E-08	2.8E-07	9.7E-11	2.9E-10	1.7E-10	1.5E-10	7.0E-11	3.2E-12	7.8E-11	4.0E-11	3.7E-11	1.1E-11	1.7E-10
369	UCAR	557389.4	3777493.38	557389.4, 3777493.38	1.31884	1.46106	1.56943	2.02194E-07	7.68004E-09	5.74796E-08	2.7E-07	9.3E-11	2.8E-10	1.6E-10	1.5E-10	6.7E-11	3.1E-12	7.5E-11	3.8E-11	3.5E-11	1.1E-11	1.6E-10
370	UCAR	557409.4	3777493.38	557409.4, 3777493.38	1.2615	1.39465	1.48844	1.93403E-07	7.33096E-09	5.45133E-08	2.6E-07	8.8E-11	2.7E-10	1.5E-10	1.4E-10	6.4E-11	3.0E-12	7.1E-11	3.7E-11	3.3E-11	1.0E-11	1.5E-10
371	UCAR	557429.4	3777493.38	557429.4, 3777493.38	1.20434	1.32856	1.40971	1.84639E-07	6.98356E-09	5.16299E-08	2.4E-07	8.4E-11	2.5E-10	1.5E-10	1.3E-10	6.1E-11	2.8E-12	6.8E-11	3.5E-11	3.2E-11	9.6E-12	1.5E-10
372	UCAR	557449.4	3777493.38	557449.4, 3777493.38	1.15465	1.27128	1.34147	1.77021E-07	6.68247E-09	4.91306E-08	2.3E-07	8.1E-11	2.4E-10	1.4E-10	1.3E-10	5.8E-11	2.7E-12	6.5E-11	3.3E-11	3.0E-11	9.2E-12	1.4E-10
373	UCAR	557469.4	3777493.38	557469.4, 3777493.38	1.10843	1.21812	1.27876	1.69935E-07	6.40303E-09	4.68339E-08	2.2E-07	7.7E-11	2.3E-10	1.4E-10	1.2E-10	5.6E-11	2.6E-12	6.2E-11	3.2E-11	2.9E-11	8.8E-12	1.3E-10
374	UCAR	557489.4	3777493.38	557489.4, 3777493.38	1.06301	1.16597	1.21833	1.62972E-07	6.12891E-09	4.46207E-08	2.1E-07	7.4E-11	2.2E-10	1.3E-10	1.2E-10	5.3E-11	2.5E-12	6.0E-11	3.1E-11	2.8E-11	8.4E-12	1.3E-10
375	UCAR	556509.4	3777513.38	556509.4, 3777513.38	3.85648	3.74585	4.25474	5.91244E-07	1.969E-08	1.55828E-07	7.7E-07	2.7E-10	8.0E-10	4.6E-10	4.2E-10	1.9E-10	8.9E-12	2.1E-10	1.1E-10	1.0E-10	3.0E-11	4.6E-10
376	UCAR	556529.4	3777513.38	556529.4, 3777513.38	3.99031	3.92502	4.43413	6.11761E-07	2.06318E-08	1.62398E-07	7.9E-07	2.8E-10	8.3E-10	4.8E-10	4.4E-10	2.0E-10	9.2E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.8E-10
377	UCAR	556549.4	3777513.38	556549.4, 3777513.38	4.11382	4.0982	4.6226	6.30697E-07	2.15421E-08	1.693E-07	8.2E-07	2.8E-10	8.6E-10	5.0E-10	4.5E-10	2.1E-10	9.5E-12	2.3E-10	1.2E-10	1.1E-10	3.2E-11	5.0E-10
378	UCAR	556569.4	3777513.38	556569.4, 3777513.38	4.24124	4.27706	4.83579	6.50232E-07	2.24823E-08	1.77108E-07	8.5E-07	2.9E-10	8.9E-10	5.1E-10	4.7E-10	2.1E-10	9.8E-12	2.4E-10	1.2E-10	1.1E-10	3.4E-11	5.1E-10
379	UCAR	556589.4	3777513.38	556589.4, 3777513.38	4.34836	4.43482	5.05608	6.66655E-07	2.33116E-08	1.85176E-07	8.8E-07	3.0E-10	9.1E-10	5.3E-10	4.8E-10	2.2E-10	1.0E-11	2.4E-10	1.3E-10	1.1E-10	3.5E-11	5.3E-10
380	UCAR	556609.4	3777513.38	556609.4, 3777513.38	4.43952	4.57216	5.28667	6.80631E-07	2.40335E-08	1.93622E-07	9E-07	3.1E-10	9.4E-10	5.4E-10	4.9E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.2E-10	3.5E-11	5.4E-10
381	UCAR	556629.4	3777513.38	556629.4, 3777513.38	4.52905	4.70163	5.53676	6.94357E-07	2.47141E-08	2.027781E-07	9.2E-07	3.2E-10	9.6E-10	5.6E-10	5.1E-10	2.3E-10	1.1E-11	2.6E-10	1.3E-10	1.2E-10	3.6E-11	5.6E-10
382	UCAR	556649.4	3777513.38	556649.4, 3777513.38	4.59805	4.80107	5.78464	7.04935E-07	2.52368E-08	2.11859E-07	9.4E-07	3.3E-10	9.8E-10	5.7E-10	5.2E-10	2.4E-10	1.1E-11	2.6E-10	1.4E-10	1.2E-10	3.7E-11	5.7E-10
383	UCAR	556669.4	3777513.38	556669.4, 3777513.38	4.65339	4.87728	6.02799	7.13419E-07	2.56374E-08	2.20772E-07	9.6E-07	3.3E-10	1.0E-09	5.8E-10	5.3E-10	2.4E-10	1.1E-11	2.7E-10	1.4E-10	1.3E-10	3.8E-11	5.8E-10
384	UCAR	556689.4	3777513.38	556689.4, 3777513.38	4.69032	4.92639	6.25243	7.19081E-07	2.58955E-08	2.28992E-07	9.7E-07	3.4E-10	1.0E-09	5.9E-10	5.3E-10	2.4E-10	1.1E-11	2.7E-10	1.4E-10	1.3E-10	3.8E-11	5.9E-10
385	UCAR	556709.4	3777513.38	556709.4, 3777513.38	4.72177	4.96659	6.45931	7.23903E-07	2.61068E-08	2.36569E-07	9.9E-07	3.4E-10	1.0E-09	6.0E-10	5.4E-10	2.5E-10	1.1E-11	2.8E-10	1.4E-10	1.3E-10	3.9E-11	6.0E-10
386	UCAR	556729.4	3777513.38	556729.4, 3777513.38	4.74508	5.00015	6.63568	7.27477E-07	2.62832E-08	2.43028E-07	1E-06	3.5E-10	1.0E-09	6.0E-10	5.5E-10	2.5E-10	1.2E-11	2.8E-10	1.4E-10	1.3E-10	3.9E-11	6.0E-10
387	UCAR	556749.4	3777513.38	556749.4, 3777513.38	4.74273	5.01247	6.75633	7.27116E-07	2.6348E-08	2.47447E-07	1E-06	3.5E-10	1.0E-09	6.1E-10	5.5E-10	2.5E-10	1.2E-11	2.8E-10	1.4E-10	1.3E-10	4.0E-11	6.0E-10
388	UCAR	556769.4	3777513.38	556769.4, 3777513.38	4.73652	5.03247	6.83827	7.26164E-07	2.64531E-08	2.50448E-07	1E-06	3.5E-10	1.0E-09	6.1E-10	5.5E-10	2.5E-10	1.2E-11	2.8E-10	1.4E-10	1.3E-10	4.0E-11	6.1E-10
389	UCAR	556789.4	3777513.38	556789.4, 3777513.38	4.70922	5.04138	6.86561	7.21979E-07	2.65E-08	2.51449E-07	1E-06	3.5E-10	1.0E-09	6.1E-10	5.5E-10	2.5E-10	1.2E-11	2.8E-10	1.4E-10	1.3E-10	3.9E-11	6.0E-10
390	UCAR	556809.4	3777513.38	556809.4, 3777513.38	4.66289	5.03895	6.84712	7.14876E-07	2.64872E-08	2.50772E-07	9.9E-07	3.4E-10	1.0E-09	6.0E-10	5.4E-10	2.5E-10	1.1E-11	2.8E-10	1.4E-10	1.3E-10	3.9E-11	6.0E-10
391	UCAR	556829.4	3777513.38	556829.4, 3777513.38	4.61439	5.03984	6.81764	7.0744E-07	2.64919E-08	2.49693E-07	9.8E-07	3.4E-10	1.0E-09	6.0E-10	5.4E-10	2.5E-10	1.1E-11	2.7E-10	1.4E-10	1.3E-10	3.9E-11	5.9E-10
392	UCAR	556849.4	3777513.38	556849.4, 3777513.38	4.5443	5.01588	6.7649	6.96695E-07	2.63659E-08	2.47761E-07	9.7E-07	3.4E-10	1.0E-09	5.9E-10	5.3E-10	2.4E-10	1.1E-11	2.7E-10	1.4E-10	1.3E-10	3.8E-11	5.9E-10
393	UCAR	556869.4	3777513.38	556869.4, 3777513.38	4.4612	4.97271	6.70657	6.83954E-07	2.6139E-08	2.45625E-07	9.6E-07	3.3E-10	1.0E-09	5.8E-10	5.2E-10	2.4E-10	1.1E-11	2.7E-10	1.4E-10	1.2E-10	3.8E-11	5.8E-10
394	UCAR	556889.4	3777513.38	556889.4, 3777513.38	4.35319	4.89314	6.62204	6.67395E-07	2.57207E-08	2.42529E-07	9.4E-07	3.2E-10	9.8E-10	5.7E-10	5.1E-10	2.3E-10	1.1E-11	2.6E-10	1.3E-10	1.2E-10	3.7E-11	5.7E-10
395	UCAR	556909.4	3777513.38	556909.4, 3777513.38	4.22128	4.77692	6.4995	6.47172E-07	2.51098E-08	2.38041E-07	9.1E-07	3.2E-10	9.5E-10	5.5E-10	5.0E-10	2.3E-10	1.1E-11	2.5E-10	1.3E-10	1.2E-10	3.6E-11	5.5E-10
396	UCAR	556929.4	3777513.38	556929.4, 3777513.38	4.07851	4.64007	6.34353	6.25284E-07	2.43905E-08	2.32329E-07	8.8E-07	3.1E-10	9.2E-10	5.3E-10	4.8E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.1E-10	3.5E-11	5.3E-10
397	UCAR	556949.4	3777513.38	556949.4, 3777513.38	3.91955	4.47638	6.13393	6.00913E-07	2.353E-08	2.24652E-07	8.5E-07	2.9E-10	8.9E-10	5.1E-10	4.7E-10	2.1E-10	9.8E-12	2.4E-10	1.2E-10	1.1E-10	3.4E-11	5.1E-10
398	UCAR	556969.4	3777513.38	556969.4, 3777513.38	3.74645	4.28902	5.86873	5.74375E-07	2.25452E-08	2.14939E-07	8.1E-07	2.8E-10	8.5E-10	4.9E-10	4.5E-10	2.0E-10	9.4E-12	2.3E-10	1.2E-10	1.1E-10	3.2E-11	4.9E-10
399	UCAR	556989.4	3777513.38	556989.4, 3777513.38	3.57002	4.09244	5.56865	5.47326E-07	2.15119E-08	2.03949E-07	7.7E-07	2.7E-10	8.1E-10	4.7E-10	4.2E-10	1.9E-10	8.9E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.7E-10
400	UCAR	557009.4	3777513.38	557009.4, 3777513.38	3.39701	3.89606	5.25258	5.20802E-07	2.04796E-08	1.92373E-07	7.3E-07	2.5E-10	7.7E-10	4.4E-10	4.0E-10	1.8E-10	8.5E-12	2.0E-10	1.1E-10	9.6E-11	2.9E-11	4.4E-10
401	UCAR	557029.4	3777513.38	557029.4, 3777513.38	3.2212	3.69295	4.9184	4.93848E-07	1.94119E-08	1.80134E-07	6.9E-07	2.4E-10	7.2E-10	4.2E-10	3.8E-10	1.7E-10	8.0E-12	1.9E-10	1.0E-10	9.0E-11	2.7E-11	4.2E-10
402	UCAR	557049.4	3777513.38	557049.4, 3777513.38	3.05267	3.49651	4.59112	4.6801E-07	1.83794E-08	1.68147E-07	6.5E-07	2.3E-10	6.8E-10	4.0E-10	3.6E-10	1.6E-10	7.6E-12	1.8E-10	9.4E-11	8.5E-11	2.6E-11	4.0E-10
403	UCAR	557069.4	3777513.38	557069.4, 3777513.38	2.88801	3.30314	4.27106	4.42766E-07	1.73629E-08	1.56425E-07	6.2E-07	2.1E-10	6.4E-10	3.7E-10	3.4E-10	1.5E-10	7.1E-12	1.7E-10	8.9E-11	8.0E-11	2.4E-11	3.7E-10
404	UCAR	557089.4	3777513.38	557089.4, 3777513.38	2.73224	3.11959	3.97038	4.18885E-07	1.63981E-08	1.45413E-07	5.8E-07	2.0E-10	6.1E-10	3.5E-10	3.2E-10	1.5E-10	6.7E-12	1.6E-10	8.3E-11	7.6E-11	2.3E-11	3.5E-10
405	UCAR	557109.4	3777513.38	557109.4, 3777513.38	2.58693	2.94816	3.69344	3.96607E-07	1.5497E-08	1.3527E-07	5.5E-07	1.9E-10	5.7E-10	3.3E-10	3.0E-10	1.4E-10	6.3E-12	1.5E-10	7.9E-11	7.1E-11	2.2E-11	3.3E-10
406	UCAR	557129.4	3777513.38	557129.4, 3777513.38	2.44858	2.78471	3.43541	3.75396E-07	1.46378E-08	1.2582E-07	5.2E-07	1.8E-10	5.4E-10	3.1E-10	2.8E-10	1.3E-10	6.0E-12	1.4E-10	7.4E-11	6.7E-11	2.0E-11	3.1E-10
407	UCAR	557149.4	3777513.38	557149.4, 3777513.38	2.3193	2.63205	3.1994	3.55576E-07	1.38353E-08	1.17176E-07	4.9E-07	1.7E-10	5.1E-10	2.9E-10	2.7E-10	1.2E-10	5.6E-12	1.4E-10	7.0E-11	6.3E-11	1.9E-11	2.9E-10
408	UCAR	557169.4	3777513.38	557169.4, 3777513.38	2.19561	2.486	2.97972	3.36613E-07	1.30676E-08	1.09131E-07	4.6E-07	1.6E-10	4.8E-10	2.8E-10	2.5E-10	1.1E-10	5.3E-12	1.3E-10	6.6E-11	6.0E-11	1.8E-11	2.8E-10
409	UCAR	557189.4	3777513.38	557189.4, 3777513.38	2.07702	2.34605	2.77499	3.18432E-07	1.2332E-08	1.01633E-07	4.3E-07	1.5E-10	4.5E-10	2.6E-10	2.4E-10	1.1E-10	5.0E-12	1.2E-10	6.2E-11	5.6E-11	1.7E-11	2.6E-10
410	UCAR	557209.4	3777513.38	557209.4, 3777513.38	1.97193	2.22245	2.5961	3.0232E-07	1.16823E-08	9.50808E-08	4.1E-07	1.4E-10	4.3E-10	2.5E-10	2.2E-10	1.0E-10	4.7E-12	1.1E-10	5.9E-11	5.3E-11	1.6E-11	2.5E-10
411	UCAR	557229.4	3777513.38	557229.4, 3777513.38	1.86865	2.10101	2.42575	2.86486E-07	1.10439E-08	8.88418E-08	3.9E-07	1.3E-10	4.0E-10	2.3E-10	2.1E-10	9.7E-11	4.5E-12	1.1E-10	5.6E-11	5.0E-11	1.5E-11	2.3E-10
412	UCAR	557249.4	3777513.38	557249.4, 3777513.38	1.77743	1.99413	2.27718	2.72501E-07	1.04821E-08	8.34005E-08	3.7E-07	1.3E-10	3.8E-10	2.2E-10	2.0E-10	9.2E-11	4.2E-12	1.0E-10	5.3E-11	4.8E-11	1.4E-11	2.2E-10
413	UCAR	557269.4	3777513.38	557269.4, 3777513.38	1.68991	1.89169	2.1382	2.59083E-07	9.94365E-09	7.83105E-08	3.5E-07	1.2E-10	3.6E-10	2.1E-10	1.9E-10	8.7E-11	4.0E-12	9.7E-11	5.0E-11	4.5E-11	1.4E-11	2.1E-10
414	UCAR	557289.4	3777513.38	557289.4, 3777513.38	1.60823	1.79628	2.01106	2.46561E-07	9.44212E-09	7.3654E-08	3.3E-07	1.1E-10	3.4E-10	2.0E-10	1.8E-10	8.3E-11	3.8E-12	9.2E-11	4.7E-11	4.3E-11	1.3E-11	2.0E-10
415	UCAR	557309.4	3777513.38	557309.4, 3777513.38	1.53373	1.70947	1.89685	2.35139E-07	8.98581E-09	6.94712E-08	3.1E-07	1.1E-10	3.3E-10	1.9E-10	1.7E-10	7.8E-11	3.6E-12	8.8E-11	4.5E-11	4.1E-11	1.2E-11	1.9E-10
416	UCAR	557329.4	3777513.38	557329.4, 3777513.38	1.46369	1.62801	1.79151	2.24401E-07	8.55761E-09	6.56131E-08	3E-07	1.0E-10	3.1E-10	1.8E-10	1.6E-10	7.5E-11	3.5E-12	8.3E-11	4.3E-11	3.9E-11	1.2E-11	1.8E-10
417	UCAR	557349.4	3777513.38	557349.4, 3777513.38	1.39761	1.55128	1.69395	2.1427E-07	8.15428E-09	6.204E-08	2.8E-07	9.8E-11	3.0E-10	1.7E-10	1.6E-10	7.1E-11	3.3E-12	7.9E-11	4.1E-11	3.7E-11	1.1E-11	1.7E-10
418	UCAR	557369.4	3777513.38	557369.4, 3777513.38	1.33538	1.47917	1.60369	2.04729E-07	7.77524E-09	5.87343E-08	2.7E-07	9.4E-11	2.8E-10	1.6E-10	1.5E-10	6.8E-11	3.1E-12	7.6E-11	3.9E-11	3.5E-11	1.1E-11	1.6E-10
419	UCAR	557389.4	3777513.38	557389.4, 3777513.38	1.27833	1.41321	1.52194	1.95983E-07	7.42852E-09	5.57403E-08	2.6E-07	9.0E-11	2.7E-10	1.6E-10	1.4E-10	6.5E-11	3.0E-12	7.2E-11	3.7E-11	3.4E-11	1.0E-11	1.6E-10
420	UCAR	557409.4	3777513.38	557409.4, 3777513.38	1.225	1.35168	1.44662	1.87807E-07	7.10509E-09	5.29817E-08	2.5E-07	8.6E-11	2.6E-10	1.5E-10	1.4E-10	6.2E-11	2.9E-12	6.9E-11	3.6E-11	3.2E-11	9.8E-12	1.5E-10
421	UCAR	557429.4	3777513.38	557429.4, 3777513.38	1.17273	1.29145	1.3743	1.79793E-07	6.78849E-09	5.0333E-08	2.4E-07	8.2E-11	2.5E-10	1.4E-10	1.3E-10	5.9E-11	2.7E-12	6.6E-11	3.4E-11	3.1E-11	9.4E-12	1.4E-10
422	UCAR	557449.4	3777513.38	557449.4, 3777513.38	1.12441	1.23591	1.3082	1.72385E-07	6.49655E-09	4.79122E-08	2.3E-07	7.9E-11	2.4E-10	1.4E-10	1.2E-10	5.7E-11	2.6E-12	6.3E-11	3.3E-11	3.0E-11	9.0E-12	1.4E-10
423	UCAR	557469.4	3777513.38	557469.4, 3777513.38	1.07952	1.18443	1.24749	1.65503E-07	6.22594E-09	4.56887E-08	2.2E-07	7.5E-11	2.3E-10	1.3E-10	1.2E-10	5.4E-11	2.5E-12	6.1E-11	3.1E-11	2.8E-11	8.6E-12	1.3E-10
424	UCAR	557489.4	3777513.38	557489.4, 3777513.38	1.03738	1.13619	1.19114	1.59043E-07	5.97237E-09	4.36249E-08	2.1E-07	7.2E-11	2.2E-10	1.3E-10	1.1E-10	5.2E-11	2.4E-12	5.8E-11	3.0E-11	2.7E-11	8.2E-12	1.3E-10
425	UCAR	556509.4	3777533.38	556509.4, 3777533.38	3.57681	3.51554	3.96344	5.48367E-07	1.84794E-08	1.451597E-07	7.1E-07	2.5E-10	7.4E-10	4.3E-10	3.9E-10	1.8E-10	8.2E-12	2.0E-10	1.0E-10	9.3E-11	2.8E-11	4.3E-10
426	UCAR	556529.4	3777533.38	556529.4, 3777533.38	3.68656	3.66594	4.12321	5.65193E-07	1.927E-08	1.51016-07	7.4E-07	2.5E-10	7.7E-10	4.5E-10	4.0E-10	1.8E-10	8.5E-12	2.1E-10	1.1E-10	9.6E-11	2.9E-11	4.4E-10
427	UCAR	556549.4	3777533.38	556549.4, 3777533.38	3.78637	3.80836	4.29079	5.80495E-07	2.00186E-08	1.57148E-07	7.6E-07	2.6E-10	7.9E-10	4.6E-10	4.2E-10	1.9E-10	8.8E-12	2.1E-10	1.1E-10	9.9E-11	3.0E-11	4.6E-10
428	UCAR	556569.4	3777533.38	556569.4, 3777533.38	3.87825	3.94242	4.47005	5.94581E-07	2.07233E-08	1.63713E-07	7.8E-07	2.7E-10	8.1E-10	4.7E-10	4.3E-10	1.9E-10	9.0E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.7E-10
429	UCAR	556589.4	3777533.38	556589.4, 3777533.38	3.95996	4.06342	4.65957	6.07108E-07	2.13593E-08	1.70654E-07	8E-07	2.8E-10	8.4E-10	4.8E-10	4.4E-10	2.0E-10	9.2E-12	2.2E-10	1.1E-10	1.0E-10	3.2E-11	4.8E-10
430	UCAR	556609.4	3777533.38	556609.4, 3777533.38	4.03288	4.17048	4.85892	6.18288E-07	2.19221E-08	1.779555E-07	8.2E-07	2.8E-10	8.6E-10	5.0E-10	4.5E-10	2.0E-10	9.5E-12	2.3E-10	1.2E-10	1.1E-10	3.2E-11	4.9E-10
431	UCAR	556629.4	3777533.38	556629.4, 3777533.38	4.0958	4.26056	5.06318	6.27934E-07	2.23956E-08	1.85436E-07	8.4E-07	2.9E-10	8.7E-10	5.1E-10	4.6E-10	2.1E-10	9.7E-12	2.3E-10	1.2E-10	1.1E-10	3.3E-11	5.1E-10
432	UCAR	556649.4	3777533.38	556649.4, 3777533.38	4.1466	4.33046	5.26433	6.35723E-07	2.2763E-08	1.92803E-07	8.5E-07	2.9E-10	8.9E-10	5.2E-10	4.7E-10	2.1E-10	9.8E-12	2.4E-10	1.2E-10	1.1E-10	3.4E-11	5.1E-10
433	UCAR	556669.4	3777533.38	556669.4, 3777533.38	4.18126	4.37612	5.45046	6.41036E-07	2.3003E-08	1.9962E-07	8.6E-07	3.0E-10	9.0E-10	5.2E-10	4.7E-10	2.2E-10	1.0E-11	2.4E-10	1.2E-10	1.1E-10	3.4E-11	5.2E-10
434	UCAR	556689.4	3777533.38	556689.4, 3777533.38	4.21142	4.41259	5.62428	6.4566E-07	2.31947E-08	2.05986E-07	8.7E-07	3.0E-10	9.1E-10	5.3E-10	4.8E-10	2.2E-10	1.0E-11	2.4E-10	1.3E-10	1.1E-10	3.5E-11	5.3E-10
435	UCAR	556709.4	3777533.38	556709.4, 3777533.38	4.23793	4.4444	5.7783	6.49725E-07	2.33619E-08	2.11627E-07	8.8E-07	3.1E-10	9.2E-10	5.4E-10	4.9E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.2E-10	3.5E-11	5.3E-10
436	UCAR	556729.4	3777533.38	556729.4, 3777533.38	4.25317	4.46725	5.89716	6.52061E-07	2.3482E-08	2.1598E-07	8.9E-07	3.1E-10	9.3E-10	5.4E-10	4.9E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.2E-10	3.5E-11	5.4E-10
437	UCAR	556749.4	3777533.38	556749.4, 3777533.38	4.2524	4.47974	5.9717	6.51943E-07	2.35477E-08	2.18711E-07	8.9E-07	3.1E-10	9.3E-10	5.4E-10	4.9E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.2E-10	3.5E-11	5.4E-10
438	UCAR	556769.4	3777533.38	556769.4, 3777533.38	4.24364	4.49334	6.00973	6.506E-07	2.36192E-08	2.201037E-07	8.9E-07	3.1E-10	9.3E-10	5.4E-10	4.9E-10	2.2E-10	1.0E-11	2.5E-10	1.3E-10	1.2E-10	3.5E-11	5.4E-10
439	UCAR	556789.4	3777533.38	556789.4, 3777533.38	4.22493	4.5059	6.01408	6.47731E-07	2.36852E-08	2.20263E-07	8.9E-07	3.1E-10	9.3E-10	5.4E-10	4.9E-10	2.2E-10	1

Operational Delivery Truck Risk

	OnSite Travel	OnSite Idle	Off-Site Travel
Emissions Rate (g/s):	1.53312E-07	5.25649E-09	3.66E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s			Unmitigated				Residential Dose					Risk by Age Group					
	X	Y	X, Y	OnSite Travel	OnSite Idle	Off-Site Travel	OnSite Travel	OnSite Idle	Off-Site Travel	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
481	UCAR	556629.4	3777553.38	556629.4, 3777553.38	3.72139	3.87443	4.63892	5.70533E-07	2.03659E-08	1.69898E-07	7.6E-07	2.6E-10	8.0E-10	4.6E-10	4.2E-10	1.9E-10	8.8E-12	2.1E-10	1.1E-10	9.9E-11	3.0E-11	4.6E-10
482	UCAR	556649.4	3777553.38	556649.4, 3777553.38	3.75907	3.92333	4.80057	5.7631E-07	2.06229E-08	1.75818E-07	7.7E-07	2.7E-10	8.1E-10	4.7E-10	4.2E-10	1.9E-10	8.9E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.7E-10
483	UCAR	556669.4	3777553.38	556669.4, 3777553.38	3.7801	3.94915	4.94085	5.79534E-07	2.07587E-08	1.80956E-07	7.8E-07	2.7E-10	8.2E-10	4.7E-10	4.3E-10	2.0E-10	9.0E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.7E-10
484	UCAR	556689.4	3777553.38	556689.4, 3777553.38	3.80153	3.97308	5.07022	5.82819E-07	2.08844E-08	1.85694E-07	7.9E-07	2.7E-10	8.3E-10	4.8E-10	4.3E-10	2.0E-10	9.1E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.8E-10
485	UCAR	556709.4	3777553.38	556709.4, 3777553.38	3.82314	3.99802	5.18251	5.86132E-07	2.10155E-08	1.89807E-07	8E-07	2.8E-10	8.3E-10	4.8E-10	4.4E-10	2.0E-10	9.2E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.8E-10
486	UCAR	556729.4	3777553.38	556729.4, 3777553.38	3.83439	4.01561	5.2615	5.87857E-07	2.1108E-08	1.927E-07	8E-07	2.8E-10	8.4E-10	4.9E-10	4.4E-10	2.0E-10	9.3E-12	2.2E-10	1.2E-10	1.0E-10	3.2E-11	4.8E-10
487	UCAR	556749.4	3777553.38	556749.4, 3777553.38	3.82876	4.02138	5.29848	5.86994E-07	2.11383E-08	1.94054E-07	8E-07	2.8E-10	8.4E-10	4.9E-10	4.4E-10	2.0E-10	9.3E-12	2.2E-10	1.2E-10	1.0E-10	3.2E-11	4.8E-10
488	UCAR	556769.4	3777553.38	556769.4, 3777553.38	3.82241	4.03469	5.31335	5.8602E-07	2.12083E-08	1.94599E-07	8E-07	2.8E-10	8.4E-10	4.9E-10	4.4E-10	2.0E-10	9.3E-12	2.2E-10	1.2E-10	1.0E-10	3.2E-11	4.8E-10
489	UCAR	556789.4	3777553.38	556789.4, 3777553.38	3.81071	4.05001	5.30722	5.84227E-07	2.12888E-08	1.94374E-07	8E-07	2.8E-10	8.4E-10	4.8E-10	4.4E-10	2.0E-10	9.2E-12	2.2E-10	1.1E-10	1.0E-10	3.2E-11	4.8E-10
490	UCAR	556809.4	3777553.38	556809.4, 3777553.38	3.78207	4.05228	5.27463	5.79836E-07	2.13008E-08	1.93181E-07	7.9E-07	2.7E-10	8.3E-10	4.8E-10	4.4E-10	2.0E-10	9.2E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.8E-10
491	UCAR	556829.4	3777553.38	556829.4, 3777553.38	3.74781	4.05132	5.23773	5.74583E-07	2.12957E-08	1.91829E-07	7.9E-07	2.7E-10	8.2E-10	4.8E-10	4.3E-10	2.0E-10	9.1E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.8E-10
492	UCAR	556849.4	3777553.38	556849.4, 3777553.38	3.69753	4.03227	5.18944	5.66875E-07	2.11956E-08	1.90061E-07	7.8E-07	2.7E-10	8.1E-10	4.7E-10	4.3E-10	1.9E-10	9.0E-12	2.2E-10	1.1E-10	1.0E-10	3.1E-11	4.7E-10
493	UCAR	556869.4	3777553.38	556869.4, 3777553.38	3.63897	4.00166	5.14111	5.57897E-07	2.10347E-08	1.88291E-07	7.7E-07	2.7E-10	8.0E-10	4.6E-10	4.2E-10	1.9E-10	8.9E-12	2.1E-10	1.1E-10	1.0E-10	3.0E-11	4.6E-10
494	UCAR	556889.4	3777553.38	556889.4, 3777553.38	3.56828	3.9535	5.08414	5.47059E-07	2.07815E-08	1.86204E-07	7.5E-07	2.6E-10	7.9E-10	4.6E-10	4.1E-10	1.9E-10	8.7E-12	2.1E-10	1.1E-10	9.8E-11	3.0E-11	4.6E-10
495	UCAR	556909.4	3777553.38	556909.4, 3777553.38	3.48288	3.88376	5.00759	5.33966E-07	2.04149E-08	1.834E-07	7.4E-07	2.6E-10	7.7E-10	4.5E-10	4.0E-10	1.8E-10	8.5E-12	2.1E-10	1.1E-10	9.6E-11	2.9E-11	4.5E-10
496	UCAR	556929.4	3777553.38	556929.4, 3777553.38	3.38651	3.79653	4.90857	5.19192E-07	1.99564E-08	1.79774E-07	7.2E-07	2.5E-10	7.5E-10	4.3E-10	3.9E-10	1.8E-10	8.3E-12	2.0E-10	1.0E-10	9.4E-11	2.8E-11	4.3E-10
497	UCAR	556949.4	3777553.38	556949.4, 3777553.38	3.26701	3.67683	4.76228	5.00871E-07	1.93272E-08	1.74416E-07	6.9E-07	2.4E-10	7.3E-10	4.2E-10	3.8E-10	1.7E-10	8.0E-12	1.9E-10	1.0E-10	9.1E-11	2.7E-11	4.2E-10
498	UCAR	556969.4	3777553.38	556969.4, 3777553.38	3.14736	3.55286	4.59954	4.82527E-07	1.86756E-08	1.68456E-07	6.7E-07	2.3E-10	7.0E-10	4.1E-10	3.7E-10	1.7E-10	7.7E-12	1.9E-10	9.6E-11	8.7E-11	2.6E-11	4.0E-10
499	UCAR	556989.4	3777553.38	556989.4, 3777553.38	3.01937	3.415	4.40804	4.62905E-07	1.79509E-08	1.61442E-07	6.4E-07	2.2E-10	6.7E-10	3.9E-10	3.5E-10	1.6E-10	7.4E-12	1.8E-10	9.2E-11	8.4E-11	2.5E-11	3.9E-10
500	UCAR	557009.4	3777553.38	557009.4, 3777553.38	2.89478	3.27814	4.20869	4.43804E-07	1.72315E-08	1.54141E-07	6.2E-07	2.1E-10	6.4E-10	3.7E-10	3.4E-10	1.5E-10	7.1E-12	1.7E-10	8.8E-11	8.0E-11	2.4E-11	3.7E-10
501	UCAR	557029.4	3777553.38	557029.4, 3777553.38	2.76661	3.13426	3.99381	4.24154E-07	1.64752E-08	1.46271E-07	5.9E-07	2.0E-10	6.1E-10	3.6E-10	3.2E-10	1.5E-10	6.8E-12	1.6E-10	8.4E-11	7.6E-11	2.3E-11	3.5E-10
502	UCAR	557049.4	3777553.38	557049.4, 3777553.38	2.64308	2.99397	3.78016	4.05215E-07	1.57378E-08	1.38446E-07	5.6E-07	1.9E-10	5.8E-10	3.4E-10	3.1E-10	1.4E-10	6.5E-12	1.6E-10	8.0E-11	7.3E-11	2.2E-11	3.4E-10
503	UCAR	557069.4	3777553.38	557069.4, 3777553.38	2.52117	2.85404	3.56623	3.86525E-07	1.50022E-08	1.30611E-07	5.3E-07	1.8E-10	5.6E-10	3.2E-10	2.9E-10	1.3E-10	6.2E-12	1.5E-10	7.7E-11	6.9E-11	2.1E-11	3.2E-10
504	UCAR	557089.4	3777553.38	557089.4, 3777553.38	2.40168	2.71586	3.35601	3.68206E-07	1.42759E-08	1.22912E-07	5.1E-07	1.7E-10	5.3E-10	3.1E-10	2.8E-10	1.3E-10	5.8E-12	1.4E-10	7.3E-11	6.6E-11	2.0E-11	3.1E-10
505	UCAR	557109.4	3777553.38	557109.4, 3777553.38	2.28624	2.58175	3.15397	3.50507E-07	1.35709E-08	1.15513E-07	4.8E-07	1.7E-10	5.0E-10	2.9E-10	2.6E-10	1.2E-10	5.5E-12	1.3E-10	6.9E-11	6.3E-11	1.9E-11	2.9E-10
506	UCAR	557129.4	3777553.38	557129.4, 3777553.38	2.17932	2.45738	2.96778	3.34115E-07	1.29172E-08	1.08693E-07	4.6E-07	1.6E-10	4.8E-10	2.8E-10	2.5E-10	1.1E-10	5.3E-12	1.3E-10	6.6E-11	5.9E-11	1.8E-11	2.8E-10
507	UCAR	557149.4	3777553.38	557149.4, 3777553.38	2.07734	2.33859	2.79259	3.18481E-07	1.22928E-08	1.02277E-07	4.3E-07	1.5E-10	4.5E-10	2.6E-10	2.4E-10	1.1E-10	5.0E-12	1.2E-10	6.2E-11	5.6E-11	1.7E-11	2.6E-10
508	UCAR	557169.4	3777553.38	557169.4, 3777553.38	1.97792	2.2226	2.62525	3.03238E-07	1.16831E-08	9.61484E-08	4.1E-07	1.4E-10	4.3E-10	2.5E-10	2.3E-10	1.0E-10	4.8E-12	1.1E-10	5.9E-11	5.4E-11	1.6E-11	2.5E-10
509	UCAR	557189.4	3777553.38	557189.4, 3777553.38	1.88324	2.11216	2.46879	2.88723E-07	1.11025E-08	9.04182E-08	3.9E-07	1.4E-10	4.1E-10	2.4E-10	2.1E-10	9.8E-11	4.5E-12	1.1E-10	5.6E-11	5.1E-11	1.5E-11	2.4E-10
510	UCAR	557209.4	3777553.38	557209.4, 3777553.38	1.7942	2.00841	2.32416	2.75072E-07	1.05572E-08	8.51212E-08	3.7E-07	1.3E-10	3.9E-10	2.2E-10	2.0E-10	9.3E-11	4.3E-12	1.0E-10	5.3E-11	4.8E-11	1.5E-11	2.2E-10
511	UCAR	557229.4	3777553.38	557229.4, 3777553.38	1.7088	1.909	2.18825	2.61979E-07	1.00346E-08	8.01435E-08	3.5E-07	1.2E-10	3.7E-10	2.1E-10	1.9E-10	8.8E-11	4.1E-12	9.8E-11	5.1E-11	4.6E-11	1.4E-11	2.1E-10
512	UCAR	557249.4	3777553.38	557249.4, 3777553.38	1.62925	1.81655	2.06361	2.49783E-07	9.54867E-09	7.55787E-08	3.3E-07	1.2E-10	3.5E-10	2.0E-10	1.8E-10	8.4E-11	3.9E-12	9.4E-11	4.8E-11	4.4E-11	1.3E-11	2.0E-10
513	UCAR	557269.4	3777553.38	557269.4, 3777553.38	1.55558	1.73112	1.94986	2.38489E-07	9.09961E-09	7.14126E-08	3.2E-07	1.1E-10	3.3E-10	1.9E-10	1.7E-10	8.0E-11	3.7E-12	8.9E-11	4.6E-11	4.2E-11	1.3E-11	1.9E-10
514	UCAR	557289.4	3777553.38	557289.4, 3777553.38	1.4869	1.65161	1.84536	2.27959E-07	8.68167E-09	6.75854E-08	3E-07	1.1E-10	3.2E-10	1.8E-10	1.7E-10	7.6E-11	3.5E-12	8.5E-11	4.4E-11	4.0E-11	1.2E-11	1.8E-10
515	UCAR	557309.4	3777553.38	557309.4, 3777553.38	1.42217	1.5768	1.74843	2.18035E-07	8.28843E-09	6.40353E-08	2.9E-07	1.0E-10	3.0E-10	1.8E-10	1.6E-10	7.3E-11	3.4E-12	8.1E-11	4.2E-11	3.8E-11	1.1E-11	1.8E-10
516	UCAR	557329.4	3777553.38	557329.4, 3777553.38	1.36133	1.5066	1.65866	2.08708E-07	7.91942E-09	6.07476E-08	2.8E-07	9.6E-11	2.9E-10	1.7E-10	1.5E-10	6.9E-11	3.2E-12	7.7E-11	4.0E-11	3.6E-11	1.1E-11	1.7E-10
517	UCAR	557349.4	3777553.38	557349.4, 3777553.38	1.30487	1.44158	1.57636	2.00052E-07	7.57765E-09	5.77334E-08	2.7E-07	9.2E-11	2.8E-10	1.6E-10	1.5E-10	6.6E-11	3.1E-12	7.4E-11	3.8E-11	3.5E-11	1.0E-11	1.6E-10
518	UCAR	557369.4	3777553.38	557369.4, 3777553.38	1.25129	1.37997	1.49942	1.91837E-07	7.2538E-09	5.491555E-08	2.5E-07	8.8E-11	2.7E-10	1.5E-10	1.4E-10	6.4E-11	2.9E-12	7.1E-11	3.7E-11	3.3E-11	1.0E-11	1.5E-10
519	UCAR	557389.4	3777553.38	557389.4, 3777553.38	1.19917	1.32012	1.42591	1.83847E-07	6.93919E-09	5.22232E-08	2.4E-07	8.4E-11	2.5E-10	1.5E-10	1.3E-10	6.1E-11	2.8E-12	6.8E-11	3.5E-11	3.2E-11	9.6E-12	1.5E-10
520	UCAR	557409.4	3777553.38	557409.4, 3777553.38	1.15171	1.26573	1.3595	1.76571E-07	6.65329E-09	4.9791E-08	2.3E-07	8.1E-11	2.4E-10	1.4E-10	1.3E-10	5.8E-11	2.7E-12	6.5E-11	3.3E-11	3.0E-11	9.2E-12	1.4E-10
521	UCAR	557429.4	3777553.38	557429.4, 3777553.38	1.10656	1.21408	1.29717	1.69649E-07	6.3818E-09	4.75082E-08	2.2E-07	7.7E-11	2.3E-10	1.4E-10	1.2E-10	5.6E-11	2.6E-12	6.2E-11	3.2E-11	2.9E-11	8.8E-12	1.4E-10
522	UCAR	557449.4	3777553.38	557449.4, 3777553.38	1.06441	1.16594	1.23956	1.63187E-07	6.12875E-09	4.53982E-08	2.1E-07	7.4E-11	2.2E-10	1.3E-10	1.2E-10	5.4E-11	2.5E-12	6.0E-11	3.1E-11	2.8E-11	8.5E-12	1.3E-10
523	UCAR	557469.4	3777553.38	557469.4, 3777553.38	1.02384	1.11968	1.18488	1.56967E-07	5.88558E-09	4.33956E-08	2.1E-07	7.1E-11	2.2E-10	1.2E-10	1.1E-10	5.2E-11	2.4E-12	5.8E-11	3.0E-11	2.7E-11	8.1E-12	1.2E-10
524	UCAR	557489.4	3777553.38	557489.4, 3777553.38	0.98407	1.0744	1.13212	1.5087E-07	5.64757E-09	4.14633E-08	2E-07	6.9E-11	2.1E-10	1.2E-10	1.1E-10	5.0E-11	2.3E-12	5.5E-11	2.8E-11	2.6E-11	7.8E-12	1.2E-10
525	1	557438.91	3777336.71	557438.91, 3777336.71	1.39588	1.55293	1.56819	2.14005E-07	8.16296E-09	5.74342E-08	2.8E-07	9.7E-11	2.9E-10	1.7E-10	1.5E-10	7.0E-11	3.2E-12	7.8E-11	4.0E-11	3.6E-11	1.1E-11	1.7E-10
526	1	556615.91	3777136.99	556615.91, 3777136.99	26.07959	9.10063	34.5728	3.99831E-06	4.78374E-08	1.26621E-06	5.3E-06	1.8E-09	5.6E-09	3.2E-09	2.9E-09	1.3E-09	6.1E-11	1.5E-09	7.6E-10	6.9E-10	2.1E-10	3.2E-09
527	1	556586.37	3777056.16	556586.37, 3777056.16	9.14813	5.72665	8.93034	1.40252E-06	3.01021E-08	3.27069E-07	1.8E-06	6.1E-10	1.8E-09	1.1E-09	9.7E-10	4.4E-10	2.0E-11	4.9E-10	2.5E-10	2.3E-10	6.9E-11	1.1E-09
528	UCAR	556672.35	3776929.14	556672.35, 3776929.14	6.4561	4.94425	5.38033	9.89796E-07	2.59894E-08	1.97052E-07	1.2E-06	4.2E-10	1.3E-09	7.3E-10	6.7E-10	3.0E-10	1.4E-11	3.4E-10	1.7E-10	1.6E-10	4.8E-11	7.3E-10
529	UCAR	556692.35	3776929.14	556692.35, 3776929.14	6.97175	5.27672	5.80451	1.06885E-06	2.7737E-08	2.12587E-07	1.3E-06	4.5E-10	1.4E-09	7.9E-10	7.2E-10	3.3E-10	1.5E-11	3.7E-10	1.9E-10	1.7E-10	5.2E-11	7.9E-10
530	UCAR	556712.35	3776929.14	556712.35, 3776929.14	7.52586	5.63018	6.20616	1.1538E-06	2.9595E-08	2.27297E-07	1.4E-06	4.9E-10	1.5E-09	8.5E-10	7.7E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.6E-11	8.5E-10
531	UCAR	556732.35	3776929.14	556732.35, 3776929.14	8.07154	5.99832	6.48951	1.23746E-06	3.15301E-08	2.37675E-07	1.5E-06	5.2E-10	1.6E-09	9.1E-10	8.3E-10	3.8E-10	1.7E-11	4.2E-10	2.2E-10	2.0E-10	5.9E-11	9.1E-10
532	UCAR	556752.35	3776929.14	556752.35, 3776929.14	8.64033	6.39638	6.65872	1.32466E-06	3.36225E-08	2.43872E-07	1.6E-06	5.5E-10	1.7E-09	9.7E-10	8.8E-10	4.0E-10	1.9E-11	4.5E-10	2.3E-10	2.1E-10	6.3E-11	9.7E-10
533	UCAR	556772.35	3776929.14	556772.35, 3776929.14	9.0845	6.80406	6.57685	1.39276E-06	3.57655E-08	2.40874E-07	1.7E-06	5.8E-10	1.7E-09	1.0E-09	9.2E-10	4.2E-10	1.9E-11	4.7E-10	2.4E-10	2.2E-10	6.6E-11	1.0E-09
534	UCAR	556792.35	3776929.14	556792.35, 3776929.14	9.45528	7.26235	6.35764	1.44961E-06	3.81745E-08	2.32845E-07	1.7E-06	6.0E-10	1.8E-09	1.0E-09	9.4E-10	4.3E-10	2.0E-11	4.8E-10	2.5E-10	2.2E-10	6.8E-11	1.0E-09
535	UCAR	556812.35	3776929.14	556812.35, 3776929.14	9.90195	7.82333	6.10424	1.51809E-06	4.11232E-08	2.23565E-07	1.8E-06	6.2E-10	1.9E-09	1.1E-09	9.8E-10	4.5E-10	2.1E-11	5.0E-10	2.6E-10	2.3E-10	7.0E-11	1.1E-09
536	UCAR	556832.35	3776929.14	556832.35, 3776929.14	10.21464	8.46868	5.72775	1.56602E-06	4.45155E-08	2.09776E-07	1.8E-06	6.3E-10	1.9E-09	1.1E-09	1.0E-09	4.6E-10	2.1E-11	5.1E-10	2.6E-10	2.4E-10	7.2E-11	1.1E-09
537	UCAR	556852.35	3776929.14	556852.35, 3776929.14	10.57446	9.26042	5.42551	1.62119E-06	4.86773E-08	1.98707E-07	1.9E-06	6.5E-10	2.0E-09	1.1E-09	1.0E-09	4.7E-10	2.2E-11	5.2E-10	2.7E-10	2.4E-10	7.4E-11	1.1E-09
538	UCAR	556672.35	3776949.14	556672.35, 3776949.14	7.27279	5.40822	6.11509	1.115E-06	2.84282E-08	2.23962E-07	1.4E-06	4.7E-10	1.4E-09	8.3E-10	7.5E-10	3.4E-10	1.6E-11	3.8E-10	2.0E-10	1.8E-10	5.4E-11	8.3E-10
539	UCAR	556692.35	3776949.14	556692.35, 3776949.14	7.90466	5.80638	6.61856	1.21188E-06	3.05212E-08	2.42401E-07	1.5E-06	5.1E-10	1.6E-09	9.0E-10	8.1E-10	3.7E-10	1.7E-11	4.1E-10	2.1E-10	1.9E-10	5.9E-11	9.0E-10
540	UCAR	556712.35	3776949.14	556712.35, 3776949.14	8.56272	6.22906	7.04611	1.31277E-06	3.2743E-08	2.5806E-07	1.6E-06	5.6E-10	1.7E-09	9.7E-10	8.8E-10	4.0E-10	1.9E-11	4.5E-10	2.3E-10	2.1E-10	6.3E-11	9.7E-10
541	UCAR	556732.35	3776949.14	556732.35, 3776949.14	9.2027	6.67449	7.31065	1.41088E-06	3.50844E-08	2.67749E-07	1.7E-06	5.9E-10	1.8E-09	1.0E-09	9.4E-10	4.3E-10	2.0E-11	4.8E-10	2.5E-10	2.2E-10	6.8E-11	1.0E-09
542	UCAR	556752.35	3776949.14	556752.35, 3776949.14	9.78369	7.14298	7.35771	1.49995E-06	3.7547E-08	2.69472E-07	1.8E-06	6.3E-10	1.9E-09	1.1E-09	9.9E-10	4.5E-10	2.1E-11	5.0E-10	2.6E-10	2.4E-10	7.1E-11	1.1E-09
543	UCAR	556772.35	3776949.14	556772.35, 3776949.14	10.30986	7.65222	7.21641	1.58062E-06	4.02238E-08	2.64297E-07	1.9E-06	6.5E-10	2.0E-09	1.1E-09	1.0E-09	4.7E-10	2.2E-11	5.3E-10	2.7E-10	2.5E-10	7.4E-11	1.1E-09
544	UCAR	556792.35	3776949.14	556792.35, 3776949.14	10.83453	8.23064	6.93932	1.66106E-06	4.32643E-08	2.54149E-07	2E-06	6.8E-10	2.0E-09	1.2E-09	1.1E-09	4.9E-10	2.3E-11	5.5E-10	2.8E-10	2.6E-10	7.7E-11	1.2E-09
545	UCAR	556812.35	3776949.14	556812.35, 3776949.14	11.28369	8.90653	6.55685	1.72992E-06	4.68171E-08	2.40141E-07	2E-06	7.0E-10	2.1E-09	1.2E-09	1.1E-09	5.0E-10	2.3E-11	5.6E-10	2.9E-10	2.6E-10	8.0E-11	1.2E-09
546	UCAR	556832.35	3776949.14	556832.35, 3776949.14	11.63342	9.69463	6.0858	1.78354E-06	5.09597E-08	2.22889E-07	2.1E-06	7.1E-10	2.2E-09	1.2E-09	1.1E-09	5.1E-10	2.4E-11	5.7E-10	3.0E-10	2.7E-10	8.1E-11	1.2E-09
547	UCAR	556852.35	3776949.14	556852.35, 3776949.14	12.03865	10.66457	5.72813	1.84567E-06	5.60582E-08	2.0979E-07	2.1E-06	7.3E-10	2.2E-09	1.3E-09	1.2E-09	5.3E-10	2.4E-11	5.9E-10	3.0E-10	2.8E-10	8.3E-11	1.3E-09
548	UCAR	556672.35	3776969.14	556672.35, 3776969.14	8.26786	5.93459	7.03265	1.26756E-06	3.11951E-08	2.57567E-07	1.6E-06	5.4E-10	1.6E-09	9.4E-10	8.5E-10	3.9E-10	1.8E-11	4.3E-10	2.2E-10	2.0E-10	6.1E-11	9.4E-10
549	UCAR	556692.35	3776969.14	556692.35, 3776969.14	9.05145	6.41468	7.63194	1.38769E-06	3.37187E-08	2.79516E-07	1.7E-06	5.9E-10	1.8E-09	1.0E-09	9.3E-10	4.3E-10	2.0E-11	4.7E-10	2.4E-10	2.2E-10	6.7E-11	1.0E-09
550	UCAR	556712.35	3776969.14	556712.35, 3776969.14	9.8572	6.93126	8.10111	1.51122E-06	3.64341E-08	2.96699E-07	1.8E-06	6.4E-10	1.9E-09	1.1E-09	1.0E-09	4.6E-10	2.1E-11	5.1E-10	2.7E-10	2.4E-10	7.3E-11	1.1E-09
551	UCAR	556732.35	3776969.14	556732.35, 3776969.14	10.61682	7.48005	8.3235	1.62768E-06	3.93188E-08	3.04844E-07	2E-06	6.8E-10	2.1E-09	1.2E-09	1.1E-09	4.9E-10	2.3E-11	5.5E-10	2.8E-10	2.6E-10	7.8E-11	1.2E-09
552	UCAR	556752.35	3776969.14	556752.35, 3776969.14	11.28189	8.05973	8.25427	1.72965E-06	4.23659E-08	3.02308E-07	2.1E-06	7.2E-10	2.2E-09	1.3E-09	1.1E-09	5.2E-10	2.4E-11	5.8E-10	3.0E-10	2.7E-10	8.2E-11	1.3E-09
553	UCAR	556772.35	3776969.14	556772.35, 3776969.14	11.8618	8.68654	7.95037	1.81855E-06	4.56607E-08	2.91178E-07	2.2E-06	7.5E-10	2.3E-09	1.3E-09	1.2E-09	5.4E-10	2.5E-11	6.0E-10	3.1E-10	2.8E-10	8.5E-11	1.3E-09
554	UCAR	556792.35	3776969.14	556792.35, 3776969.14	12.44715	9.39887	7.51737	1.90829E-06	4.9405E-08	2.7532E-07	2.2E-06	7.7E-10	2.3E-09	1.4E-09	1.2E-09	5.6E-10	2.6E-11	6.2E-10	3.2E-10	2.9E-10	8.8E-11	1.3E-09
555	UCAR	556812.35	3776969.14	556812.35, 3776969.14	12.94989	10.22646	6.99223	1.98537E-06	5.37553E-08	2.56087E-07	2.3E-06	7.9E-10	2.4E-09	1.4E-09	1.3E-09	5.7E-10	2.7E-11	6.4E-10	3.3E-10	3.0E-10	9.1E-11	1.4E-09
556	UCAR	556832.35	3776969.14	556832.35, 3776969.14	13.39283	11.22598	6.46799	2.05328E-06	5.90092E-08	2.36887E-07	2.3E-06	8.1E-10	2.5E-09	1.4E-09	1.3E-09	5.9E-10	2.7E-11	6.6E-10	3.4E-10	3.1E-10	9.3E-11	1.4E-09
557	UCAR	556852.35	3776969.14	556852.35, 3776969.14	13.85825	12.43098	6.05835	2.12463E-06	6.53433E-08	2.21884E-07	2.4E-06	8.3E-10	2.5E-09	1.5E-09	1.3E-09	6.0E-10	2.8E-11	6.7E-10	3.5E-10	3.1E-10	9.5E-11	1.5E-09
558	UCAR	556672.35	3776989.14	556672.35, 3776989.14	9.50132	6.53246	8.20132	1.45666E-06	3.43378E-08	3.00369E-07	1.8E-06	6.2E-10	1.9E-09	1.1E-09	9.8E-10	4.5E-10	2.1E-11	5.0E-10	2.6E-10	2.3E-10	7.1E-11	1.1E-09
559	UCAR	556692.35	3776989.14	556692.35, 3776989.14	10.48547	7.11532	8.91437	1.60755E-06	3.74016E-08	3.26484E-07	2E-06	6.8E-10	2.1E-09	1.2E-09	1.1E-09	4.9E-10	2.3E

Operational Delivery Truck Risk

	OnSite Travel	OnSite Idle	Off-Site Travel
Emissions Rate (g/s):	1.53312E-07	5.25649E-09	3.66E-08

Discrete Receptor ID			Concentration [µg/m^3] at 1 g/s			Unmitigated				Residential Dose						Risk by Age Group						
X	Y	X, Y	OnSite Travel	OnSite Idle	Off-Site Travel	OnSite Travel	OnSite Idle	Off-Site Travel	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
601 UCAR 556987.54	3776959.53	556987.54, 3776959.53	9.98348	12.37519	6.79823	1.53058E-06	6.505E-08	2.48982E-07	1.8E-06	6.4E-10	1.9E-09	1.1E-09	1.0E-09	4.6E-10	2.1E-11	5.2E-10	2.7E-10	2.4E-10	7.3E-11	1.1E-09
602 UCAR 557007.54	3776959.53	557007.54, 3776959.53	8.81097	10.91998	6.91015	1.35083E-06	5.74007E-08	2.53081E-07	1.7E-06	5.8E-10	1.7E-09	1.0E-09	9.1E-10	4.2E-10	1.9E-11	4.6E-10	2.4E-10	2.2E-10	6.6E-11	1.0E-09
603 UCAR 557027.54	3776959.53	557027.54, 3776959.53	7.70223	9.4597	6.89301	1.18084E-06	4.97248E-08	2.52453E-07	1.5E-06	5.1E-10	1.6E-09	9.0E-10	8.1E-10	3.7E-10	1.7E-11	4.1E-10	2.1E-10	1.9E-10	5.9E-11	9.0E-10
604 UCAR 557047.54	3776959.53	557047.54, 3776959.53	6.70926	8.11905	6.72702	1.02861E-06	4.26777E-08	2.46374E-07	1.3E-06	4.6E-10	1.4E-09	8.0E-10	7.2E-10	3.3E-10	1.5E-11	3.7E-10	1.9E-10	1.7E-10	5.2E-11	8.0E-10
605 UCAR 557067.54	3776959.53	557067.54, 3776959.53	5.8532	6.9606	6.42337	8.97364E-07	3.65883E-08	2.35253E-07	1.2E-06	4.0E-10	1.2E-09	7.1E-10	6.4E-10	2.9E-10	1.4E-11	3.3E-10	1.7E-10	1.5E-10	4.6E-11	7.1E-10
606 UCAR 557087.54	3776959.53	557087.54, 3776959.53	5.1332	5.99839	6.01085	7.8698E-07	3.15305E-08	2.20144E-07	1E-06	3.6E-10	1.1E-09	6.3E-10	5.7E-10	2.6E-10	1.2E-11	2.9E-10	1.5E-10	1.4E-10	4.1E-11	6.3E-10
607 UCAR 556927.54	3776979.53	556927.54, 3776979.53	14.55165	17.1217	6.93831	2.23094E-06	9E-08	2.54112E-07	2.6E-06	8.9E-10	2.7E-09	1.6E-09	1.4E-09	6.4E-10	3.0E-11	7.2E-10	3.7E-10	3.4E-10	1.0E-10	1.6E-09
608 UCAR 556947.54	3776979.53	556947.54, 3776979.53	13.39282	16.3897	7.16695	2.05328E-06	8.61523E-08	2.62486E-07	2.4E-06	8.3E-10	2.5E-09	1.5E-09	1.3E-09	6.0E-10	2.8E-11	6.7E-10	3.5E-10	3.1E-10	9.5E-11	1.5E-09
609 UCAR 556967.54	3776979.53	556967.54, 3776979.53	12.01275	15.01751	7.32978	1.8417E-06	7.89394E-08	2.68449E-07	2.2E-06	7.6E-10	2.3E-09	1.3E-09	1.2E-09	5.5E-10	2.5E-11	6.1E-10	3.1E-10	2.9E-10	8.6E-11	1.3E-09
610 UCAR 556987.54	3776979.53	556987.54, 3776979.53	10.61142	13.28203	7.53657	1.62686E-06	6.98168E-08	2.76023E-07	2E-06	6.8E-10	2.1E-09	1.2E-09	1.1E-09	4.9E-10	2.3E-11	5.5E-10	2.8E-10	2.6E-10	7.8E-11	1.2E-09
611 UCAR 557007.54	3776979.53	557007.54, 3776979.53	9.22509	11.46057	7.62017	1.41431E-06	6.02423E-08	2.79085E-07	1.8E-06	6.1E-10	1.8E-09	1.1E-09	9.6E-10	4.4E-10	2.0E-11	4.9E-10	2.5E-10	2.3E-10	6.9E-11	1.1E-09
612 UCAR 557027.54	3776979.53	557027.54, 3776979.53	7.96971	9.7518	7.53636	1.22185E-06	5.12602E-08	2.76015E-07	1.5E-06	5.4E-10	1.6E-09	9.4E-10	8.5E-10	3.9E-10	1.8E-11	4.3E-10	2.2E-10	2.0E-10	6.1E-11	9.4E-10
613 UCAR 557047.54	3776979.53	557047.54, 3776979.53	6.88584	8.26772	7.27179	1.05568E-06	4.34592E-08	2.66326E-07	1.4E-06	4.7E-10	1.4E-09	8.3E-10	7.5E-10	3.4E-10	1.6E-11	3.8E-10	2.0E-10	1.8E-10	5.4E-11	8.3E-10
614 UCAR 557067.54	3776979.53	557067.54, 3776979.53	5.9803	7.04269	6.85678	9.1685E-07	3.70198E-08	2.51126E-07	1.2E-06	4.2E-10	1.3E-09	7.3E-10	6.6E-10	3.0E-10	1.4E-11	3.4E-10	1.7E-10	1.6E-10	4.8E-11	7.3E-10
615 UCAR 557087.54	3776979.53	557087.54, 3776979.53	5.23506	6.05878	6.33147	8.02596E-07	3.18479E-08	2.31887E-07	1.1E-06	3.7E-10	1.1E-09	6.5E-10	5.8E-10	2.7E-10	1.2E-11	3.0E-10	1.5E-10	1.4E-10	4.2E-11	6.4E-10
616 UCAR 556927.54	3776999.53	556927.54, 3776999.53	16.39048	19.82452	7.68655	2.51285E-06	1.04207E-07	2.81516E-07	2.9E-06	1.0E-09	3.0E-09	1.8E-09	1.6E-09	7.3E-10	3.4E-11	8.1E-10	4.2E-10	3.8E-10	1.1E-10	1.8E-09
617 UCAR 556947.54	3776999.53	556947.54, 3776999.53	14.77419	18.47332	7.89326	2.26506E-06	9.71048E-08	2.89087E-07	2.7E-06	9.2E-10	2.8E-09	1.6E-09	1.5E-09	6.6E-10	3.1E-11	7.4E-10	3.8E-10	3.5E-10	1.0E-10	1.6E-09
618 UCAR 556967.54	3776999.53	556967.54, 3776999.53	13.02064	16.44163	8.18135	1.99622E-06	8.64252E-08	2.99638E-07	2.4E-06	8.2E-10	2.5E-09	1.4E-09	1.3E-09	6.0E-10	2.8E-11	6.7E-10	3.4E-10	3.1E-10	9.4E-11	1.4E-09
619 UCAR 556987.54	3776999.53	556987.54, 3776999.53	11.24956	14.14723	8.40012	1.72469E-06	7.43647E-08	3.07655E-07	2.1E-06	7.3E-10	2.2E-09	1.3E-09	1.2E-09	5.3E-10	2.4E-11	5.9E-10	3.0E-10	2.7E-10	8.3E-11	1.3E-09
620 UCAR 557007.54	3776999.53	557007.54, 3776999.53	9.63111	11.93102	8.43422	1.47656E-06	6.27153E-08	3.08899E-07	1.8E-06	6.4E-10	1.9E-09	1.1E-09	1.0E-09	4.6E-10	2.1E-11	5.2E-10	2.7E-10	2.4E-10	7.3E-11	1.1E-09
621 UCAR 557027.54	3776999.53	557027.54, 3776999.53	8.23169	9.98972	8.24884	1.26201E-06	5.25108E-08	3.0211E-07	1.6E-06	5.6E-10	1.7E-09	9.8E-10	8.9E-10	4.0E-10	1.9E-11	4.5E-10	2.3E-10	2.1E-10	6.4E-11	9.8E-10
622 UCAR 557047.54	3776999.53	557047.54, 3776999.53	7.0662	8.39315	7.85163	1.08333E-06	4.41185E-08	2.87562E-07	1.4E-06	4.9E-10	1.5E-09	8.6E-10	7.8E-10	3.5E-10	1.6E-11	4.0E-10	2.0E-10	1.8E-10	5.6E-11	8.6E-10
623 UCAR 557067.54	3776999.53	557067.54, 3776999.53	6.11791	7.12806	7.29346	9.37948E-07	3.74686E-08	2.67119E-07	1.2E-06	4.3E-10	1.3E-09	7.5E-10	6.8E-10	3.1E-10	1.4E-11	3.5E-10	1.8E-10	1.6E-10	4.9E-11	7.5E-10
624 UCAR 557087.54	3776999.53	557087.54, 3776999.53	5.3536	6.14084	6.64259	8.2077E-07	3.32793E-08	2.43281E-07	1.1E-06	3.8E-10	1.1E-09	6.6E-10	6.0E-10	2.7E-10	1.3E-11	3.1E-10	1.6E-10	1.4E-10	4.3E-11	6.6E-10
625 UCAR 556927.54	3777019.53	556927.54, 3777019.53	18.53433	23.02279	8.61064	2.84153E-06	1.21019E-07	3.1536E-07	3.3E-06	1.1E-09	3.4E-09	2.0E-09	1.8E-09	8.2E-10	3.8E-11	9.2E-10	4.7E-10	4.3E-10	1.3E-10	2.0E-09
626 UCAR 556947.54	3777019.53	556947.54, 3777019.53	16.29019	20.75278	8.8896	2.49748E-06	1.09087E-07	3.25577E-07	2.9E-06	1.0E-09	3.1E-09	1.8E-09	1.6E-09	7.3E-10	3.4E-11	8.2E-10	4.2E-10	3.8E-10	1.2E-10	1.8E-09
627 UCAR 556967.54	3777019.53	556967.54, 3777019.53	14.03318	17.86239	9.21893	2.15145E-06	9.38934E-08	3.37639E-07	2.6E-06	8.9E-10	2.7E-09	1.6E-09	1.4E-09	6.5E-10	3.0E-11	7.2E-10	3.7E-10	3.4E-10	1.0E-10	1.6E-09
628 UCAR 556987.54	3777019.53	556987.54, 3777019.53	11.89054	14.92939	9.41829	1.82296E-06	7.84762E-08	3.4494E-07	2.2E-06	7.8E-10	2.3E-09	1.4E-09	1.2E-09	5.6E-10	2.6E-11	6.3E-10	3.2E-10	2.9E-10	8.9E-11	1.4E-09
629 UCAR 557007.54	3777019.53	557007.54, 3777019.53	10.03428	12.32264	9.36293	1.53837E-06	6.47738E-08	3.42912E-07	1.9E-06	6.7E-10	2.0E-09	1.2E-09	1.1E-09	4.9E-10	2.2E-11	5.4E-10	2.8E-10	2.5E-10	7.7E-11	1.2E-09
630 UCAR 557027.54	3777019.53	557027.54, 3777019.53	8.49865	10.18819	9.03119	1.30294E-06	5.35541E-08	3.30763E-07	1.7E-06	5.8E-10	1.8E-09	1.0E-09	9.3E-10	4.2E-10	2.0E-11	4.7E-10	2.4E-10	2.2E-10	6.7E-11	1.0E-09
631 UCAR 557047.54	3777019.53	557047.54, 3777019.53	7.26188	8.52001	8.462	1.11333E-06	4.47853E-08	3.09916E-07	1.5E-06	5.1E-10	1.5E-09	8.9E-10	8.1E-10	3.7E-10	1.7E-11	4.1E-10	2.1E-10	1.9E-10	5.8E-11	8.9E-10
632 UCAR 557067.54	3777019.53	557067.54, 3777019.53	6.27835	7.242	7.73677	9.62545E-07	3.80675E-08	2.83355E-07	1.3E-06	4.4E-10	1.3E-09	7.8E-10	7.0E-10	3.2E-10	1.5E-11	3.6E-10	1.8E-10	1.7E-10	5.1E-11	7.8E-10
633 UCAR 557087.54	3777019.53	557087.54, 3777019.53	5.49492	6.26107	6.94006	8.42436E-07	3.29112E-08	2.54176E-07	1.1E-06	3.9E-10	1.2E-09	6.8E-10	6.2E-10	2.8E-10	1.3E-11	3.2E-10	1.6E-10	1.5E-10	4.5E-11	6.8E-10
634 UCAR 556927.54	3777039.53	556927.54, 3777039.53	21.03396	26.75448	9.76372	3.22475E-06	1.40635E-07	3.57591E-07	3.7E-06	1.3E-09	3.9E-09	2.3E-09	2.0E-09	9.3E-10	4.3E-11	1.0E-09	5.4E-10	4.9E-10	1.5E-10	2.2E-09
635 UCAR 556947.54	3777039.53	556947.54, 3777039.53	17.95	23.16261	10.11101	2.75195E-06	1.21754E-07	3.70311E-07	3.2E-06	1.1E-09	3.4E-09	2.0E-09	1.8E-09	8.1E-10	3.7E-11	9.1E-10	4.7E-10	4.2E-10	1.3E-10	2.0E-09
636 UCAR 556967.54	3777039.53	556967.54, 3777039.53	15.0842	19.2066	10.47643	2.31259E-06	1.00959E-07	3.83694E-07	2.8E-06	9.7E-10	2.9E-09	1.7E-09	1.5E-09	7.0E-10	3.2E-11	7.8E-10	4.0E-10	3.6E-10	1.1E-10	1.7E-09
637 UCAR 556987.54	3777039.53	556987.54, 3777039.53	12.53764	15.59807	10.61727	1.92217E-06	8.19911E-08	3.88852E-07	2.4E-06	8.3E-10	2.5E-09	1.4E-09	1.3E-09	6.0E-10	2.8E-11	6.7E-10	3.4E-10	3.1E-10	9.4E-11	1.4E-09
638 UCAR 557007.54	3777039.53	557007.54, 3777039.53	10.44541	12.64719	10.41622	1.6014E-06	6.64798E-08	3.81489E-07	2E-06	7.1E-10	2.1E-09	1.2E-09	1.1E-09	5.1E-10	2.4E-11	5.7E-10	2.9E-10	2.7E-10	8.1E-11	1.2E-09
639 UCAR 557027.54	3777039.53	557027.54, 3777039.53	8.78448	10.3804	9.88022	1.34676E-06	5.45644E-08	3.61858E-07	1.8E-06	6.1E-10	1.8E-09	1.1E-09	9.7E-10	4.4E-10	2.0E-11	4.9E-10	2.5E-10	2.3E-10	7.0E-11	1.1E-09
640 UCAR 557047.54	3777039.53	557047.54, 3777039.53	7.48482	8.68212	9.32443	1.14751E-06	4.56375E-08	3.41502E-07	1.5E-06	5.3E-10	1.6E-09	9.3E-10	8.4E-10	3.8E-10	1.8E-11	4.3E-10	2.2E-10	2.0E-10	6.1E-11	9.3E-10
641 UCAR 557067.54	3777039.53	557067.54, 3777039.53	6.46593	7.40655	8.16708	9.91303E-07	3.89324E-08	2.99115E-07	1.3E-06	4.6E-10	1.4E-09	8.0E-10	7.3E-10	3.3E-10	1.5E-11	3.7E-10	1.9E-10	1.7E-10	5.2E-11	8.0E-10
642 UCAR 557087.54	3777039.53	557087.54, 3777039.53	5.66125	6.43188	7.21531	8.67936E-07	3.38091E-08	2.64257E-07	1.2E-06	4.0E-10	1.2E-09	7.1E-10	6.4E-10	2.9E-10	1.3E-11	3.3E-10	1.7E-10	1.5E-10	4.6E-11	7.0E-10
643 UCAR 557047.54	3777059.53	557047.54, 3777059.53	7.67417	8.91269	9.44925	1.17654E-06	4.68494E-08	3.46074E-07	1.6E-06	5.4E-10	1.6E-09	9.5E-10	8.6E-10	3.9E-10	1.8E-11	4.4E-10	2.3E-10	2.0E-10	6.2E-11	9.5E-10
644 UCAR 557067.54	3777059.53	557067.54, 3777059.53	6.62499	7.64057	8.32242	1.01569E-06	4.01626E-08	3.04804E-07	1.4E-06	4.7E-10	1.4E-09	8.2E-10	7.5E-10	3.4E-10	1.6E-11	3.8E-10	2.0E-10	1.8E-10	5.4E-11	8.2E-10
645 UCAR 557087.54	3777059.53	557087.54, 3777059.53	5.79712	6.65881	7.24223	8.88767E-07	3.5002E-08	2.65243E-07	1.2E-06	4.1E-10	1.2E-09	7.2E-10	6.5E-10	3.0E-10	1.4E-11	3.3E-10	1.7E-10	1.5E-10	4.7E-11	7.2E-10
646 UCAR 556919.02	3777174.93	556919.02, 3777174.93	56.16601	68.87098	35.242	8.61091E-06	3.62019E-07	1.29072E-06	1E-05	3.6E-09	1.1E-08	6.2E-09	5.6E-09	2.6E-09	1.2E-10	2.9E-09	1.5E-09	1.3E-09	4.1E-10	6.2E-09
647 UCAR 556939.02	3777174.93	556939.02, 3777174.93	36.04317	45.23921	34.68835	5.52584E-06	2.37799E-07	1.27044E-06	7E-06	2.4E-09	7.4E-09	4.3E-09	3.9E-09	1.8E-09	8.1E-11	2.0E-09	1.0E-09	9.2E-10	2.8E-10	4.3E-09
648 UCAR 556919.02	3777194.93	556919.02, 3777194.93	56.93555	75.48222	47.89141	8.72889E-06	3.96771E-07	1.754E-06	1.1E-05	3.8E-09	1.1E-08	6.6E-09	6.0E-09	2.7E-09	1.3E-10	3.0E-09	1.6E-09	1.4E-09	4.3E-10	6.6E-09
649 UCAR 556939.02	3777194.93	556939.02, 3777194.93	36.1868	47.97612	45.05075	5.54786E-06	2.52186E-07	1.64996E-06	7.5E-06	2.6E-09	7.8E-09	4.5E-09	4.1E-09	1.9E-09	8.6E-11	2.1E-09	1.1E-09	9.7E-10	2.9E-10	4.5E-09
650 UCAR 556919.02	3777214.93	556919.02, 3777214.93	54.58496	71.14756	68.93671	8.36852E-06	3.73986E-07	2.52477E-06	1.1E-05	3.9E-09	1.2E-08	6.8E-09	6.2E-09	2.8E-09	1.3E-10	3.1E-09	1.6E-09	1.5E-09	4.4E-10	6.8E-09
651 UCAR 556939.02	3777214.93	556939.02, 3777214.93	34.8157	46.48033	60.3877	5.33766E-06	2.44323E-07	2.21167E-06	7.8E-06	2.7E-09	8.1E-09	4.7E-09	4.3E-09	2.0E-09	9.0E-11	2.2E-09	1.1E-09	1.0E-09	3.1E-10	4.7E-09
652 UCAR 556919.02	3777234.93	556919.02, 3777234.93	49.99695	60.72029	103.81638	7.66512E-06	3.19175E-07	3.80222E-06	1.2E-05	4.1E-09	1.2E-08	7.1E-09	6.5E-09	2.9E-09	1.4E-10	3.3E-09	1.7E-09	1.5E-09	4.7E-10	7.1E-09
653 UCAR 556939.02	3777234.93	556939.02, 3777234.93	32.1657	41.71519	84.75385	4.9313BE-06	2.19275E-07	3.10407E-06	8.3E-06	2.9E-09	8.6E-09	5.0E-09	4.5E-09	2.1E-09	9.5E-11	2.3E-09	1.2E-09	1.1E-09	3.3E-10	5.0E-09
654 UCAR 556919.02	3777254.93	556919.02, 3777254.93	41.90384	47.94501	173.24652	6.42435E-06	2.52022E-07	6.34506E-06	1.3E-05	4.5E-09	1.4E-08	7.9E-09	7.1E-09	3.3E-09	1.5E-10	3.6E-09	1.9E-09	1.7E-09	5.1E-10	7.9E-09
655 UCAR 556939.02	3777254.93	556939.02, 3777254.93	28.23938	35.34986	129.3976	4.32943E-06	1.85816E-07	4.73912E-06	9.3E-06	3.2E-09	9.7E-09	5.6E-09	5.1E-09	2.3E-09	1.1E-10	2.6E-09	1.3E-09	1.2E-09	3.7E-10	5.6E-09
656 UCAR 557023.57	3777171.57	557023.57, 3777171.57	11.2919	14.18722	15.39238	1.73118E-06	7.4575E-08	5.63738E-07	2.4E-06	8.2E-10	2.5E-09	1.4E-09	1.3E-09	5.9E-10	2.7E-11	6.6E-10	3.4E-10	3.1E-10	9.4E-11	1.4E-09
657 UCAR 557043.57	3777171.57	557043.57, 3777171.57	9.4046	11.70557	12.17132	1.44184E-06	6.15302E-08	4.45768E-07	1.9E-06	6.7E-10	2.0E-09	1.2E-09	1.1E-09	4.9E-10	2.3E-11	5.4E-10	2.8E-10	2.5E-10	7.7E-11	1.2E-09
658 UCAR 557063.57	3777171.57	557063.57, 3777171.57	7.97689	9.82965	9.84743	1.22295E-06	5.16694E-08	3.60657E-07	1.6E-06	5.7E-10	1.7E-09	9.9E-10	9.0E-10	4.1E-10	1.9E-11	4.6E-10	2.4E-10	2.1E-10	6.5E-11	9.9E-10
659 UCAR 557083.57	3777171.57	557083.57, 3777171.57	6.87162	8.38775	8.17595	1.0535E-06	4.40901E-08	2.9944E-07	1.4E-06	4.8E-10	1.5E-09	8.5E-10	7.7E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.5E-11	8.4E-10
660 UCAR 557023.57	3777191.57	557023.57, 3777191.57	11.37238	14.45636	16.21613	1.74352E-06	7.59897E-08	5.93907E-07	2.4E-06	8.4E-10	2.5E-09	1.5E-09	1.3E-09	6.0E-10	2.8E-11	6.7E-10	3.5E-10	3.1E-10	9.5E-11	1.5E-09
661 UCAR 557043.57	3777191.57	557043.57, 3777191.57	9.45816	11.86931	12.66748	1.45005E-06	6.23909E-08	4.6394E-07	2E-06	6.8E-10	2.1E-09	1.2E-09	1.1E-09	4.9E-10	2.3E-11	5.5E-10	2.8E-10	2.6E-10	7.8E-11	1.2E-09
662 UCAR 557063.57	3777191.57	557063.57, 3777191.57	8.01152	9.9315	10.23088	1.22826E-06	5.22048E-08	3.74701E-07	1.7E-06	5.7E-10	1.7E-09	1.0E-09	9.1E-10	4.1E-10	1.9E-11	4.6E-10	2.4E-10	2.2E-10	6.5E-11	1.0E-09
663 UCAR 557083.57	3777191.57	557083.57, 3777191.57	6.89789	8.4609	8.506	1.05753E-06	4.44746E-08	3.11528E-07	1.4E-06	4.9E-10	1.5E-09	8.6E-10	7.8E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.6E-11	8.5E-10
664 UCAR 557023.57	3777211.57	557023.57, 3777211.57	11.25739	14.3914	17.0774	1.72589E-06	7.56482E-08	6.25451E-07	2.4E-06	8.4E-10	2.5E-09	1.5E-09	1.3E-09	6.1E-10	2.8E-11	6.8E-10	3.5E-10	3.2E-10	9.6E-11	1.5E-09
665 UCAR 557043.57	3777211.57	557043.57, 3777211.57	9.3844	11.83769	13.2573	1.43874E-06	6.22247E-08	4.85542E-07	2E-06	6.9E-10	2.1E-09	1.2E-09	1.1E-09	5.0E-10	2.3E-11	5.5E-10	2.9E-10	2.6E-10	7.8E-11	1.2E-09
666 UCAR 557063.57	3777211.57	557063.57, 3777211.57	7.9663	9.92409	10.70098	1.22133E-06	5.21659E-08	3.91918E-07	1.7E-06	5.8E-10	1.7E-09	1.0E-09	9.1E-10	4.2E-10	1.9E-11	4.7E-10	2.4E-10	2.2E-10	6.6E-11	1.0E-09
667 UCAR 557083.57	3777211.57	557083.57, 3777211.57	6.84299	8.41318	8.91021	1.04911E-06	4.42238E-08	3.26332E-07	1.4E-06	4.9E-10	1.5E-09	8.6E-10	7.8E-10	3.6E-10	1.6E-11	4.0E-10	2.0E-10	1.9E-10	5.6E-11	8.6E-10
668 UCAR 557023.57	3777231.57	557023.57, 3777231.57	10.93943	13.9934	18.09565	1.67714E-06	7.35561E-08	6.62744E-07	2.4E-06	8.4E-10	2.5E-09	1.5E-09	1.3E-09	6.0E-10	2.8E-11	6.7E-10	3.5E-10	3.1E-10	9.5E-11	1.5E-09
669 UCAR 557043.57	3777231.57	557043.57, 3777231.57	9.1674	11.58261	13.98071	1.40547E-06	6.08838E-08	5.12036E-07	2E-06	6.8E-10	2.1E-09	1.2E-09	1.1E-09	5.0E-10	2.3E-11	5.5E-10	2.8E-10	2.6E-10	7.8E-11	1.2E-09
670 UCAR 557063.57	3777231.57	557063.57, 3777231.57	7.81495	9.75642	11.23116	1.19812E-06	5.12845E-08	4.11335E-07	1.7E-06	5.7E-10	1.7E-09	1.0E-09	9.1E-10	4.2E-10	1.9E-11	4.6E-10	2.4E-10	2.2E-10	6.6E-11	1.0E-09
671 UCAR 557083.57	3777231.57	557083.57, 3777231.57	6.70706	8.25097	9.33154	1.02827E-06	4.33711E-08	3.41763E-07	1.4E-06	4.9E-10	1.5E-09	8.6E-10	7.8E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.6E-11	8.5E-10
672 UCAR 557023.57	3777251.57	557023.57, 3777251.57	10.43287	13.28924	19.32819	1.59948E-06	6.98547E-08	7.07885E-07	2.4E-06	8.2E-10	2.5E-09	1.4E-09	1.3E-09	5.9E-10	2.7E-11	6.6E-10	3.4E-10	3.1E-10	9.4E-11	1.4E-09
673 UCAR 557043.57	3777251.57	557043.57, 3777251.57	8.81249	11.106	14.77998	1.35106E-06	5.83786E-08	5.41309E-07	2E-06	6.8E-10	2.0E-09	1.2E-09	1.1E-09	4.9E-10	2.3E-11	5.4E-10	2.8E-10	2.5E-10	7.7E-11	1.2E-09
674 UCAR 557063.57	3777251.57	557063.57, 3777251.57	7.56231	9.43097	11.74082	1.15939E-06	4.95738E-08	4.30001E-07	1.6E-06	5.7E-10	1.7E-09	9.9E-10	9.0E-10	4.1E-10	1.9E-11	4.6E-10	2.4E-10	2.1E-10	6.5E-11	9.9E-10
675 UCAR 557083.57	3777251.57	557083.57, 3777251.57	6.49147	7.9769	9.64964	9.95219E-07	4.19305E-08	3.53413E-07	1.4E-06	4.8E-10	1.5E-09	8.4E-10	7.6E-10	3.5E-10	1.6E-11	3.9E-10	2.0E-10	1.8E-10	5.5E-11	8.4E-10
676 UCAR 556249.05	3776972.85	556249.05, 3776972.85	1.60922	1.23095	1.47617	2.46712E-07	6.47047E-09	5.4064E-08	3.1E-07	1.1E-10	3.2E-10	1.9E-10	1.7E-10	7.7E-11	3.6E-12	8.6E-11	4.4E-11	4.0E-11	1.2E-11	1.9E-10
677 UCAR 556269.05	3776972.85	556269.05, 3776972.85	1.64444	1.2748	1.42341	2.52112E-07	6.70097E-09	5.21317E-08	3.1E-07	1.1E-10	3.3E-10	1.9E-10	1.7E-10	7.8E-11	3.6E-12	8.7E-11	4.5E-11	4.1E-11	1.2E-11	1.9E-10
678 UCAR 556229.05	3776992.85	556229.05, 3776992.85	1.64996	1.24556	1.51384	2.52958E-07	6.54727E-09	5.54436E-08	3.1E-07	1.1E-10	3.3E-10	1.9E-10	1.7E-10	7.9E-11	3.6E-12	8.8E-11	4.5E-11	4.1E-11	1.2E-11	1.9E-10
679 UCAR 556249.05	3776992.85	556249.05, 3776992.85	1.67441	1.271	1.58887	2.56707E-07	6.681E-09	5.81915E-08	3.2E-07	1.1E-10	3.4E-10	1.9E-10	1.8E-10	8.0E-11	3.7E-12	9.0E-11	4.6E-11	4.2E-11	1.3E-11	1.9E-10
680 UCAR 556269.05	3776992.85	556269.05, 3776992.85	1.75893	1.33259	1.62446	2.69665E-07	7.00474E-09	5.9495E-08	3.4E-07	1.2E-10

Operational Delivery Truck Risk

	OnSite Travel	OnSite Idle	Off-Site Travel
Emissions Rate (g/s):	1.53312E-07	5.25649E-09	3.66E-08

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s			Unmitigated				Residential Dose					Risk by Age Group					
	X	Y	X, Y	OnSite Travel	OnSite Idle	Off-Site Travel	OnSite Travel	OnSite Idle	Off-Site Travel	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
721	UCAR	556441.69	3776987.49	556441.69, 3776987.49	2.51287	1.92146	2.32261	3.85253E-07	1.01001E-08	8.50644E-08	4.8E-07	1.7E-10	5.0E-10	2.9E-10	2.6E-10	1.2E-10	5.6E-12	1.3E-10	6.9E-11	6.3E-11	1.9E-11	2.9E-10
722	UCAR	556461.69	3776987.49	556461.69, 3776987.49	2.68369	2.03039	2.47888	4.11441E-07	1.06727E-08	9.07877E-08	5.1E-07	1.8E-10	5.4E-10	3.1E-10	2.8E-10	1.3E-10	5.9E-12	1.4E-10	7.4E-11	6.7E-11	2.0E-11	3.1E-10
723	UCAR	556481.69	3776987.49	556481.69, 3776987.49	2.91188	2.17566	2.68801	4.46425E-07	1.14363E-08	9.8447E-08	5.6E-07	1.9E-10	5.8E-10	3.4E-10	3.1E-10	1.4E-10	6.4E-12	1.6E-10	8.0E-11	7.2E-11	2.2E-11	3.4E-10
724	UCAR	556421.69	3777007.49	556421.69, 3777007.49	2.51305	1.91693	2.3532	3.8528E-07	1.00763E-08	8.61847E-08	4.8E-07	1.7E-10	5.0E-10	2.9E-10	2.6E-10	1.2E-10	5.6E-12	1.3E-10	6.9E-11	6.3E-11	1.9E-11	2.9E-10
725	UCAR	556441.69	3777007.49	556441.69, 3777007.49	2.67924	2.02034	2.50892	4.10759E-07	1.06199E-08	9.18879E-08	5.1E-07	1.8E-10	5.4E-10	3.1E-10	2.8E-10	1.3E-10	5.9E-12	1.4E-10	7.4E-11	6.7E-11	2.0E-11	3.1E-10
726	UCAR	556461.69	3777007.49	556461.69, 3777007.49	2.89308	2.15392	2.70971	4.43543E-07	1.13221E-08	9.92417E-08	5.5E-07	1.9E-10	5.8E-10	3.4E-10	3.0E-10	1.4E-10	6.4E-12	1.5E-10	8.0E-11	7.2E-11	2.2E-11	3.3E-10
727	UCAR	556481.69	3777007.49	556481.69, 3777007.49	3.17925	2.33255	2.97913	4.87416E-07	1.2261E-08	1.09109E-07	6.1E-07	2.1E-10	6.4E-10	3.7E-10	3.3E-10	1.5E-10	7.0E-12	1.7E-10	8.8E-11	7.9E-11	2.4E-11	3.7E-10
728	UCAR	556441.69	3777027.49	556441.69, 3777027.49	2.88995	2.14731	2.74666	4.43063E-07	1.12873E-08	1.00595E-07	5.5E-07	1.9E-10	5.8E-10	3.4E-10	3.0E-10	1.4E-10	6.4E-12	1.5E-10	8.0E-11	7.2E-11	2.2E-11	3.4E-10
729	UCAR	556461.69	3777027.49	556461.69, 3777027.49	3.10424	2.27334	2.95397	4.75916E-07	1.19498E-08	1.08188E-07	6E-07	2.1E-10	6.2E-10	3.6E-10	3.3E-10	1.5E-10	6.9E-12	1.7E-10	8.6E-11	7.8E-11	2.4E-11	3.6E-10
730	UCAR	556481.69	3777027.49	556481.69, 3777027.49	3.4402	2.47656	3.28055	5.27423E-07	1.3018E-08	1.20148E-07	6.6E-07	2.3E-10	6.9E-10	4.0E-10	3.6E-10	1.7E-10	7.6E-12	1.8E-10	9.5E-11	8.6E-11	2.6E-11	4.0E-10
731	1	556251.24	3777154.95	556251.24, 3777154.95	2.33196	1.93628	2.22497	3.57517E-07	1.0178E-08	8.14884E-08	4.5E-07	1.6E-10	4.7E-10	2.7E-10	2.5E-10	1.1E-10	5.2E-12	1.3E-10	6.5E-11	5.9E-11	1.8E-11	2.7E-10
732	1	556261.28	3777141.2	556261.28, 3777141.2	2.36606	1.96047	2.24865	3.62745E-07	1.03052E-08	8.23556E-08	4.6E-07	1.6E-10	4.8E-10	2.8E-10	2.5E-10	1.1E-10	5.3E-12	1.3E-10	6.5E-11	5.9E-11	1.8E-11	2.8E-10
733	1	556264.98	3777168.16	556264.98, 3777168.16	2.48742	2.04741	2.39658	3.81351E-07	1.07622E-08	8.77735E-08	4.8E-07	1.7E-10	5.0E-10	2.9E-10	2.6E-10	1.2E-10	5.5E-12	1.3E-10	6.9E-11	6.3E-11	1.9E-11	2.9E-10
734	1	556279.25	3777151.77	556279.25, 3777151.77	2.5572	2.09496	2.45593	3.92049E-07	1.10121E-08	8.99472E-08	4.9E-07	1.7E-10	5.2E-10	3.0E-10	2.7E-10	1.2E-10	5.7E-12	1.4E-10	7.1E-11	6.4E-11	1.9E-11	3.0E-10
735	1	556202.6	3777113.45	556202.6, 3777113.45	1.89223	1.61563	1.75623	2.90101E-07	8.49254E-09	6.4321E-08	3.6E-07	1.3E-10	3.8E-10	2.2E-10	2.0E-10	9.1E-11	4.2E-12	1.0E-10	5.2E-11	4.7E-11	1.4E-11	2.2E-10
736	1	556220.05	3777109.75	556220.05, 3777109.75	1.98285	1.68367	1.84196	3.03994E-07	8.85019E-09	6.74608E-08	3.8E-07	1.3E-10	4.0E-10	2.3E-10	2.1E-10	9.5E-11	4.4E-12	1.1E-10	5.5E-11	5.0E-11	1.5E-11	2.3E-10
737	1	556187.53	3777090.19	556187.53, 3777090.19	1.75977	1.51552	1.62257	2.69793E-07	7.96631E-09	5.94258E-08	3.4E-07	1.2E-10	3.5E-10	2.0E-10	1.8E-10	8.4E-11	3.9E-12	9.4E-11	4.8E-11	4.4E-11	1.3E-11	2.0E-10
738	1	556164.27	3777121.38	556164.27, 3777121.38	1.72649	1.48163	1.61051	2.64691E-07	7.78817E-09	5.89841E-08	3.3E-07	1.1E-10	3.5E-10	2.0E-10	1.8E-10	8.3E-11	3.8E-12	9.3E-11	4.8E-11	4.3E-11	1.3E-11	2.0E-10
739	UCAR	557510.26	3776508.23	557510.26, 3776508.23	1.24285	1.32635	1.28116	1.90544E-07	6.97194E-09	4.69218E-08	2.4E-07	8.5E-11	2.6E-10	1.5E-10	1.3E-10	6.1E-11	2.8E-12	6.8E-11	3.5E-11	3.2E-11	9.6E-12	1.5E-10
740	UCAR	557530.26	3776508.23	557530.26, 3776508.23	1.1968	1.27538	1.22572	1.83484E-07	6.70402E-09	4.48914E-08	2.4E-07	8.1E-11	2.5E-10	1.4E-10	1.3E-10	5.9E-11	2.7E-12	6.6E-11	3.4E-11	3.1E-11	9.3E-12	1.4E-10
741	UCAR	557550.26	3776508.23	557550.26, 3776508.23	1.15331	1.22796	1.17493	1.76816E-07	6.45476E-09	4.30312E-08	2.3E-07	7.8E-11	2.4E-10	1.4E-10	1.2E-10	5.7E-11	2.6E-12	6.3E-11	3.3E-11	2.9E-11	8.9E-12	1.4E-10
742	UCAR	557570.26	3776508.23	557570.26, 3776508.23	1.11257	1.18396	1.12869	1.7057E-07	6.22347E-09	4.13377E-08	2.2E-07	7.6E-11	2.3E-10	1.3E-10	1.2E-10	5.5E-11	2.5E-12	6.1E-11	3.1E-11	2.8E-11	8.6E-12	1.3E-10
743	UCAR	557590.26	3776508.23	557590.26, 3776508.23	1.07564	1.14425	1.08737	1.64908E-07	6.01474E-09	3.98244E-08	2.1E-07	7.3E-11	2.2E-10	1.3E-10	1.2E-10	5.3E-11	2.4E-12	5.9E-11	3.0E-11	2.7E-11	8.3E-12	1.3E-10
744	UCAR	557610.26	3776508.23	557610.26, 3776508.23	1.0426	1.10876	1.05076	1.59843E-07	5.82818E-09	3.84835E-08	2E-07	7.1E-11	2.1E-10	1.2E-10	1.1E-10	5.1E-11	2.4E-12	5.7E-11	2.9E-11	2.7E-11	8.1E-12	1.2E-10
745	UCAR	557630.26	3776508.23	557630.26, 3776508.23	1.00988	1.0739	1.01642	1.54826E-07	5.64494E-09	3.72259E-08	2E-07	6.8E-11	2.1E-10	1.2E-10	1.1E-10	4.9E-11	2.3E-12	5.5E-11	2.8E-11	2.6E-11	7.8E-12	1.2E-10
746	UCAR	557650.26	3776508.23	557650.26, 3776508.23	0.97962	1.04167	0.98528	1.50187E-07	5.47553E-09	3.60854E-08	1.9E-07	6.6E-11	2.0E-10	1.2E-10	1.1E-10	4.8E-11	2.2E-12	5.4E-11	2.8E-11	2.5E-11	7.6E-12	1.2E-10
747	UCAR	557670.26	3776508.23	557670.26, 3776508.23	0.94847	1.00869	0.95485	1.45412E-07	5.30217E-09	3.49709E-08	1.9E-07	6.4E-11	1.9E-10	1.1E-10	1.0E-10	4.6E-11	2.1E-12	5.2E-11	2.7E-11	2.4E-11	7.3E-12	1.1E-10
748	UCAR	557690.26	3776508.23	557690.26, 3776508.23	0.91725	0.97572	0.92529	1.40625E-07	5.12886E-09	3.38883E-08	1.8E-07	6.2E-11	1.9E-10	1.1E-10	9.9E-11	4.5E-11	2.1E-12	5.0E-11	2.6E-11	2.3E-11	7.1E-12	1.1E-10
749	UCAR	557510.26	3776528.23	557510.26, 3776528.23	1.25044	1.33575	1.28636	1.91707E-07	7.02135E-09	4.71123E-08	2.5E-07	8.5E-11	2.6E-10	1.5E-10	1.3E-10	6.2E-11	2.8E-12	6.9E-11	3.5E-11	3.2E-11	9.7E-12	1.5E-10
750	UCAR	557530.26	3776528.23	557530.26, 3776528.23	1.20314	1.28393	1.23072	1.84456E-07	6.74896E-09	4.50745E-08	2.4E-07	8.2E-11	2.5E-10	1.4E-10	1.3E-10	5.9E-11	2.7E-12	6.6E-11	3.4E-11	3.1E-11	9.3E-12	1.4E-10
751	UCAR	557550.26	3776528.23	557550.26, 3776528.23	1.15975	1.2368	1.18058	1.77803E-07	6.50122E-09	4.32381E-08	2.3E-07	7.9E-11	2.4E-10	1.4E-10	1.2E-10	5.7E-11	2.6E-12	6.4E-11	3.3E-11	3.0E-11	9.0E-12	1.4E-10
752	UCAR	557570.26	3776528.23	557570.26, 3776528.23	1.11721	1.19121	1.13397	1.71281E-07	6.26158E-09	4.15311E-08	2.2E-07	7.6E-11	2.3E-10	1.3E-10	1.2E-10	5.5E-11	2.5E-12	6.1E-11	3.1E-11	2.9E-11	8.6E-12	1.3E-10
753	UCAR	557590.26	3776528.23	557590.26, 3776528.23	1.08027	1.1515	1.09326	1.65618E-07	6.05285E-09	4.00401E-08	2.1E-07	7.3E-11	2.2E-10	1.3E-10	1.2E-10	5.3E-11	2.4E-12	5.9E-11	3.0E-11	2.8E-11	8.4E-12	1.3E-10
754	UCAR	557610.26	3776528.23	557610.26, 3776528.23	1.04577	1.11454	1.05634	1.60329E-07	5.85857E-09	3.86879E-08	2E-07	7.1E-11	2.1E-10	1.2E-10	1.1E-10	5.1E-11	2.4E-12	5.7E-11	2.9E-11	2.7E-11	8.1E-12	1.2E-10
755	UCAR	557630.26	3776528.23	557630.26, 3776528.23	1.01363	1.08016	1.02279	1.55401E-07	5.67785E-09	3.74592E-08	2E-07	6.9E-11	2.1E-10	1.2E-10	1.1E-10	5.0E-11	2.3E-12	5.5E-11	2.9E-11	2.6E-11	7.8E-12	1.2E-10
756	UCAR	557650.26	3776528.23	557650.26, 3776528.23	0.98344	1.04788	0.99202	1.50773E-07	5.50817E-09	3.63322E-08	1.9E-07	6.7E-11	2.0E-10	1.2E-10	1.1E-10	4.8E-11	2.2E-12	5.4E-11	2.8E-11	2.5E-11	7.6E-12	1.2E-10
757	UCAR	557670.26	3776528.23	557670.26, 3776528.23	0.95042	1.01293	0.96051	1.45711E-07	5.32445E-09	3.51782E-08	1.9E-07	6.4E-11	1.9E-10	1.1E-10	1.0E-10	4.7E-11	2.2E-12	5.2E-11	2.7E-11	2.4E-11	7.4E-12	1.1E-10
758	UCAR	557690.26	3776528.23	557690.26, 3776528.23	0.92015	0.98076	0.93165	1.4107E-07	5.15535E-09	3.41212E-08	1.8E-07	6.2E-11	1.9E-10	1.1E-10	9.9E-11	4.5E-11	2.1E-12	5.0E-11	2.6E-11	2.4E-11	7.1E-12	1.1E-10
759	UCAR	557510.26	3776548.23	557510.26, 3776548.23	1.2537	1.34164	1.2896	1.92207E-07	7.05231E-09	4.72309E-08	2.5E-07	8.5E-11	2.6E-10	1.5E-10	1.4E-10	6.2E-11	2.8E-12	6.9E-11	3.5E-11	3.2E-11	9.7E-12	1.5E-10
760	UCAR	557530.26	3776548.23	557530.26, 3776548.23	1.20851	1.29202	1.23566	1.85279E-07	6.79149E-09	4.52554E-08	2.4E-07	8.2E-11	2.5E-10	1.4E-10	1.3E-10	5.9E-11	2.7E-12	6.6E-11	3.4E-11	3.1E-11	9.4E-12	1.4E-10
761	UCAR	557550.26	3776548.23	557550.26, 3776548.23	1.16024	1.24039	1.1834	1.77878E-07	6.5201E-09	4.33414E-08	2.3E-07	7.9E-11	2.4E-10	1.4E-10	1.2E-10	5.7E-11	2.6E-12	6.4E-11	3.3E-11	3.0E-11	9.0E-12	1.4E-10
762	UCAR	557570.26	3776548.23	557570.26, 3776548.23	1.11682	1.19394	1.13681	1.71222E-07	6.27593E-09	4.16351E-08	2.2E-07	7.6E-11	2.3E-10	1.3E-10	1.2E-10	5.5E-11	2.5E-12	6.1E-11	3.2E-11	2.9E-11	8.7E-12	1.3E-10
763	UCAR	557590.26	3776548.23	557590.26, 3776548.23	1.0805	1.15474	1.09702	1.65653E-07	6.06988E-09	4.01778E-08	2.1E-07	7.3E-11	2.2E-10	1.3E-10	1.2E-10	5.3E-11	2.4E-12	5.9E-11	3.0E-11	2.8E-11	8.4E-12	1.3E-10
764	UCAR	557610.26	3776548.23	557610.26, 3776548.23	1.04502	1.11671	1.05992	1.60214E-07	5.86997E-09	3.8819E-08	2E-07	7.1E-11	2.1E-10	1.2E-10	1.1E-10	5.1E-11	2.4E-12	5.7E-11	2.9E-11	2.7E-11	8.1E-12	1.2E-10
765	UCAR	557630.26	3776548.23	557630.26, 3776548.23	1.01227	1.08158	1.02629	1.55193E-07	5.68531E-09	3.75873E-08	2E-07	6.9E-11	2.1E-10	1.2E-10	1.1E-10	5.0E-11	2.3E-12	5.5E-11	2.9E-11	2.6E-11	7.8E-12	1.2E-10
766	UCAR	557650.26	3776548.23	557650.26, 3776548.23	0.98223	1.04925	0.99579	1.50587E-07	5.51537E-09	3.64703E-08	1.9E-07	6.7E-11	2.0E-10	1.2E-10	1.1E-10	4.8E-11	2.2E-12	5.4E-11	2.8E-11	2.5E-11	7.6E-12	1.2E-10
767	UCAR	557670.26	3776548.23	557670.26, 3776548.23	0.95014	1.01505	0.96495	1.45668E-07	5.3356E-09	3.53408E-08	1.9E-07	6.5E-11	1.9E-10	1.1E-10	1.0E-10	4.7E-11	2.2E-12	5.2E-11	2.7E-11	2.4E-11	7.4E-12	1.1E-10
768	UCAR	557690.26	3776548.23	557690.26, 3776548.23	0.92078	0.98362	0.93669	1.41166E-07	5.17039E-09	3.43058E-08	1.8E-07	6.3E-11	1.9E-10	1.1E-10	9.9E-11	4.5E-11	2.1E-12	5.0E-11	2.6E-11	2.4E-11	7.1E-12	1.1E-10
769	UCAR	557510.26	3776568.23	557510.26, 3776568.23	1.25487	1.34609	1.29203	1.92386E-07	7.07571E-09	4.73199E-08	2.5E-07	8.5E-11	2.6E-10	1.5E-10	1.4E-10	6.2E-11	2.9E-12	6.9E-11	3.5E-11	3.2E-11	9.7E-12	1.5E-10
770	UCAR	557530.26	3776568.23	557530.26, 3776568.23	1.20844	1.29539	1.23806	1.85268E-07	6.8092E-09	4.53433E-08	2.4E-07	8.2E-11	2.5E-10	1.4E-10	1.3E-10	5.9E-11	2.7E-12	6.6E-11	3.4E-11	3.1E-11	9.4E-12	1.4E-10
771	UCAR	557550.26	3776568.23	557550.26, 3776568.23	1.16104	1.2446	1.18691	1.78001E-07	6.54222E-09	4.347E-08	2.3E-07	7.9E-11	2.4E-10	1.4E-10	1.3E-10	5.7E-11	2.6E-12	6.4E-11	3.3E-11	3.0E-11	9.0E-12	1.4E-10
772	UCAR	557570.26	3776568.23	557570.26, 3776568.23	1.11539	1.19598	1.13958	1.71002E-07	6.28665E-09	4.17365E-08	2.2E-07	7.6E-11	2.3E-10	1.3E-10	1.2E-10	5.5E-11	2.5E-12	6.1E-11	3.1E-11	2.9E-11	8.6E-12	1.3E-10
773	UCAR	557590.26	3776568.23	557590.26, 3776568.23	1.07735	1.15499	1.09923	1.6517E-07	6.07119E-09	4.02587E-08	2.1E-07	7.3E-11	2.2E-10	1.3E-10	1.2E-10	5.3E-11	2.4E-12	5.9E-11	3.0E-11	2.8E-11	8.3E-12	1.3E-10
774	UCAR	557610.26	3776568.23	557610.26, 3776568.23	1.04111	1.11605	1.06199	1.59614E-07	5.8665E-09	3.88948E-08	2E-07	7.1E-11	2.1E-10	1.2E-10	1.1E-10	5.1E-11	2.4E-12	5.7E-11	2.9E-11	2.7E-11	8.1E-12	1.2E-10
775	UCAR	557630.26	3776568.23	557630.26, 3776568.23	1.00782	1.08018	1.0282	1.54511E-07	5.67795E-09	3.76573E-08	2E-07	6.8E-11	2.1E-10	1.2E-10	1.1E-10	5.0E-11	2.3E-12	5.5E-11	2.8E-11	2.6E-11	7.8E-12	1.2E-10
776	UCAR	557650.26	3776568.23	557650.26, 3776568.23	0.97873	1.04856	0.99841	1.50051E-07	5.51174E-09	3.65663E-08	1.9E-07	6.7E-11	2.0E-10	1.2E-10	1.1E-10	4.8E-11	2.2E-12	5.4E-11	2.8E-11	2.5E-11	7.6E-12	1.2E-10
777	UCAR	557670.26	3776568.23	557670.26, 3776568.23	0.94659	1.01411	0.9675	1.45123E-07	5.33066E-09	3.54342E-08	1.9E-07	6.4E-11	1.9E-10	1.1E-10	1.0E-10	4.7E-11	2.1E-12	5.2E-11	2.7E-11	2.4E-11	7.3E-12	1.1E-10
778	UCAR	557690.26	3776568.23	557690.26, 3776568.23	0.91574	0.98102	0.93809	1.40394E-07	5.15672E-09	3.43571E-08	1.8E-07	6.2E-11	1.9E-10	1.1E-10	9.9E-11	4.5E-11	2.1E-12	5.0E-11	2.6E-11	2.3E-11	7.1E-12	1.1E-10
779	UCAR	557510.26	3776588.23	557510.26, 3776588.23	1.25241	1.34758	1.29293	1.92009E-07	7.08354E-09	4.73529E-08	2.5E-07	8.5E-11	2.6E-10	1.5E-10	1.4E-10	6.2E-11	2.8E-12	6.9E-11	3.5E-11	3.2E-11	9.7E-12	1.5E-10
780	UCAR	557530.26	3776588.23	557530.26, 3776588.23	1.20694	1.29776	1.24024	1.85038E-07	6.82166E-09	4.54232E-08	2.4E-07	8.2E-11	2.5E-10	1.4E-10	1.3E-10	5.9E-11	2.7E-12	6.6E-11	3.4E-11	3.1E-11	9.4E-12	1.4E-10
781	UCAR	557550.26	3776588.23	557550.26, 3776588.23	1.15899	1.24625	1.18935	1.77687E-07	6.5509E-09	4.35593E-08	2.3E-07	7.9E-11	2.4E-10	1.4E-10	1.2E-10	5.7E-11	2.6E-12	6.4E-11	3.3E-11	3.0E-11	9.0E-12	1.4E-10
782	UCAR	557570.26	3776588.23	557570.26, 3776588.23	1.11091	1.19496	1.14096	1.70316E-07	6.28129E-09	4.17871E-08	2.2E-07	7.6E-11	2.3E-10	1.3E-10	1.2E-10	5.5E-11	2.5E-12	6.1E-11	3.1E-11	2.8E-11	8.6E-12	1.3E-10
783	UCAR	557590.26	3776588.23	557590.26, 3776588.23	1.06935	1.15025	1.09875	1.63944E-07	6.04628E-09	4.02412E-08	2.1E-07	7.3E-11	2.2E-10	1.3E-10	1.2E-10	5.3E-11	2.4E-12	5.9E-11	3.0E-11	2.7E-11	8.3E-12	1.3E-10
784	UCAR	557610.26	3776588.23	557610.26, 3776588.23	1.03279	1.11072	1.0615	1.58339E-07	5.83849E-09	3.88769E-08	2E-07	7.0E-11	2.1E-10	1.2E-10	1.1E-10	5.1E-11	2.3E-12	5.7E-11	2.9E-11	2.6E-11	8.0E-12	1.2E-10
785	UCAR	557630.26	3776588.23	557630.26, 3776588.23	1.00232	1.07748	1.02968	1.53667E-07	5.66376E-09	3.77115E-08	2E-07	6.8E-11	2.1E-10	1.2E-10	1.1E-10	4.9E-11	2.3E-12	5.5E-11	2.8E-11	2.6E-11	7.8E-12	1.2E-10
786	UCAR	557650.26	3776588.23	557650.26, 3776588.23	0.97222	1.04473	0.99923	1.49053E-07	5.49161E-09	3.65963E-08	1.9E-07	6.6E-11	2.0E-10	1.2E-10	1.0E-10	4.8E-11	2.2E-12	5.3E-11	2.7E-11	2.5E-11	7.5E-12	1.2E-10
787	UCAR	557670.26	3776588.23	557670.26, 3776588.23	0.94195	1.0119	0.96947	1.44412E-07	5.31904E-09	3.55063E-08	1.9E-07	6.4E-11	1.9E-10	1.1E-10	1.0E-10	4.6E-11	2.1E-12	5.2E-11	2.7E-11	2.4E-11	7.3E-12	1.1E-10
788	UCAR	557690.26	3776588.23	557690.26, 3776588.23	0.91289	0.98038	0.94111	1.39957E-07	5.15336E-09	3.44677E-08	1.8E-07	6.2E-11	1.9E-10	1.1E-10	9.8E-11	4.5E-11	2.1E-12	5.0E-11	2.6E-11	2.3E-11	7.1E-12	1.1E-10
789	UCAR	557510.26	3776608.23	557510.26, 3776608.23	1.24648	1.34548	1.29226	1.911E-07	7.0725E-09	4.73284E-08	2.5E-07	8.5E-11	2.6E-10	1.5E-10	1.3E-10	6.1E-11	2.8E-12	6.9E-11	3.5E-11	3.2E-11	9.7E-12	1.5E-10
790	UCAR	557530.26	3776608.23	557530.26, 3776608.23	1.20113	1.29565	1.24036	1.84147E-07	6.81057E-09	4.54275E-08	2.4E-07	8.2E-11	2.5E-10	1.4E-10	1.3E-10	5.9E-11	2.7E-12	6.6E-11	3.4E-11	3.1E-11	9.3E-12	1.4E-10
791	UCAR	557550.26	3776608.23	557550.26, 3776608.23	1.15187	1.24237	1.18923	1.76595E-07	6.5305E-09	4.35549E-08	2.3E-07	7.8E-11	2.4E-10	1.4E-10	1.2E-10	5.7E-11	2.6E-12	6.3E-11	3.3E-11	3.0E-11	8.9E-12	1.4E-10
792	UCAR	557570.26	3776608.23	557570.26, 3776608.23	1.10506	1.19171	1.14207	1.69419E-07	6.26421E-09	4.18277E-08	2.2E-07	7.5E-11	2.3E-10	1.3E-10	1.2E-10	5.4E-11	2.5E-12	6.1E-11	3.1E-11	2.8E-11	8.6E-12	1.3E-10
793	UCAR	557590.26	3776608.23	557590.26, 3776608.23	1.06082	1.14371	1.09848	1.62636E-07	6.0119E-09	4.02313E-08	2.1E-07	7.2E-11	2.2E-10	1.3E-10	1.1E-10	5.2E-11	2.4E-12	5.8E-11	3.0E-11	2.7E-11	8.2E-12	1.3E-10
794	UCAR	557610.26	3776608.23	557610.26, 3776608.23	1.02405	1.1037	1.06123	1.56999E-07	5.80159E-09	3.8867E-08	2E-07	7.0E-11	2.1E-10	1.2E-10	1.1E-10	5.0E-11	2.3E-12	5.6E-11	2.9E-11	2.6E-11	8.0E-12	1.2E-10
795	UCAR	557630.26	3776608.23	557630.26, 3776608.23	0.99351	1.07042	1.02934	1.52317E-07	5.62665E-09	3.7699E-08	2E-07	6.8E-11	2.0E-10	1.2E-10	1.1E-10	4.9E-11	2.3E-12	5.5E-11	2.8E-11	2.5E-11	7.7E-12	1.2E-10
796	UCAR	557650.26	3776608.23	557650.26, 3776608.23	0.96265	1.03684	0.99825	1.47586E-07	5.45014E-09	3.65604E-08	1.9E-07	6.6E-11	2.0E-10	1.1E-10	1.0E-10	4.7E-11	2.2E-12	5.3E-11	2.7E-11	2.5E-11	7.5E-12	1.1E-10
797	UCAR	557670.26	3776608.23	557670.26, 3776608.23	0.93157	1.00303	0.9677	1.42821E-07	5.27242E-09	3.54415E-08	1.8E-07	6.4E-11	1.9E-10	1.1E-10	1.0E-10	4.6E-11	2.1E-12	5.1E-11	2.6E-11	2.4E-11	7.2E-12	1.1E-10
798	UCAR	557690.26	3776608.23	557690.26, 3776608.23	0.90149	0.9703	0.93835	1.38209E-07	5.10037E-09	3.43666E-08	1.8E-07	6.2E-11	1.9E-10	1.1E-10	9.7E-11	4.4E-11	2.1E-12	5.0E-11	2.6E-11	2.3E-11	7.0E-12	1.1E-10
799	UCAR	557510.26	3776628.23	557510.26, 3776628.23	1.23869	1.34014	1.29131	1.89906E-07	7.04443E-09	4.72936E-08	2.4E-07	8.5E-11	2.6E-10	1.5E-10	1.3E-10	6.1E-11	2.8E-12	6

Operational Delivery Truck Risk

	OnSite Travel	OnSite Idle	Off-Site Travel
Emissions Rate (g/s):	1.53312E-07	5.25649E-09	3.66E-08

Discrete Receptor ID			Concentration [µg/m^3] at 1 g/s			Unmitigated				Residential Dose					Risk by Age Group					
X	Y	X, Y	OnSite Travel	OnSite Idle	Off-Site Travel	OnSite Travel	OnSite Idle	Off-Site Travel	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
841 UCAR	556212.49	3776517.81	556212.49, 3776517.81	0.431	0.38927	0.39063	6.60774E-08	2.04619E-09	1.43066E-08	8.2E-08	2.9E-11	8.6E-11	5.0E-11	4.5E-11	2.1E-11	9.5E-13	2.3E-11	1.2E-11	1.1E-11	3.3E-12	5.0E-11
842 UCAR	556232.49	3776517.81	556232.49, 3776517.81	0.43937	0.3965	0.39788	6.73606E-08	2.0842E-09	1.45722E-08	8.4E-08	2.9E-11	8.8E-11	5.1E-11	4.6E-11	2.1E-11	9.7E-13	2.3E-11	1.2E-11	1.1E-11	3.3E-12	5.1E-11
843 UCAR	556252.49	3776517.81	556252.49, 3776517.81	0.44847	0.40445	0.40557	6.87557E-08	2.12599E-09	1.48538E-08	8.6E-08	3.0E-11	9.0E-11	5.2E-11	4.7E-11	2.1E-11	9.9E-13	2.4E-11	1.2E-11	1.1E-11	3.4E-12	5.2E-11
844 UCAR	556272.49	3776517.81	556272.49, 3776517.81	0.46237	0.41671	0.41718	7.08868E-08	2.19043E-09	1.5279E-08	8.8E-08	3.1E-11	9.2E-11	5.3E-11	4.8E-11	2.2E-11	1.0E-12	2.5E-11	1.3E-11	1.2E-11	3.5E-12	5.3E-11
845 UCAR	556292.49	3776517.81	556292.49, 3776517.81	0.47566	0.42851	0.42807	7.29243E-08	2.25246E-09	1.56778E-08	9.1E-08	3.1E-11	9.5E-11	5.5E-11	5.0E-11	2.3E-11	1.1E-12	2.5E-11	1.3E-11	1.2E-11	3.6E-12	5.5E-11
846 UCAR	556312.49	3776517.81	556312.49, 3776517.81	0.48766	0.43926	0.43766	7.4764E-08	2.30896E-09	1.60291E-08	9.3E-08	3.2E-11	9.7E-11	5.6E-11	5.1E-11	2.3E-11	1.1E-12	2.6E-11	1.3E-11	1.2E-11	3.7E-12	5.6E-11
847 UCAR	556332.49	3776517.81	556332.49, 3776517.81	0.50337	0.45339	0.45025	7.71725E-08	2.38324E-09	1.64902E-08	9.6E-08	3.3E-11	1.0E-10	5.8E-11	5.3E-11	2.4E-11	1.1E-12	2.7E-11	1.4E-11	1.3E-11	3.8E-12	5.8E-11
848 UCAR	556352.49	3776517.81	556352.49, 3776517.81	0.51461	0.46369	0.45892	7.88958E-08	2.43738E-09	1.68077E-08	9.8E-08	3.4E-11	1.0E-10	5.9E-11	5.4E-11	2.5E-11	1.1E-12	2.7E-11	1.4E-11	1.3E-11	3.9E-12	5.9E-11
849 UCAR	556372.49	3776517.81	556372.49, 3776517.81	0.52004	0.46892	0.46259	7.97282E-08	2.46487E-09	1.69421E-08	9.9E-08	3.4E-11	1.0E-10	6.0E-11	5.4E-11	2.5E-11	1.1E-12	2.8E-11	1.4E-11	1.3E-11	3.9E-12	6.0E-11
850 UCAR	556392.49	3776517.81	556392.49, 3776517.81	0.53686	0.48438	0.47602	8.2307E-08	2.54614E-09	1.7434E-08	1E-07	3.5E-11	1.1E-10	6.2E-11	5.6E-11	2.6E-11	1.2E-12	2.9E-11	1.5E-11	1.3E-11	4.0E-12	6.2E-11
851 UCAR	556412.49	3776517.81	556412.49, 3776517.81	0.54886	0.49562	0.48548	8.41467E-08	2.60522E-09	1.77805E-08	1E-07	3.6E-11	1.1E-10	6.3E-11	5.7E-11	2.6E-11	1.2E-12	2.9E-11	1.5E-11	1.4E-11	4.1E-12	6.3E-11
852 UCAR	556432.49	3776517.81	556432.49, 3776517.81	0.55921	0.50537	0.49376	8.57335E-08	2.65647E-09	1.80837E-08	1.1E-07	3.7E-11	1.1E-10	6.4E-11	5.8E-11	2.7E-11	1.2E-12	3.0E-11	1.5E-11	1.4E-11	4.2E-12	6.4E-11
853 UCAR	556452.49	3776517.81	556452.49, 3776517.81	0.56828	0.51391	0.50125	8.7124E-08	2.70136E-09	1.8358E-08	1.1E-07	3.7E-11	1.1E-10	6.5E-11	5.9E-11	2.7E-11	1.3E-12	3.0E-11	1.6E-11	1.4E-11	4.3E-12	6.5E-11
854 UCAR	556472.49	3776517.81	556472.49, 3776517.81	0.58689	0.53076	0.51708	8.99771E-08	2.78993E-09	1.89378E-08	1.1E-07	3.9E-11	1.2E-10	6.8E-11	6.1E-11	2.8E-11	1.3E-12	3.1E-11	1.6E-11	1.5E-11	4.4E-12	6.8E-11
855 UCAR	556492.49	3776517.81	556492.49, 3776517.81	0.60393	0.54592	0.53186	9.25896E-08	2.86962E-09	1.94791E-08	1.1E-07	4.0E-11	1.2E-10	7.0E-11	6.3E-11	2.9E-11	1.3E-12	3.2E-11	1.7E-11	1.5E-11	4.5E-12	6.9E-11
856 UCAR	556172.49	3776537.81	556172.49, 3776537.81	0.43015	0.38872	0.38945	6.59471E-08	2.0433E-09	1.42634E-08	8.2E-08	2.8E-11	8.6E-11	5.0E-11	4.5E-11	2.1E-11	9.5E-13	2.3E-11	1.2E-11	1.1E-11	3.2E-12	5.0E-11
857 UCAR	556192.49	3776537.81	556192.49, 3776537.81	0.43922	0.39629	0.39771	6.73376E-08	2.08309E-09	1.45659E-08	8.4E-08	2.9E-11	8.8E-11	5.1E-11	4.6E-11	2.1E-11	9.7E-13	2.3E-11	1.2E-11	1.1E-11	3.3E-12	5.1E-11
858 UCAR	556212.49	3776537.81	556212.49, 3776537.81	0.44917	0.40472	0.4066	6.8863E-08	2.12741E-09	1.48915E-08	8.6E-08	3.0E-11	9.0E-11	5.2E-11	4.7E-11	2.1E-11	9.9E-13	2.4E-11	1.2E-11	1.1E-11	3.4E-12	5.2E-11
859 UCAR	556232.49	3776537.81	556232.49, 3776537.81	0.45731	0.41162	0.41378	7.0111E-08	2.16368E-09	1.51545E-08	8.7E-08	3.0E-11	9.1E-11	5.3E-11	4.8E-11	2.2E-11	1.0E-12	2.4E-11	1.3E-11	1.1E-11	3.5E-12	5.3E-11
860 UCAR	556252.49	3776537.81	556252.49, 3776537.81	0.46639	0.41943	0.42159	7.15031E-08	2.20473E-09	1.54405E-08	8.9E-08	3.1E-11	9.3E-11	5.4E-11	4.9E-11	2.2E-11	1.0E-12	2.5E-11	1.3E-11	1.2E-11	3.5E-12	5.4E-11
861 UCAR	556272.49	3776537.81	556272.49, 3776537.81	0.47515	0.42705	0.42891	7.28461E-08	2.24478E-09	1.57086E-08	9.1E-08	3.1E-11	9.5E-11	5.5E-11	5.0E-11	2.3E-11	1.0E-12	2.5E-11	1.3E-11	1.2E-11	3.6E-12	5.5E-11
862 UCAR	556292.49	3776537.81	556292.49, 3776537.81	0.49303	0.44279	0.4438	7.55873E-08	2.32752E-09	1.62539E-08	9.4E-08	3.3E-11	9.8E-11	5.7E-11	5.2E-11	2.4E-11	1.1E-12	2.6E-11	1.4E-11	1.2E-11	3.7E-12	5.7E-11
863 UCAR	556312.49	3776537.81	556312.49, 3776537.81	0.50748	0.45559	0.45552	7.78027E-08	2.3948E-09	1.66832E-08	9.7E-08	3.4E-11	1.0E-10	5.9E-11	5.3E-11	2.4E-11	1.1E-12	2.7E-11	1.4E-11	1.3E-11	3.8E-12	5.9E-11
864 UCAR	556332.49	3776537.81	556332.49, 3776537.81	0.52449	0.47076	0.46922	8.04105E-08	2.47454E-09	1.71849E-08	1E-07	3.5E-11	1.0E-10	6.1E-11	5.5E-11	2.5E-11	1.2E-12	2.8E-11	1.4E-11	1.3E-11	4.0E-12	6.0E-11
865 UCAR	556352.49	3776537.81	556352.49, 3776537.81	0.53774	0.48275	0.47956	8.24419E-08	2.53757E-09	1.75636E-08	1E-07	3.5E-11	1.1E-10	6.2E-11	5.6E-11	2.6E-11	1.2E-12	2.9E-11	1.5E-11	1.3E-11	4.0E-12	6.2E-11
866 UCAR	556372.49	3776537.81	556372.49, 3776537.81	0.54629	0.49072	0.48582	8.37527E-08	2.57946E-09	1.77929E-08	1E-07	3.6E-11	1.1E-10	6.3E-11	5.7E-11	2.6E-11	1.2E-12	2.9E-11	1.5E-11	1.4E-11	4.1E-12	6.3E-11
867 UCAR	556392.49	3776537.81	556392.49, 3776537.81	0.55392	0.49796	0.49129	8.49224E-08	2.61752E-09	1.79932E-08	1.1E-07	3.7E-11	1.1E-10	6.4E-11	5.8E-11	2.6E-11	1.2E-12	2.9E-11	1.5E-11	1.4E-11	4.2E-12	6.4E-11
868 UCAR	556412.49	3776537.81	556412.49, 3776537.81	0.57129	0.51392	0.50514	8.75855E-08	2.70141E-09	1.85005E-08	1.1E-07	3.8E-11	1.1E-10	6.6E-11	6.0E-11	2.7E-11	1.3E-12	3.0E-11	1.6E-11	1.4E-11	4.3E-12	6.6E-11
869 UCAR	556432.49	3776537.81	556432.49, 3776537.81	0.58563	0.52722	0.5166	8.9784E-08	2.77133E-09	1.89202E-08	1.1E-07	3.9E-11	1.2E-10	6.7E-11	6.1E-11	2.8E-11	1.3E-12	3.1E-11	1.6E-11	1.5E-11	4.4E-12	6.7E-11
870 UCAR	556452.49	3776537.81	556452.49, 3776537.81	0.59479	0.5359	0.52398	9.11883E-08	2.81695E-09	1.91905E-08	1.1E-07	3.9E-11	1.2E-10	6.8E-11	6.2E-11	2.8E-11	1.3E-12	3.2E-11	1.6E-11	1.5E-11	4.5E-12	6.8E-11
871 UCAR	556472.49	3776537.81	556472.49, 3776537.81	0.61515	0.55434	0.54111	9.43097E-08	2.91388E-09	1.98179E-08	1.2E-07	4.1E-11	1.2E-10	7.1E-11	6.4E-11	2.9E-11	1.4E-12	3.3E-11	1.7E-11	1.5E-11	4.6E-12	7.1E-11
872 UCAR	556492.49	3776537.81	556492.49, 3776537.81	0.63495	0.57203	0.55807	9.73453E-08	3.00687E-09	2.0439E-08	1.2E-07	4.2E-11	1.3E-10	7.3E-11	6.6E-11	3.0E-11	1.4E-12	3.4E-11	1.7E-11	1.6E-11	4.8E-12	7.3E-11
873 UCAR	556332.49	3776557.81	556332.49, 3776557.81	0.54966	0.49151	0.4917	8.42693E-08	2.58362E-09	1.80083E-08	1E-07	3.6E-11	1.1E-10	6.3E-11	5.8E-11	2.6E-11	1.2E-12	2.9E-11	1.5E-11	1.4E-11	4.1E-12	6.3E-11
874 UCAR	556352.49	3776557.81	556352.49, 3776557.81	0.55868	0.49969	0.49844	8.56522E-08	2.62661E-09	1.82551E-08	1.1E-07	3.7E-11	1.1E-10	6.4E-11	5.8E-11	2.7E-11	1.2E-12	3.0E-11	1.5E-11	1.4E-11	4.2E-12	6.4E-11
875 UCAR	556372.49	3776557.81	556372.49, 3776557.81	0.5746	0.51405	0.51089	8.80929E-08	2.7021E-09	1.87111E-08	1.1E-07	3.8E-11	1.1E-10	6.6E-11	6.0E-11	2.7E-11	1.3E-12	3.1E-11	1.6E-11	1.4E-11	4.3E-12	6.6E-11
876 UCAR	556392.49	3776557.81	556392.49, 3776557.81	0.58494	0.52365	0.51854	8.96782E-08	2.75256E-09	1.89913E-08	1.1E-07	3.9E-11	1.2E-10	6.7E-11	6.1E-11	2.8E-11	1.3E-12	3.1E-11	1.6E-11	1.5E-11	4.4E-12	6.7E-11
877 UCAR	556412.49	3776557.81	556412.49, 3776557.81	0.60309	0.54023	0.53286	9.24608E-08	2.83971E-09	1.95157E-08	1.1E-07	4.0E-11	1.2E-10	6.9E-11	6.3E-11	2.9E-11	1.3E-12	3.2E-11	1.7E-11	1.5E-11	4.5E-12	6.9E-11
878 UCAR	556432.49	3776557.81	556432.49, 3776557.81	0.61578	0.55207	0.54272	9.44063E-08	2.90195E-09	1.98768E-08	1.2E-07	4.1E-11	1.2E-10	7.1E-11	6.4E-11	2.9E-11	1.4E-12	3.3E-11	1.7E-11	1.5E-11	4.6E-12	7.1E-11
879 UCAR	556452.49	3776557.81	556452.49, 3776557.81	0.62561	0.56137	0.55044	9.59134E-08	2.95083E-09	2.01596E-08	1.2E-07	4.1E-11	1.2E-10	7.2E-11	6.5E-11	3.0E-11	1.4E-12	3.3E-11	1.7E-11	1.6E-11	4.7E-12	7.2E-11
880 UCAR	556472.49	3776557.81	556472.49, 3776557.81	0.64439	0.57846	0.56604	9.87926E-08	3.04067E-09	2.07309E-08	1.2E-07	4.2E-11	1.3E-10	7.4E-11	6.7E-11	3.1E-11	1.4E-12	3.4E-11	1.8E-11	1.6E-11	4.8E-12	7.4E-11
881 UCAR	556492.49	3776557.81	556492.49, 3776557.81	0.66767	0.59928	0.58574	1.02362E-07	3.15011E-09	2.14524E-08	1.3E-07	4.4E-11	1.3E-10	7.7E-11	7.0E-11	3.2E-11	1.5E-12	3.5E-11	1.8E-11	1.7E-11	5.0E-12	7.7E-11
882 UCAR	556332.49	3776577.81	556332.49, 3776577.81	0.57029	0.50811	0.51039	8.74322E-08	2.67087E-09	1.86928E-08	1.1E-07	3.8E-11	1.1E-10	6.6E-11	6.0E-11	2.7E-11	1.3E-12	3.0E-11	1.6E-11	1.4E-11	4.3E-12	6.6E-11
883 UCAR	556352.49	3776577.81	556352.49, 3776577.81	0.58803	0.52378	0.52455	9.01519E-08	2.75324E-09	1.92114E-08	1.1E-07	3.9E-11	1.2E-10	6.8E-11	6.1E-11	2.8E-11	1.3E-12	3.1E-11	1.6E-11	1.5E-11	4.4E-12	6.8E-11
884 UCAR	556372.49	3776577.81	556372.49, 3776577.81	0.60335	0.53751	0.53645	9.25007E-08	2.82541E-09	1.96472E-08	1.1E-07	4.0E-11	1.2E-10	7.0E-11	6.3E-11	2.9E-11	1.3E-12	3.2E-11	1.7E-11	1.5E-11	4.5E-12	6.9E-11
885 UCAR	556392.49	3776577.81	556392.49, 3776577.81	0.62012	0.55265	0.54944	9.50717E-08	2.905E-09	2.0123E-08	1.2E-07	4.1E-11	1.2E-10	7.1E-11	6.5E-11	3.0E-11	1.4E-12	3.3E-11	1.7E-11	1.5E-11	4.7E-12	7.1E-11
886 UCAR	556412.49	3776577.81	556412.49, 3776577.81	0.6374	0.56839	0.56284	9.77209E-08	2.98774E-09	2.06137E-08	1.2E-07	4.2E-11	1.3E-10	7.3E-11	6.7E-11	3.0E-11	1.4E-12	3.4E-11	1.7E-11	1.6E-11	4.8E-12	7.3E-11
887 UCAR	556432.49	3776577.81	556432.49, 3776577.81	0.64831	0.57866	0.57099	9.93935E-08	3.04172E-09	2.09122E-08	1.2E-07	4.3E-11	1.3E-10	7.5E-11	6.8E-11	3.1E-11	1.4E-12	3.4E-11	1.8E-11	1.6E-11	4.9E-12	7.5E-11
888 UCAR	556452.49	3776577.81	556452.49, 3776577.81	0.66261	0.59192	0.58223	1.01586E-07	3.11142E-09	2.13239E-08	1.3E-07	4.4E-11	1.3E-10	7.6E-11	6.9E-11	3.2E-11	1.5E-12	3.5E-11	1.8E-11	1.6E-11	5.0E-12	7.6E-11
889 UCAR	556472.49	3776577.81	556472.49, 3776577.81	0.68209	0.60965	0.59817	1.04572E-07	3.20462E-09	2.19077E-08	1.3E-07	4.5E-11	1.4E-10	7.8E-11	7.1E-11	3.2E-11	1.5E-12	3.6E-11	1.9E-11	1.7E-11	5.1E-12	7.8E-11
890 UCAR	556492.49	3776577.81	556492.49, 3776577.81	0.70322	0.62863	0.61586	1.07812E-07	3.30439E-09	2.25556E-08	1.3E-07	4.6E-11	1.4E-10	8.1E-11	7.3E-11	3.3E-11	1.5E-12	3.7E-11	1.9E-11	1.7E-11	5.3E-12	8.1E-11
891 UCAR	556332.49	3776597.81	556332.49, 3776597.81	0.60046	0.53282	0.53719	9.20576E-08	2.80076E-09	1.96743E-08	1.1E-07	4.0E-11	1.2E-10	6.9E-11	6.3E-11	2.9E-11	1.3E-12	3.2E-11	1.6E-11	1.5E-11	4.5E-12	6.9E-11
892 UCAR	556352.49	3776597.81	556352.49, 3776597.81	0.61717	0.54743	0.55055	9.46194E-08	2.87756E-09	2.01636E-08	1.2E-07	4.1E-11	1.2E-10	7.1E-11	6.5E-11	2.9E-11	1.4E-12	3.3E-11	1.7E-11	1.5E-11	4.6E-12	7.1E-11
893 UCAR	556372.49	3776597.81	556372.49, 3776597.81	0.63321	0.56165	0.56307	9.70785E-08	2.95231E-09	2.06221E-08	1.2E-07	4.2E-11	1.3E-10	7.3E-11	6.6E-11	3.0E-11	1.4E-12	3.4E-11	1.7E-11	1.6E-11	4.8E-12	7.3E-11
894 UCAR	556392.49	3776597.81	556392.49, 3776597.81	0.64526	0.57258	0.57202	9.89259E-08	3.00976E-09	2.09499E-08	1.2E-07	4.3E-11	1.3E-10	7.4E-11	6.7E-11	3.1E-11	1.4E-12	3.4E-11	1.8E-11	1.6E-11	4.9E-12	7.4E-11
895 UCAR	556412.49	3776597.81	556412.49, 3776597.81	0.66952	0.59427	0.59114	1.02645E-07	3.12377E-09	2.16502E-08	1.3E-07	4.4E-11	1.3E-10	7.7E-11	7.0E-11	3.2E-11	1.5E-12	3.6E-11	1.8E-11	1.7E-11	5.0E-12	7.7E-11
896 UCAR	556432.49	3776597.81	556432.49, 3776597.81	0.68286	0.60662	0.60113	1.0469E-07	3.18869E-09	2.20161E-08	1.3E-07	4.5E-11	1.4E-10	7.9E-11	7.1E-11	3.3E-11	1.5E-12	3.6E-11	1.9E-11	1.7E-11	5.1E-12	7.9E-11
897 UCAR	556452.49	3776597.81	556452.49, 3776597.81	0.69335	0.61656	0.60894	1.06299E-07	3.24094E-09	2.23021E-08	1.3E-07	4.6E-11	1.4E-10	8.0E-11	7.2E-11	3.3E-11	1.5E-12	3.7E-11	1.9E-11	1.7E-11	5.2E-12	8.0E-11
898 UCAR	556472.49	3776597.81	556472.49, 3776597.81	0.71244	0.63396	0.62429	1.09225E-07	3.3324E-09	2.28643E-08	1.4E-07	4.7E-11	1.4E-10	8.2E-11	7.4E-11	3.4E-11	1.6E-12	3.8E-11	1.9E-11	1.8E-11	5.3E-12	8.2E-11
899 UCAR	556492.49	3776597.81	556492.49, 3776597.81	0.74125	0.65969	0.64815	1.13642E-07	3.46765E-09	2.37382E-08	1.4E-07	4.9E-11	1.5E-10	8.5E-11	7.7E-11	3.5E-11	1.6E-12	3.9E-11	2.0E-11	1.8E-11	5.6E-12	8.5E-11
900 UCAR	556252.49	3776617.81	556252.49, 3776617.81	0.56722	0.50441	0.50962	8.69615E-08	2.65143E-09	1.86646E-08	1.1E-07	3.7E-11	1.1E-10	6.6E-11	5.9E-11	2.7E-11	1.3E-12	3.0E-11	1.6E-11	1.4E-11	4.3E-12	6.5E-11
901 UCAR	556272.49	3776617.81	556272.49, 3776617.81	0.57817	0.51318	0.51951	8.86403E-08	2.69752E-09	1.90268E-08	1.1E-07	3.8E-11	1.2E-10	6.7E-11	6.1E-11	2.8E-11	1.3E-12	3.1E-11	1.6E-11	1.4E-11	4.4E-12	6.7E-11
902 UCAR	556292.49	3776617.81	556292.49, 3776617.81	0.5929	0.52536	0.53233	9.08985E-08	2.76155E-09	1.94963E-08	1.1E-07	3.9E-11	1.2E-10	6.8E-11	6.2E-11	2.8E-11	1.3E-12	3.2E-11	1.6E-11	1.5E-11	4.5E-12	6.8E-11
903 UCAR	556312.49	3776617.81	556312.49, 3776617.81	0.61156	0.54108	0.54816	9.37593E-08	2.84418E-09	2.00761E-08	1.2E-07	4.0E-11	1.2E-10	7.1E-11	6.4E-11	2.9E-11	1.3E-12	3.3E-11	1.7E-11	1.5E-11	4.6E-12	7.1E-11
904 UCAR	556332.49	3776617.81	556332.49, 3776617.81	0.62239	0.55024	0.55707	9.54197E-08	2.89233E-09	2.04024E-08	1.2E-07	4.1E-11	1.2E-10	7.2E-11	6.5E-11	3.0E-11	1.4E-12	3.3E-11	1.7E-11	1.5E-11	4.7E-12	7.2E-11
905 UCAR	556352.49	3776617.81	556352.49, 3776617.81	0.64829	0.57255	0.57827	9.93905E-08	3.0096E-09	2.11788E-08	1.2E-07	4.3E-11	1.3E-10	7.5E-11	6.8E-11	3.1E-11	1.4E-12	3.5E-11	1.8E-11	1.6E-11	4.9E-12	7.5E-11
906 UCAR	556372.49	3776617.81	556372.49, 3776617.81	0.67062	0.59198	0.59612	1.02814E-07	3.11174E-09	2.18326E-08	1.3E-07	4.4E-11	1.3E-10	7.7E-11	7.0E-11	3.2E-11	1.5E-12	3.6E-11	1.8E-11	1.7E-11	5.0E-12	7.7E-11
907 UCAR	556392.49	3776617.81	556392.49, 3776617.81	0.68578	0.60548	0.60768	1.05138E-07	3.1827E-09	2.22566E-08	1.3E-07	4.5E-11	1.4E-10	7.9E-11	7.2E-11	3.3E-11	1.5E-12	3.6E-11	1.9E-11	1.7E-11	5.2E-12	7.9E-11
908 UCAR	556412.49	3776617.81	556412.49, 3776617.81	0.70822	0.62544	0.62515	1.08578E-07	3.28762E-09	2.28958E-08	1.3E-07	4.7E-11	1.4E-10	8.2E-11	7.4E-11	3.4E-11	1.6E-12	3.8E-11	1.9E-11	1.8E-11	5.3E-12	8.1E-11
909 UCAR	556432.49	3776617.81	556432.49, 3776617.81	0.72093	0.63721	0.63444	1.10527E-07	3.34949E-09	2.3236E-08	1.4E-07	4.7E-11	1.4E-10	8.3E-11	7.5E-11	3.4E-11	1.6E-12	3.8E-11	2.0E-11	1.8E-11	5.4E-12	8.3E-11
910 UCAR	556452.49	3776617.81	556452.49, 3776617.81	0.74094	0.65538	0.64996	1.13595E-07	3.445E-09	2.38045E-08	1.4E-07	4.9E-11	1.5E-10	8.5E-11	7.7E-11	3.5E-11	1.6E-12	3.9E-11	2.0E-11	1.8E-11	5.6E-12	8.5E-11
911 UCAR	556472.49	3776617.81	556472.49, 3776617.81	0.75025	0.66433	0.65685	1.15022E-07	3.49204E-09	2.40568E-08	1.4E-07	4.9E-11	1.5E-10	8.6E-11	7.8E-11	3.6E-11	1.6E-12	4.0E-11	2.0E-11	1.9E-11	5.6E-12	8.6E-11
912 UCAR	556492.49	3776617.81	556492.49, 3776617.81	0.78176	0.69239	0.68265	1.19853E-07	3.63954E-09	2.50017E-08	1.5E-07	5.1E-11	1.6E-10	9.0E-11	8.1E-11	3.7E-11	1.7E-12	4.1E-11	2.1E-11	1.9E-11	5.9E-12	9.0E-11
913 UCAR	556252.49	3776637.81	556252.49, 3776637.81	0.59445	0.52749	0.53308	9.11362E-08	2.77274E-09	1.95238E-08	1.1E-07	3.9E-11	1.2E-10	6.9E-11	6.2E-11	2.8E-11	1.3E-12	3.2E-11	1.6E-11	1.5E-11	4.5E-12	6.9E-11
914 UCAR	556272.49	3776637.81	556272.49, 3776637.81	0.61654	0.54561	0.55251	9.45228E-08	2.86799E-09	2.02354E-08	1.2E-07	4.1E-11	1.2E-10	7.1E-11	6.5E-11	2.9E-11	1.4E-12	3.3E-11	1.7E-11	1.5E-11	4.6E-12	7.1E-11
915 UCAR	556292.49	3776637.81	556292.49, 3776637.81	0.62429	0.55141	0.55973	9.5711E-08	2.89848E-09	2.04998E-08	1.2E-07	4.1E-11	1.2E-10	7.2E-11	6.5E-11	3.0E-11	1.4E-12	3.3E-11	1.7E-11	1.6E-11	4.7E-12	7.2E-11
916 UCAR	556312.49	3776637.81	556312.49, 3776637.81	0.63785	0.56243	0.5715	9.77899E-08	2.95641E-09	2.09309E-08	1.2E-07	4.2E-11	1.3E-10	7.4E-11	6.7E-11	3.0E-11	1.4E-12	3.4E-11	1.7E-11	1.6E-11	4.8E-12	7.4E-11
917 UCAR	556332.49	3776637.81	556332.49, 3776637.81	0.66175	0.5825	0.59158	1.01454E-07	3.0619E-09	2.16663E-08	1.3E-07	4.4E-11	1.3E-10	7.6E-11	6.9E-11	3.2E-11	1.5E-12	3.5E-11	1.8E-11	1.6E-11	5.0E-12	7.6E-11
918 UCAR	556352.49	3776637.81	556352.49, 3776637.81	0.6798	0.59778	0.60637	1.04221E-07	3.14222E-09	2.2208E-08	1.3E-07	4.5E-11	1.4E-10	7.8E-11	7.1E-11	3.2E-11	1.5E-12	3.6E-11	1.9E-11	1.7E-11	5.1E-12	7.8E-11
919 UCAR	556372.49	3776637.81	556372.49, 3776637.81	0.70624	0.62047	0.62776	1.08275E-07	3.26149E-09	2.29914E-08	1.3E-07	4.7E-11	1.4E-10	8.1E-11	7.4E-11	3.4E-11	1.6E-12	3.8E-11	1.9E-11	1.8E-11	5.3E-12	8.1E-11
920 UCAR	556392.49	3

Operational Delivery Truck Risk

	OnSite Travel	OnSite Idle	Off-Site Travel
Emissions Rate (g/s):	1.53312E-07	5.25649E-09	3.66E-08

Discrete Receptor ID					Concentration [µg/m^3] at 1 g/s			Unmitigated				Residential Dose					Risk by Age Group					
	X		Y	X, Y	OnSite Travel	OnSite Idle	Off-Site Travel	OnSite Travel	OnSite Idle	Off-Site Travel	Total	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
961	UCAR	556252.49	3776717.81	556252.49, 3776717.81	0.72309	0.63713	0.64332	1.10858E-07	3.34907E-09	2.35613E-08	1.4E-07	4.8E-11	1.4E-10	8.3E-11	7.6E-11	3.4E-11	1.6E-12	3.8E-11	2.0E-11	1.8E-11	5.4E-12	8.3E-11
962	UCAR	556272.49	3776717.81	556272.49, 3776717.81	0.74847	0.65696	0.66605	1.14749E-07	3.4533E-09	2.43937E-08	1.4E-07	4.9E-11	1.5E-10	8.6E-11	7.8E-11	3.6E-11	1.6E-12	4.0E-11	2.1E-11	1.9E-11	5.6E-12	8.6E-11
963	UCAR	556372.49	3776717.81	556372.49, 3776717.81	0.87735	0.75687	0.77897	1.34508E-07	3.97848E-09	2.85294E-08	1.7E-07	5.8E-11	1.7E-10	1.0E-10	9.2E-11	4.2E-11	1.9E-12	4.7E-11	2.4E-11	2.2E-11	6.6E-12	1.0E-10
964	UCAR	556392.49	3776717.81	556392.49, 3776717.81	0.88591	0.7627	0.78606	1.3582E-07	4.00912E-09	2.8789E-08	1.7E-07	5.8E-11	1.8E-10	1.0E-10	9.2E-11	4.2E-11	1.9E-12	4.7E-11	2.4E-11	2.2E-11	6.7E-12	1.0E-10
965	UCAR	556412.49	3776717.81	556412.49, 3776717.81	0.92016	0.79071	0.81375	1.41071E-07	4.15636E-09	2.98032E-08	1.8E-07	6.1E-11	1.8E-10	1.1E-10	9.6E-11	4.4E-11	2.0E-12	4.9E-11	2.5E-11	2.3E-11	6.9E-12	1.1E-10
966	UCAR	556432.49	3776717.81	556432.49, 3776717.81	0.94455	0.81085	0.83267	1.44811E-07	4.26222E-09	3.04961E-08	1.8E-07	6.2E-11	1.9E-10	1.1E-10	9.8E-11	4.5E-11	2.1E-12	5.0E-11	2.6E-11	2.3E-11	7.1E-12	1.1E-10
967	UCAR	556452.49	3776717.81	556452.49, 3776717.81	0.96926	0.83181	0.85133	1.48599E-07	4.3724E-09	3.11795E-08	1.8E-07	6.4E-11	1.9E-10	1.1E-10	1.0E-10	4.6E-11	2.1E-12	5.1E-11	2.6E-11	2.4E-11	7.3E-12	1.1E-10
968	UCAR	556472.49	3776717.81	556472.49, 3776717.81	1.01895	0.87415	0.89029	1.56217E-07	4.59496E-09	3.26064E-08	1.9E-07	6.7E-11	2.0E-10	1.2E-10	1.1E-10	4.8E-11	2.2E-12	5.4E-11	2.8E-11	2.5E-11	7.6E-12	1.2E-10
969	UCAR	556492.49	3776717.81	556492.49, 3776717.81	1.04754	0.89919	0.91189	1.606E-07	4.72658E-09	3.33975E-08	2E-07	6.9E-11	2.1E-10	1.2E-10	1.1E-10	5.0E-11	2.3E-12	5.5E-11	2.9E-11	2.6E-11	7.8E-12	1.2E-10
970	1	556267.4	3776875.81	556267.4, 3776875.81	1.18575	1.00372	1.0647	1.81789E-07	5.27604E-09	3.89941E-08	2.3E-07	7.8E-11	2.4E-10	1.4E-10	1.2E-10	5.7E-11	2.6E-12	6.3E-11	3.2E-11	2.9E-11	8.9E-12	1.4E-10
971	1	556239.03	3776853.02	556239.03, 3776853.02	1.03672	0.88862	0.92953	1.58941E-07	4.67102E-09	3.40436E-08	2E-07	6.8E-11	2.1E-10	1.2E-10	1.1E-10	4.9E-11	2.3E-12	5.5E-11	2.8E-11	2.6E-11	7.8E-12	1.2E-10
972	1	556178.76	3776751.21	556178.76, 3776751.21	0.74787	0.66052	0.66452	1.14657E-07	3.47202E-09	2.43377E-08	1.4E-07	4.9E-11	1.5E-10	8.6E-11	7.8E-11	3.6E-11	1.6E-12	4.0E-11	2.0E-11	1.9E-11	5.6E-12	8.6E-11
973	1	556154.45	3776774.51	556154.45, 3776774.51	0.74646	0.65887	0.66672	1.14441E-07	3.46334E-09	2.44183E-08	1.4E-07	4.9E-11	1.5E-10	8.6E-11	7.8E-11	3.6E-11	1.6E-12	4.0E-11	2.0E-11	1.9E-11	5.6E-12	8.6E-11
974	1	556119.5	3776705.11	556119.5, 3776705.11	0.61385	0.55001	0.54645	9.41104E-08	2.89112E-09	2.00135E-08	1.2E-07	4.1E-11	1.2E-10	7.1E-11	6.4E-11	2.9E-11	1.4E-12	3.3E-11	1.7E-11	1.5E-11	4.6E-12	7.1E-11
975	1	556146.51	3777267.93	556146.51, 3777267.93	1.88803	1.61128	1.92558	2.89457E-07	8.46967E-09	7.05234E-08	3.7E-07	1.3E-10	3.9E-10	2.2E-10	2.0E-10	9.2E-11	4.3E-12	1.0E-10	5.3E-11	4.8E-11	1.5E-11	2.2E-10
976	1	556151	3777234.88	556151, 3777234.88	1.87731	1.59442	1.90334	2.87814E-07	8.38105E-09	6.97088E-08	3.7E-07	1.3E-10	3.8E-10	2.2E-10	2.0E-10	9.2E-11	4.2E-12	1.0E-10	5.3E-11	4.8E-11	1.4E-11	2.2E-10
977	1	556144.93	3777179.58	556144.93, 3777179.58	1.75659	1.49789	1.7447	2.69306E-07	7.87364E-09	6.38987E-08	3.4E-07	1.2E-10	3.6E-10	2.1E-10	1.9E-10	8.5E-11	3.9E-12	9.5E-11	4.9E-11	4.4E-11	1.3E-11	2.1E-10
978	1	556205.18	3777236.46	556205.18, 3777236.46	2.21467	1.84703	2.27142	3.39535E-07	9.70889E-09	8.31896E-08	4.3E-07	1.5E-10	4.5E-10	2.6E-10	2.4E-10	1.1E-10	5.0E-12	1.2E-10	6.2E-11	5.6E-11	1.7E-11	2.6E-10
979	1	556218	3777200.04	556218, 3777200.04	2.22445	1.85193	2.20459	3.41034E-07	9.73465E-09	8.0742E-08	4.3E-07	1.5E-10	4.5E-10	2.6E-10	2.4E-10	1.1E-10	5.0E-12	1.2E-10	6.2E-11	5.6E-11	1.7E-11	2.6E-10
980	1	556772	3777345.97	556772, 3777345.97	17.79315	20.15416	23.94682	2.7279E-06	1.0594E-07	8.7704E-07	3.7E-06	1.3E-09	3.9E-09	2.2E-09	2.0E-09	9.3E-10	4.3E-11	1.0E-09	5.3E-10	4.8E-10	1.5E-10	2.2E-09

Operational Risk - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s				Unmitigated					Residential Dose					Risk by Age Group				
		X	Y	X, Y	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Combined	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
1	1	556521.71	3777341.57	556521.71, 3777341.5	7.72977	7.76816	7.82823	7.82334	7.50E-04	1.34E-03	2.53E-04	4.05E-05	2.39E-03	8.3E-07	2.5E-06	1.4E-06	1.3E-06	6.0E-07	2.5E-09	6.1E-08	3.1E-08	2.8E-08	8.6E-09	1.3E-07
2	1	556539.9	3777344.94	556539.9, 3777344.94	8.41032	8.44171	8.57111	8.56566	8.17E-04	1.46E-03	2.77E-04	4.44E-05	2.60E-03	9.0E-07	2.7E-06	1.6E-06	1.4E-06	6.5E-07	2.7E-09	6.6E-08	3.4E-08	3.1E-08	9.3E-09	1.4E-07
3	1	556591.78	3777345.39	556591.78, 3777345.3	11.15793	11.16658	11.5301	11.52176	0.001083295	1.93E-03	3.73E-04	5.97E-05	3.44E-03	1.2E-06	3.6E-06	2.1E-06	1.9E-06	8.6E-07	3.6E-09	8.7E-08	4.5E-08	4.1E-08	1.2E-08	1.9E-07
4	1	556630.62	3777349.66	556630.62, 3777349.6	14.05325	14.05069	14.75573	14.74417	0.001364394	2.43E-03	4.78E-04	7.63E-05	4.34E-03	1.5E-06	4.5E-06	2.6E-06	2.4E-06	1.1E-06	4.6E-09	1.1E-07	5.7E-08	5.1E-08	1.6E-08	2.4E-07
5	1	556684.29	3777349.43	556684.29, 3777349.4	20.1615	20.22877	21.86417	21.84678	0.001957428	3.49E-03	7.08E-04	1.13E-04	6.27E-03	2.2E-06	6.6E-06	3.8E-06	3.4E-06	1.6E-06	6.6E-09	1.6E-07	8.2E-08	7.4E-08	2.3E-08	3.4E-07
6	1	556905.58	3777351.19	556905.58, 3777351.1	22.06336	22.26454	28.15491	28.19831	0.002142075	3.84E-03	9.11E-04	1.46E-04	7.04E-03	2.4E-06	7.4E-06	4.3E-06	3.9E-06	1.8E-06	7.4E-09	1.8E-07	9.2E-08	8.3E-08	2.5E-08	3.9E-07
7	1	556920.93	3777350.82	556920.93, 3777350.8	19.97308	20.14589	24.77558	24.81767	0.001939135	3.48E-03	8.02E-04	1.29E-04	6.35E-03	2.2E-06	6.6E-06	3.8E-06	3.5E-06	1.6E-06	6.7E-09	1.6E-07	8.3E-08	7.5E-08	2.3E-08	3.5E-07
8	1	556942.87	3777350.09	556942.87, 3777350.0	16.82521	16.85221	20.38004	20.41379	0.001633516	2.91E-03	6.60E-04	1.06E-04	5.31E-03	1.8E-06	5.5E-06	3.2E-06	2.9E-06	1.3E-06	5.6E-09	1.3E-07	6.9E-08	6.3E-08	1.9E-08	2.9E-07
9	1	556996.26	3777348.26	556996.26, 3777348.2	11.69985	11.66248	14.31855	14.33431	0.001135908	2.01E-03	4.63E-04	7.42E-05	3.69E-03	1.3E-06	3.9E-06	2.2E-06	2.0E-06	9.2E-07	3.9E-09	9.4E-08	4.8E-08	4.4E-08	1.3E-08	2.0E-07
10	1	557096.81	3777357.77	557096.81, 3777357.7	7.54878	7.52515	8.89899	8.90623	0.000732892	1.30E-03	2.88E-04	4.61E-05	2.37E-03	8.2E-07	2.5E-06	1.4E-06	1.3E-06	5.9E-07	2.5E-09	6.0E-08	3.1E-08	2.8E-08	8.5E-09	1.3E-07
11	1	557115.83	3777363.62	557115.83, 3777363.6	6.89269	6.87514	8.0396	8.04581	0.000669193	1.19E-03	2.60E-04	4.17E-05	2.16E-03	7.5E-07	2.3E-06	1.3E-06	1.2E-06	5.4E-07	2.3E-09	5.5E-08	2.8E-08	2.6E-08	7.7E-09	1.2E-07
12	1	557129.36	3777361.43	557129.36, 3777361.4	6.70264	6.69607	7.74895	7.75487	0.000650742	1.16E-03	2.51E-04	4.02E-05	2.10E-03	7.3E-07	2.2E-06	1.3E-06	1.2E-06	5.2E-07	2.2E-09	5.3E-08	2.7E-08	2.5E-08	7.5E-09	1.2E-07
13	1	557230.65	3777363.99	557230.65, 3777363.9	4.98003	4.99822	5.46013	5.46367	0.000483498	8.63E-04	1.77E-04	2.83E-05	1.55E-03	5.4E-07	1.6E-06	9.4E-07	8.5E-07	3.9E-07	1.6E-09	3.9E-08	2.0E-08	1.8E-08	5.6E-09	8.5E-08
14	1	556466.22	3776816.07	556466.22, 3776816.0	1.04955	1.06519	0.90415	0.90331	0.000101898	1.84E-04	2.93E-05	4.68E-06	3.20E-04	1.1E-07	3.3E-07	1.9E-07	1.8E-07	8.0E-08	3.4E-10	8.1E-09	4.2E-09	3.8E-09	1.1E-09	1.8E-08
15	1	556407.87	3776826.19	556407.87, 3776826.1	0.9809	0.99216	0.83044	0.8298	9.5233E-05	1.71E-04	2.69E-05	4.30E-06	2.98E-04	1.0E-07	3.1E-07	1.8E-07	1.6E-07	7.4E-08	3.1E-10	7.6E-09	3.9E-09	3.5E-09	1.1E-09	1.6E-08
16	1	556381.07	3777200.43	556381.07, 3776807.1	0.89787	0.90804	0.76344	0.76289	8.71719E-05	1.57E-04	2.47E-05	3.95E-06	2.73E-04	9.4E-08	2.8E-07	1.6E-07	1.5E-07	6.8E-08	2.9E-10	6.9E-09	3.6E-09	3.2E-09	9.8E-10	1.5E-08
17	1	556404.29	3776771.52	556404.29, 3776771.5	0.82044	0.8291	0.71686	0.71625	7.96544E-05	1.43E-04	2.32E-05	3.71E-06	2.50E-04	8.6E-08	2.6E-07	1.5E-07	1.4E-07	6.2E-08	2.6E-10	6.3E-09	3.3E-09	3.0E-09	9.0E-10	1.4E-08
18	1	556465.21	3776739.51	556465.21, 3776739.5	0.88569	0.90526	0.7544	0.75378	8.59894E-05	1.56E-04	2.44E-05	3.90E-06	2.71E-04	9.4E-08	2.8E-07	1.6E-07	1.5E-07	6.8E-08	2.8E-10	6.9E-09	3.5E-09	3.2E-09	9.7E-10	1.5E-08
19	1	556396.1	3776739.93	556396.1, 3776739.93	0.76047	0.7709	0.66672	0.66615	7.38321E-05	1.33E-04	2.16E-05	3.45E-06	2.32E-04	8.0E-08	2.4E-07	1.4E-07	1.3E-07	5.8E-08	2.4E-10	5.9E-09	3.0E-09	2.7E-09	8.3E-10	1.3E-08
20	1	556323.99	3777265.43	556323.99, 3777265.4	3.27323	3.27157	3.12804	3.12617	0.000317789	5.65E-04	1.01E-04	1.62E-05	1.00E-03	3.5E-07	1.0E-06	6.0E-07	5.5E-07	2.5E-07	1.1E-09	2.5E-08	1.3E-08	1.2E-08	3.6E-09	5.5E-08
21	1	556330.6	3777233.99	556330.6, 3777233.99	3.1481	3.13374	3.00885	3.00702	0.000305641	5.41E-04	9.74E-05	1.56E-05	9.59E-04	3.3E-07	1.0E-06	5.8E-07	5.3E-07	2.4E-07	1.0E-09	2.4E-08	1.3E-08	1.1E-08	3.4E-09	5.3E-08
22	1	556321.08	3777200.43	556321.08, 3777200.4	2.83117	2.81321	2.70906	2.70747	0.000274871	4.86E-04	8.77E-05	1.40E-05	8.62E-04	3.0E-07	9.0E-07	5.2E-07	4.7E-07	2.2E-07	9.1E-10	2.2E-08	1.1E-08	1.0E-08	3.1E-09	4.7E-08
23	1	556275.11	3777267.81	556275.11, 3777267.8	2.77266	2.76938	2.6685	2.66705	0.00026919	4.78E-04	8.64E-05	1.38E-05	8.47E-04	2.9E-07	8.9E-07	5.1E-07	4.6E-07	2.1E-07	8.9E-10	2.2E-08	1.1E-08	1.0E-08	3.0E-09	4.7E-08
24	1	556278.28	3777233.46	556278.28, 3777233.4	2.62941	2.61547	2.53132	2.52994	0.000255283	4.51E-04	8.19E-05	1.31E-05	8.02E-04	2.8E-07	8.4E-07	4.9E-07	4.4E-07	2.0E-07	8.4E-10	2.0E-08	1.0E-08	9.5E-09	2.9E-09	4.4E-08
25	UCAR	556509.4	3777373.38	556509.4, 3777373.38	6.99322	7.00455	7.15579	7.15187	0.000678954	1.21E-03	2.32E-04	3.70E-05	2.16E-03	7.5E-07	2.3E-06	1.3E-06	1.2E-06	5.4E-07	2.3E-09	5.5E-08	2.8E-08	2.6E-08	7.7E-09	1.2E-07
26	UCAR	556529.4	3777373.38	556529.4, 3777373.38	7.65901	7.66344	7.8692	7.86476	0.000743593	1.32E-03	2.55E-04	4.07E-05	2.36E-03	8.2E-07	2.5E-06	1.4E-06	1.3E-06	5.9E-07	2.5E-09	6.0E-08	3.1E-08	2.8E-08	8.5E-09	1.3E-07
27	UCAR	556549.4	3777373.38	556549.4, 3777373.38	8.44218	8.44433	8.70862	8.7035	0.000819629	1.46E-03	2.82E-04	4.51E-05	2.60E-03	9.0E-07	2.7E-06	1.6E-06	1.4E-06	6.5E-07	2.7E-09	6.6E-08	3.4E-08	3.1E-08	9.3E-09	1.4E-07
28	UCAR	556569.4	3777373.38	556569.4, 3777373.38	9.34486	9.35024	9.68387	9.67795	0.000907268	1.61E-03	3.13E-04	5.01E-05	2.88E-03	1.0E-06	3.0E-06	1.7E-06	1.6E-06	7.2E-07	3.0E-09	7.3E-08	3.8E-08	3.4E-08	1.0E-08	1.6E-07
29	UCAR	556589.4	3777373.38	556589.4, 3777373.38	10.42274	10.42662	10.86473	10.85775	0.001011917	1.80E-03	3.52E-04	5.62E-05	3.22E-03	1.1E-06	3.4E-06	1.9E-06	1.8E-06	8.1E-07	3.4E-09	8.2E-08	4.2E-08	3.8E-08	1.2E-08	1.8E-07
30	UCAR	556609.4	3777373.38	556609.4, 3777373.38	11.64621	11.63895	12.23052	12.22242	0.0011307	2.01E-03	3.96E-04	6.33E-05	3.60E-03	1.2E-06	3.8E-06	2.2E-06	2.0E-06	9.0E-07	3.8E-09	9.1E-08	4.7E-08	4.3E-08	1.3E-08	2.0E-07
31	UCAR	556629.4	3777373.38	556629.4, 3777373.38	13.1124	13.08939	13.88171	13.87223	0.001273049	2.26E-03	4.49E-04	7.18E-05	4.05E-03	1.4E-06	4.2E-06	2.5E-06	2.2E-06	1.0E-06	4.3E-09	1.0E-07	5.3E-08	4.8E-08	1.5E-08	2.2E-07
32	UCAR	556649.4	3777373.38	556649.4, 3777373.38	14.80818	14.80165	15.80793	15.79712	0.001437688	2.55E-03	5.12E-04	8.18E-05	4.59E-03	1.6E-06	4.8E-06	2.8E-06	2.5E-06	1.1E-06	4.8E-09	1.2E-07	6.0E-08	5.4E-08	1.6E-08	2.5E-07
33	UCAR	556669.4	3777373.38	556669.4, 3777373.38	16.76079	16.8381	18.13511	18.12323	0.001627262	2.91E-03	5.87E-04	9.38E-05	5.21E-03	1.8E-06	5.4E-06	3.2E-06	2.9E-06	1.3E-06	5.5E-09	1.3E-07	6.8E-08	6.2E-08	1.9E-08	2.9E-07
34	UCAR	556689.4	3777373.38	556689.4, 3777373.38	18.64927	18.86786	20.79484	20.78377	0.001810609	3.26E-03	6.73E-04	1.08E-04	5.85E-03	2.0E-06	6.1E-06	3.5E-06	3.2E-06	1.5E-06	6.1E-09	1.5E-07	7.6E-08	6.9E-08	2.1E-08	3.2E-07
35	UCAR	556709.4	3777373.38	556709.4, 3777373.38	19.79299	20.09255	23.35606	23.35088	0.00192165	3.47E-03	7.56E-04	1.21E-04	6.27E-03	2.2E-06	6.5E-06	3.8E-06	3.4E-06	1.6E-06	6.6E-09	1.6E-07	8.2E-08	7.4E-08	2.2E-08	3.4E-07
36	UCAR	556729.4	3777373.38	556729.4, 3777373.38	19.70907	19.90755	25.02138	25.02896	0.001913503	3.44E-03	8.10E-04	1.30E-04	6.29E-03	2.2E-06	6.6E-06	3.8E-06	3.4E-06	1.6E-06	6.6E-09	1.6E-07	8.2E-08	7.5E-08	2.3E-08	3.5E-07
37	UCAR	556749.4	3777373.38	556749.4, 3777373.38	18.85093	18.88396	25.14114	25.16271	0.001830188	3.26E-03	8.14E-04	1.30E-04	6.03E-03	2.1E-06	6.3E-06	3.7E-06	3.3E-06	1.5E-06	6.3E-09	1.5E-07	7.9E-08	7.1E-08	2.2E-08	3.3E-07
38	UCAR	556769.4	3777373.38	556769.4, 3777373.38	18.1261	18.14385	23.82975	23.8542	0.001759816	3.13E-03	7.71E-04	1.24E-04	5.79E-03	2.0E-06	6.0E-06	3.5E-06	3.2E-06	1.4E-06	6.1E-09	1.5E-07	7.6E-08	6.9E-08	2.1E-08	3.2E-07
39	UCAR	556789.4	3777373.38	556789.4, 3777373.38	18.19202	18.27595	22.95237	22.9668	0.001766216	3.15E-03	7.43E-04	1.19E-04	5.78E-03	2.0E-06	6.0E-06	3.5E-06	3.2E-06	1.4E-06	6.1E-09	1.5E-07	7.6E-08	6.9E-08	2.1E-08	3.2E-07
40	UCAR	556809.4	3777373.38	556809.4, 3777373.38	18.7602	18.82986	23.44784	23.45378	0.001821379	3.25E-03	7.59E-04	1.21E-04	5.95E-03	2.1E-06	6.2E-06	3.6E-06	3.3E-06	1.5E-06	6.3E-09	1.5E-07	7.8E-08	7.1E-08	2.1E-08	3.3E-07
41	UCAR	556829.4	3777373.38	556829.4, 3777373.38	19.3558	19.38967	24.52041	24.52636	0.001879208	3.35E-03	7.94E-04	1.27E-04	6.15E-03	2.1E-06	6.4E-06	3.7E-06	3.4E-06	1.5E-06	6.5E-09	1.6E-07	8.0E-08	7.3E-08	2.2E-08	3.4E-07
42	UCAR	556849.4	3777373.38	556849.4, 3777373.38	19.77283	19.82528	25.32981	25.34001	0.001919693	3.42E-03	8.20E-04	1.31E-04	6.29E-03	2.2E-06	6.6E-06	3.8E-06	3.5E-06	1.6E-06	6.6E-09	1.6E-07	8.2E-08	7.5E-08	2.3E-08	3.5E-07
43	UCAR	556869.4	3777373.38	556869.4, 3777373.38	19.86734	19.94282	25.54506	25.56169	0.001928869	3.44E-03	8.27E-04	1.32E-04	6.33E-03	2.2E-06	6.6E-06	3.8E-06	3.5E-06	1.6E-06	6.7E-09	1.6E-07	8.3E-08	7.5E-08	2.3E-08	3.5E-07
44	UCAR	556889.4	3777373.38	556889.4, 3777373.38	19.2723	19.37464	24.53825	24.56224	0.001871098	3.34E-03	7.94E-04	1.27E-04	6.14E-03	2.1E-06	6.4E-06	3.7E-06	3.4E-06	1.5E-06	6.4E-09	1.6E-07	8.0E-08	7.3E-08	2.2E-08	3.4E-07
45	UCAR	556909.4	3777373.38	556909.4, 3777373.38	17.98892	18.13501	22.35559	22.38435	0.001746498	3.13E-03	7.23E-04	1.16E-04	5.72E-03	2.0E-06	6.0E-06	3.5E-06	3.1E-06	1.4E-06	6.0E-09	1.5E-07	7.5E-08	6.8E-08	2.1E-08	3.1E-07
46	UCAR	556929.4	3777373.38	556929.4, 3777373.38	16.10732	16.24638	19.44823	19.47695	0.001563818	2.80E-03	6.29E-04	1.01E-04	5.10E-03	1.8E-06	5.3E-06	3.1E-06	2.8E-06	1.3E-06	5.4E-09	1.3E-07	6.7E-08	6.0E-08	1.8E-08	2.8E-07
47	UCAR	556949.4	3777373.38	556949.4, 3777373.38	13.98022	14.02654	16.57048	16.59518	0.001357303	2.42E-03	5.36E-04	8.59E-05	4.40E-03	1.5E-06	4.6E-06	2.7E-06	2.4E-06	1.1E-06	4.6E-09	1.1E-07	5.8E-08	5.2E-08	1.6E-08	2.4E-07
48	UCAR	556969.4	3777373.38	556969.4, 3777373.38	12.02196	11.97446	14.20167	14.22092	0.001167181	2.07E-03	4.60E-04	7.36E-05	3.77E-03	1.3E-06	3.9E-06	2.3E-06	2.1E-06	9.4E-07	4.0E-09	9.6E-08	4.9E-08	4.5E-08	1.4E-08	2.1E-07
49	UCAR	556989.4	3777373.38	556989.4, 3777373.38	10.48406	10.41642	12.43974	12.45424	0.00101787	1.80E-03	4.03E-04	6.45E-05	3.28E-03	1.1E-06	3.4E-06	2.0E-06	1.8E-06	8.2E-07	3.4E-09	8.3E-08	4.3E-08	3.9E-08	1.2E-08	1.8E-07
50	UCAR	557009.4	3777373.38	557009.4, 3777373.38	9.38439	9.34677	11.17708	11.18831	0.000911106	1.61E-03	3.62E-04	5.79E-05	2.94E-03	1.0E-06	3.1E-06	1.8E-06	1.6E-06	7.4E-07	3.1E-09	7.5E-08	3.8E-08	3.5E-08	1.1E-08	1.6E-07
51	UCAR	557029.4	3777373.38	557029.4, 3777373.38	8.61372	8.60011	10.27024	10.27945	0.000836284	1.48E-03	3.32E-04	5.32E-05	2.71E-03	9.4E-07	2.8E-06	1.6E-06	1.5E-06	6.8E-07	2.8E-09	6.9E-08	3.5E-08	3.2E-08	9.7E-09	1.5E-07
52	UCAR	557049.4	3777373.38	557049.4, 3777373.38	8.00725	7.99491	9.53471	9.54266	0.000777403	1.38E-03	3.09E-04	4.94E-05	2.52E-03	8.7E-07	2.6E-06	1.5E-06	1.4E-06	6.3E-07	2.6E-09	6.4E-08	3.3E-08	3.0E-08	9.0E-09	1.4E-07
53	UCAR	557069.4	3777373.38	557069.4, 3777373.38	7.48216	7.4606	8.87821	8.88527	0.000726424	1.29E-03	2.87E-04	4.60E-05	2.35E-03	8.1E-07	2.5E-06	1.4E-06	1.3E-06	5.9E-07	2.5E-09	6.0E-08	3.1E-08	2.8E-08	8.4E-09	1.3E-07
54	UCAR	557089.4	3777373.38	557089.4, 3777373.38	7.03491	7.00681	8.30106	8.30744	0.000683001	1.21E-03	2.69E-04	4.30E-05	2.20E-03	7.6E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.6E-08	2.9E-08	2.6E-08	7.9E-09	1.2E-07
55	UCAR	557109.4	3777373.38	557109.4, 3777373.38	6.63711	6.61087	7.76953	7.77535	0.00064438	1.14E-03	2.51E-04	4.03E-05	2.08E-03	7.2E-07	2.2E-06	1.3E-06	1.1E-06	5.2E-07	2.2E-09	5.3E-08	2.7E-08	2.5E-08	7.5E-09	1.1E-07
56	UCAR	557129.4	3777373.38	557129.4, 3777373.38	6.27895	6.26124	7.27813	7.28344	0.000609607	1.08E-03	2.36E-04	3.77E-05	1.96E-03	6.8E-07	2.1E-06	1.2E-06	1.1E-06	4.9E-07	2.1E-09	5.0E-08	2.6E-08	2.3E-08	7.0E-09	1.1E-07
57	UCAR	557149.4	3777373.38	557149.4, 3777373.38	5.94935	5.94291	6.82087	6.82571	0.000577607	1.03E-03	2.21E-04	3.53E-05	1.84E-03	6.4E-07	1.9E-06	1.1E-06	1.0E-06	4.7E-07	2.0E-09	4.7E-08	2.4E-08	2.2E-08	6.7E-09	1.0E-07
58	UCAR	557169.4	3777373.38	557169.4, 3777373.38	5.64584	5.64991	6.40113	6.40556	0.000548814	9.75E-04	2.07E-04	3.32E-05	1.76E-03	6.1E-07	1.8E-06	1.1E-06	9.7E-07	4.5E-07	1.9E-09	4.5E-08	2.3E-08	2.1E-08	6.3E-09	9.6E-08
59	UCAR	557189.4	3777373.38	557189.4, 3777373.38	5.36878	5.38057	6.02274	6.02679	0.000521241	9.29E-04	1.95E-04	3.12E-05	1.68E-03	5.8E-07	1.8E-06	1.0E-06	9.2E-07	4.2E-07	1.8E-09	4.3E-08	2.2E-08	2.0E-08	6.0E-09	9.2E-08
60	UCAR	557209.4	3777373.38	557209.4, 3777373.38	5.10011	5.11636	5.66537	5.66907	0.000495156	8.83E-04	1.83E-04	2.94E-05	1.59E-03	5.5E-07	1.7E-06	9.6E-07	8.7E-07	4.0E-07	1.7E-09	4.0E-08	2.1E-08	1.9E-08	5.7E-09	8.7E-08
61	UCAR	557229.4	3777373.38	557229.4, 3777373.38	4.83293	4.85062	5.32118	5.32456	0.000469217	8.37E-04	1.72E-04	2.76E-05	1.51E-03	5.2E-07	1.6E-06	9.1E-07	8.3E-07	3.8E-07	1.6E-09	3.8E-08	2.0E-08	1.8E-08	5.4E-09	8.3E-08
62	UCAR	557249.4	3777373.38	557249.4, 3777373.38	4.57363	4.59033	4.99669	4.99976	0.000444042	7.92E-04	1.62E-04	2.59E-05	1.42E-03	4.9E-07	1.5E-06	8.6E-07	7.8E-07	3.6E-07	1.5E-09	3.6E-08	1.9E-08	1.7E-08	5.1E-09	7.8E-08
63	UCAR	557269.4	3777373.38	557269.4, 3777373.38	4.32389	4.33797	4.69218	4.69498	0.000419795	7.49E-04	1.52E-04	2.43E-05	1.34E-03	4.7E-07	1.4E-06	8.1E-07	7.4E-07	3.4E-07	1.4E-09	3.4E-08	1.8E-08	1.6E-08	4.8E-09	7.4E-08
64	UCAR	557289.4	3777373.38	557289.4, 3777373.38	4.0976	4.10809	4.42128	4.42384	0.000397825	7.09E-04	1.43E-04	2.29E-05	1.27E-03	4.4E-07	1.3E-06	7.7E-07	7.0E-07	3.2E-07	1.3E-09	3.2E-08	1.7E-08	1.5E-08	4.6E-09	7.0E-08
65	UCAR	557309.4	3777373.38	557309.4, 3777373.38	3.88701	3.89357	4.17353	4.17586	0.00037738	6.72E-04	1.35E-04	2.16E-05	1.21E-03	4.2E-07	1.3E-06	7.3E-07	6.6E-07	3.0E-07	1.3E-09	3.1E-08	1.6E-08	1.4E-08	4.3E-09	6.6E-08
66	UCAR	557329.4	3777373.38	557329.4, 3777373.38	3.67564	3.67847	3.92952	3.93165	0.000356858	6.35E-04	1.27E-04	2.04E-05	1.14E-03	3.9E-07	1.2E-06	6.9E-07	6.2E-07	2.9E-07	1.2E-09	2.9E-08	1.5E-08	1.3E-08	4.1E-09	6.3E-08
67	UCAR	557349.4	3777373.38	557349.4, 3777373.38	3.49053	3.48988	3.71767	3.71962	0.000338887	6.02E-04	1.20E-04	1.93E-05	1.08E-03	3.7E-07	1.1E-06	6.5E-07	5.9E-07	2.7E-07	1.1E-09	2.7E-08	1.4E-08	1.3E-08	3.9E-09	5.9E-08
68	UCAR	557369.4	3777373.38	557369.4, 3777373.38	3.31049	3.30692	3.51402	3.51581	0.000321407	5.71E-04	1.14E-04	1.82E-05	1.02E-03	3.5E-07	1.1E-06	6.2E-07	5.6E-07	2.6E-07	1.1E-09	2.6E-08	1.3E-08	1.2E-08	3.7E-09	5.6E-08
69	UCAR	557389.4	3777373.38	557389.4, 3777373.38	3.14272	3.13681	3.32573	3.32737	0.000305119	5.41E-04	1.08E-04	1.72E-05	9.71E-04	3.4E-07	1.0E-06	5.9E-07	5.3E-07	2.4E-07	1.0E-09	2.5E-08	1.3E-08	1.2E-08	3.5E-09	5.3E-08
70	UCAR	557409.4	3777373.38	557409.4, 3777373.38	2.98633	2.97864	3.15129	3.1528	0.000289935	5.14E-04	1.02E-04	1.63E-05	9.22E-04	3.2E-07	9.6E-07	5.6E-07	5.1E-07	2.3E-07	9.7E-10	2.3E-08	1.2E-08	1.1E-08	3.3E-09	5.1E-08
71	UCAR	557429.4	3777373.38	557429.4, 3777373.38	2.83479	2.82592	2.98338	2.98477	0.000275222	4.88E-04	9.65E-05	1.55E-05	8.75E-04	3.0E-07	9.1E-07	5.3E-07	4.8E-07	2.2E-07	9.2E-10	2.2E-08	1.1E-08	1.0E-08	3.1E-09	4.8E-08
72	UCAR	557449.4	3777373.38	557449.4, 3777373.38	2.70071	2.69107	2.83509	2.83637	0.000262205	4.64E-04	9.18E-05	1.47E-05	8.33E-04	2.9E-07	8.7E-07	5.0E-07	4.6E-07	2.1E-07	8.8E-10	2.1E-08	1.1E-08	9.9E-09	3.0E-09	4.6E-08
73	UCAR	557469.4	3777373.38	557469.4, 3777373.38	2.57126	2.56131	2.69259	2.69377	0.000249637	4.42E-04	8.71E-05	1.39E-05	7.93E-04	2.7E-07	8.3E-07	4.8E-07	4.3E-07	2.0E-07	8.3E-10	2.0E-08	1.0E-08	9.4E-09	2.8E-09	4.4E-08
74	UCAR	557489.4	3777373.38	557489.4, 3777373.38	2.44089	2.43108	2.54996	2.55104	0.00023698	4.20E-04	8.25E-05	1.32E-05	7.52E-04	2.6E-07	7.9E-07	4.6E-07	4.1E-07	1

Operational Risk - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID			Concentration [µg/m^3] at 1 g/s				Unmitigated					Residential Dose					Risk by Age Group					
			Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point	Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point												
X	Y	X, Y	(Volume Source)	Source)	Source)	Source)	(Volume Source)	Source)	Source)	Source)	Combined	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
125 UCAR	556509.4	3777413.38 556509.4, 3777413.38	6.60887	6.60881	6.82293	6.81962	0.00641638	1.14E-03	2.21E-04	3.53E-05	2.04E-03	7.1E-07	2.1E-06	1.2E-06	1.1E-06	5.1E-07	2.1E-09	5.2E-08	2.7E-08	2.4E-08	7.3E-09	1.1E-07
126 UCAR	556529.4	3777413.38 556529.4, 3777413.38	7.21564	7.21879	7.47792	7.47418	0.000700548	1.25E-03	2.42E-04	3.87E-05	2.23E-03	7.7E-07	2.3E-06	1.3E-06	1.2E-06	5.6E-07	2.3E-09	5.7E-08	2.9E-08	2.6E-08	8.0E-09	1.2E-07
127 UCAR	556549.4	3777413.38 556549.4, 3777413.38	7.91395	7.91229	8.24443	8.24015	0.000768345	1.37E-03	2.67E-04	4.27E-05	2.44E-03	8.5E-07	2.6E-06	1.5E-06	1.3E-06	6.1E-07	2.6E-09	6.2E-08	3.2E-08	2.9E-08	8.8E-09	1.3E-07
128 UCAR	556569.4	3777413.38 556569.4, 3777413.38	8.71053	8.69502	9.12978	9.12489	0.000845683	1.50E-03	2.95E-04	4.72E-05	2.69E-03	9.3E-07	2.8E-06	1.6E-06	1.5E-06	6.7E-07	2.8E-09	6.8E-08	3.5E-08	3.2E-08	9.7E-09	1.5E-07
129 UCAR	556589.4	3777413.38 556589.4, 3777413.38	9.62809	9.59976	10.14974	10.14416	0.000934766	1.66E-03	3.28E-04	5.25E-05	2.97E-03	1.0E-06	3.1E-06	1.8E-06	1.6E-06	7.4E-07	3.1E-09	7.5E-08	3.9E-08	3.5E-08	1.1E-08	1.6E-07
130 UCAR	556609.4	3777413.38 556609.4, 3777413.38	10.68924	10.66856	11.32355	11.31728	0.001037791	1.84E-03	3.66E-04	5.86E-05	3.30E-03	1.1E-06	3.5E-06	2.0E-06	1.8E-06	8.3E-07	3.5E-09	8.4E-08	4.3E-08	3.9E-08	1.2E-08	1.8E-07
131 UCAR	556629.4	3777413.38 556629.4, 3777413.38	11.89866	11.92329	12.68781	12.68101	0.00115521	2.06E-03	4.11E-04	6.57E-05	3.69E-03	1.3E-06	3.9E-06	2.2E-06	2.0E-06	9.2E-07	3.9E-09	9.4E-08	4.8E-08	4.4E-08	1.3E-08	2.0E-07
132 UCAR	556649.4	3777413.38 556649.4, 3777413.38	13.04385	13.15472	14.10699	14.10067	0.001266394	2.27E-03	4.57E-04	7.30E-05	4.07E-03	1.4E-06	4.3E-06	2.5E-06	2.2E-06	1.0E-06	4.3E-09	1.0E-07	5.3E-08	4.8E-08	1.5E-08	2.2E-07
133 UCAR	556669.4	3777413.38 556669.4, 3777413.38	13.96756	14.16357	15.57149	15.56742	0.001356074	2.44E-03	5.04E-04	8.06E-05	4.39E-03	1.5E-06	4.6E-06	2.7E-06	2.4E-06	1.1E-06	4.6E-09	1.1E-07	5.7E-08	5.2E-08	1.6E-08	2.4E-07
134 UCAR	556689.4	3777413.38 556689.4, 3777413.38	14.31389	14.51692	16.7596	16.7606	0.001389699	2.51E-03	5.42E-04	8.68E-05	4.52E-03	1.6E-06	4.7E-06	2.7E-06	2.5E-06	1.1E-06	4.8E-09	1.1E-07	5.9E-08	5.4E-08	1.6E-08	2.5E-07
135 UCAR	556709.4	3777413.38 556709.4, 3777413.38	13.98927	14.08811	17.31894	17.32717	0.001358182	2.43E-03	5.60E-04	8.97E-05	4.44E-03	1.5E-06	4.6E-06	2.7E-06	2.4E-06	1.1E-06	4.7E-09	1.1E-07	5.8E-08	5.3E-08	1.6E-08	2.4E-07
136 UCAR	556729.4	3777413.38 556729.4, 3777413.38	13.29533	13.28391	17.00541	17.01957	0.001290809	2.29E-03	5.50E-04	8.81E-05	4.22E-03	1.5E-06	4.4E-06	2.6E-06	2.3E-06	1.1E-06	4.4E-09	1.1E-07	5.5E-08	5.0E-08	1.5E-08	2.3E-07
137 UCAR	556749.4	3777413.38 556749.4, 3777413.38	12.80293	12.79392	16.16097	16.17537	0.001243003	2.21E-03	5.23E-04	8.38E-05	4.06E-03	1.4E-06	4.2E-06	2.5E-06	2.2E-06	1.0E-06	4.3E-09	1.0E-07	5.3E-08	4.8E-08	1.5E-08	2.2E-07
138 UCAR	556769.4	3777413.38 556769.4, 3777413.38	12.84065	12.89151	15.64416	15.65352	0.001246666	2.23E-03	5.06E-04	8.11E-05	4.06E-03	1.4E-06	4.2E-06	2.5E-06	2.2E-06	1.0E-06	4.3E-09	1.0E-07	5.3E-08	4.8E-08	1.5E-08	2.2E-07
139 UCAR	556789.4	3777413.38 556789.4, 3777413.38	13.09182	13.1516	15.66045	15.66478	0.001271051	2.27E-03	5.07E-04	8.11E-05	4.13E-03	1.4E-06	4.3E-06	2.5E-06	2.3E-06	1.0E-06	4.3E-09	1.0E-07	5.4E-08	4.9E-08	1.5E-08	2.3E-07
140 UCAR	556809.4	3777413.38 556809.4, 3777413.38	13.44764	13.46426	16.19463	16.19748	0.001305597	2.32E-03	5.24E-04	8.39E-05	4.24E-03	1.5E-06	4.4E-06	2.6E-06	2.3E-06	1.1E-06	4.5E-09	1.1E-07	5.5E-08	5.0E-08	1.5E-08	2.3E-07
141 UCAR	556829.4	3777413.38 556829.4, 3777413.38	13.74769	13.75232	16.7269	16.7307	0.001334728	2.37E-03	5.41E-04	8.66E-05	4.34E-03	1.5E-06	4.5E-06	2.6E-06	2.4E-06	1.1E-06	4.6E-09	1.1E-07	5.7E-08	5.1E-08	1.6E-08	2.4E-07
142 UCAR	556849.4	3777413.38 556849.4, 3777413.38	13.97742	14.00617	17.1003	17.10596	0.001357032	2.42E-03	5.53E-04	8.86E-05	4.42E-03	1.5E-06	4.6E-06	2.7E-06	2.4E-06	1.1E-06	4.6E-09	1.1E-07	5.8E-08	5.2E-08	1.6E-08	2.4E-07
143 UCAR	556869.4	3777413.38 556869.4, 3777413.38	14.10616	14.14634	17.30805	17.31636	0.001369531	2.44E-03	5.60E-04	8.97E-05	4.46E-03	1.5E-06	4.7E-06	2.7E-06	2.4E-06	1.1E-06	4.7E-09	1.1E-07	5.8E-08	5.3E-08	1.6E-08	2.5E-07
144 UCAR	556889.4	3777413.38 556889.4, 3777413.38	13.89595	13.93649	16.99716	17.00876	0.001349122	2.41E-03	5.50E-04	8.81E-05	4.39E-03	1.5E-06	4.6E-06	2.7E-06	2.4E-06	1.1E-06	4.6E-09	1.1E-07	5.7E-08	5.2E-08	1.6E-08	2.4E-07
145 UCAR	556909.4	3777413.38 556909.4, 3777413.38	13.36828	13.43221	16.14915	16.16369	0.001297892	2.32E-03	5.23E-04	8.37E-05	4.22E-03	1.5E-06	4.4E-06	2.6E-06	2.3E-06	1.1E-06	4.4E-09	1.1E-07	5.5E-08	5.0E-08	1.5E-08	2.3E-07
146 UCAR	556929.4	3777413.38 556929.4, 3777413.38	12.57098	12.66929	14.89289	14.90918	0.001220484	2.19E-03	4.82E-04	7.72E-05	3.97E-03	1.4E-06	4.1E-06	2.4E-06	2.2E-06	9.9E-07	4.2E-09	1.0E-07	5.2E-08	4.7E-08	1.4E-08	2.2E-07
147 UCAR	556949.4	3777413.38 556949.4, 3777413.38	11.32945	11.42099	13.15562	13.17164	0.001099947	1.97E-03	4.26E-04	6.82E-05	3.57E-03	1.2E-06	3.7E-06	2.2E-06	2.0E-06	8.9E-07	3.7E-09	9.0E-08	4.7E-08	4.2E-08	1.3E-08	2.0E-07
148 UCAR	556969.4	3777413.38 556969.4, 3777413.38	10.01915	10.04976	11.51328	11.52754	0.000972733	1.73E-03	3.73E-04	5.97E-05	3.14E-03	1.1E-06	3.3E-06	1.9E-06	1.7E-06	7.9E-07	3.3E-09	8.0E-08	4.1E-08	3.7E-08	1.1E-08	1.7E-07
149 UCAR	556989.4	3777413.38 556989.4, 3777413.38	8.78279	8.74781	10.08763	10.09936	0.000852698	1.51E-03	3.26E-04	5.23E-05	2.74E-03	9.5E-07	2.9E-06	1.7E-06	1.5E-06	6.9E-07	2.9E-09	7.0E-08	3.6E-08	3.2E-08	9.8E-09	1.5E-07
150 UCAR	557009.4	3777413.38 557009.4, 3777413.38	7.78869	7.72928	8.98389	8.99317	0.000756184	1.33E-03	2.91E-04	4.66E-05	2.43E-03	8.4E-07	2.5E-06	1.5E-06	1.3E-06	6.1E-07	2.6E-09	6.2E-08	3.2E-08	2.9E-08	8.7E-09	1.3E-07
151 UCAR	557029.4	3777413.38 557029.4, 3777413.38	7.02614	6.98367	8.12773	8.13506	0.00068215	1.21E-03	2.63E-04	4.21E-05	2.19E-03	7.6E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.6E-08	2.9E-08	2.6E-08	7.9E-09	1.2E-07
152 UCAR	557049.4	3777413.38 557049.4, 3777413.38	6.47743	6.46062	7.49709	7.50307	0.000628877	1.12E-03	2.43E-04	3.89E-05	2.03E-03	7.0E-07	2.1E-06	1.2E-06	1.1E-06	5.1E-07	2.1E-09	5.1E-08	2.6E-08	2.4E-08	7.3E-09	1.1E-07
153 UCAR	557069.4	3777413.38 557069.4, 3777413.38	6.05529	6.0512	7.00437	7.00946	0.000587892	1.04E-03	2.27E-04	3.63E-05	1.90E-03	6.6E-07	2.0E-06	1.1E-06	1.0E-06	4.7E-07	2.0E-09	4.8E-08	2.5E-08	2.2E-08	6.8E-09	1.0E-07
154 UCAR	557089.4	3777413.38 557089.4, 3777413.38	5.70461	5.69851	6.59437	6.59887	0.000553846	9.84E-04	2.13E-04	3.42E-05	1.78E-03	6.2E-07	1.9E-06	1.1E-06	9.8E-07	4.5E-07	1.9E-09	4.5E-08	2.3E-08	2.1E-08	6.4E-09	9.8E-08
155 UCAR	557109.4	3777413.38 557109.4, 3777413.38	5.40664	5.39176	6.24525	6.24932	0.000524917	9.31E-04	2.02E-04	3.24E-05	1.69E-03	5.9E-07	1.8E-06	1.0E-06	9.3E-07	4.2E-07	1.8E-09	4.3E-08	2.2E-08	2.0E-08	6.1E-09	9.3E-08
156 UCAR	557129.4	3777413.38 557129.4, 3777413.38	5.11496	5.09337	5.89438	5.89811	0.000496598	8.79E-04	1.91E-04	3.05E-05	1.60E-03	5.5E-07	1.7E-06	9.7E-07	8.8E-07	4.0E-07	1.7E-09	4.1E-08	2.1E-08	1.9E-08	5.7E-09	8.8E-08
157 UCAR	557149.4	3777413.38 557149.4, 3777413.38	4.88571	4.86121	5.61132	5.61477	0.000474341	8.39E-04	1.82E-04	2.91E-05	1.52E-03	5.3E-07	1.6E-06	9.2E-07	8.4E-07	3.8E-07	1.6E-09	3.9E-08	2.0E-08	1.8E-08	5.5E-09	8.4E-08
158 UCAR	557169.4	3777413.38 557169.4, 3777413.38	4.65672	4.635	5.31829	5.3215	0.000452109	8.00E-04	1.72E-04	2.76E-05	1.45E-03	5.0E-07	1.5E-06	8.8E-07	8.0E-07	3.6E-07	1.5E-09	3.7E-08	1.9E-08	1.7E-08	5.2E-09	8.0E-08
159 UCAR	557189.4	3777413.38 557189.4, 3777413.38	4.45869	4.4429	5.05719	5.06018	0.000432883	7.67E-04	1.64E-04	2.62E-05	1.39E-03	4.8E-07	1.5E-06	8.4E-07	7.6E-07	3.5E-07	1.5E-09	3.5E-08	1.8E-08	1.6E-08	5.0E-09	7.6E-08
160 UCAR	557209.4	3777413.38 557209.4, 3777413.38	4.28214	4.27367	4.81963	4.82242	0.000415742	7.38E-04	1.56E-04	2.50E-05	1.33E-03	4.6E-07	1.4E-06	8.1E-07	7.3E-07	3.3E-07	1.4E-09	3.4E-08	1.7E-08	1.6E-08	4.8E-09	7.3E-08
161 UCAR	557229.4	3777413.38 557229.4, 3777413.38	4.10414	4.1031	4.58118	4.58378	0.00039846	7.08E-04	1.48E-04	2.37E-05	1.28E-03	4.4E-07	1.3E-06	7.7E-07	7.0E-07	3.2E-07	1.3E-09	3.2E-08	1.7E-08	1.5E-08	4.6E-09	7.0E-08
162 UCAR	557249.4	3777413.38 557249.4, 3777413.38	3.93511	3.9402	4.35689	4.35931	0.00038205	6.80E-04	1.41E-04	2.26E-05	1.23E-03	4.2E-07	1.3E-06	7.4E-07	6.7E-07	3.1E-07	1.3E-09	3.1E-08	1.6E-08	1.5E-08	4.4E-09	6.7E-08
163 UCAR	557269.4	3777413.38 557269.4, 3777413.38	3.77386	3.78328	4.14654	4.14879	0.000366394	6.53E-04	1.34E-04	2.15E-05	1.18E-03	4.1E-07	1.2E-06	7.1E-07	6.4E-07	2.9E-07	1.2E-09	3.0E-08	1.5E-08	1.4E-08	4.2E-09	6.5E-08
164 UCAR	557289.4	3777413.38 557289.4, 3777413.38	3.61548	3.62739	3.94485	3.94695	0.000351018	6.26E-04	1.28E-04	2.04E-05	1.13E-03	3.9E-07	1.2E-06	6.8E-07	6.2E-07	2.8E-07	1.2E-09	2.9E-08	1.5E-08	1.3E-08	4.0E-09	6.2E-08
165 UCAR	557309.4	3777413.38 557309.4, 3777413.38	3.4602	3.47294	3.75201	3.75396	0.000335904	5.99E-04	1.21E-04	1.94E-05	1.08E-03	3.7E-07	1.1E-06	6.5E-07	5.9E-07	2.7E-07	1.1E-09	2.7E-08	1.4E-08	1.3E-08	3.9E-09	5.9E-08
166 UCAR	557329.4	3777413.38 557329.4, 3777413.38	3.30532	3.31758	3.56454	3.56635	0.000320905	5.73E-04	1.15E-04	1.85E-05	1.03E-03	3.6E-07	1.1E-06	6.2E-07	5.6E-07	2.6E-07	1.1E-09	2.6E-08	1.3E-08	1.2E-08	3.7E-09	5.6E-08
167 UCAR	557349.4	3777413.38 557349.4, 3777413.38	3.16925	3.18001	3.40216	3.40384	0.000307694	5.49E-04	1.10E-04	1.76E-05	9.84E-04	3.4E-07	1.0E-06	6.0E-07	5.4E-07	2.5E-07	1.0E-09	2.5E-08	1.3E-08	1.2E-08	3.5E-09	5.4E-08
168 UCAR	557369.4	3777413.38 557369.4, 3777413.38	3.0238	3.03249	3.23293	3.23449	0.000293573	5.23E-04	1.05E-04	1.67E-05	9.38E-04	3.2E-07	9.8E-07	5.7E-07	5.1E-07	2.3E-07	9.9E-10	2.4E-08	1.2E-08	1.1E-08	3.4E-09	5.2E-08
169 UCAR	557389.4	3777413.38 557389.4, 3777413.38	2.89649	2.90275	3.08642	3.08787	0.000281213	5.01E-04	9.99E-05	1.60E-05	8.98E-04	3.1E-07	9.4E-07	5.4E-07	4.9E-07	2.2E-07	9.4E-10	2.3E-08	1.2E-08	1.1E-08	3.2E-09	4.9E-08
170 UCAR	557409.4	3777413.38 557409.4, 3777413.38	2.77209	2.77583	2.94529	2.94665	0.000269135	4.79E-04	9.53E-05	1.53E-05	8.59E-04	3.0E-07	9.0E-07	5.2E-07	4.7E-07	2.1E-07	9.0E-10	2.2E-08	1.1E-08	1.0E-08	3.1E-09	4.7E-08
171 UCAR	557429.4	3777413.38 557429.4, 3777413.38	2.64131	2.64266	2.7991	2.80036	0.000256438	4.56E-04	9.06E-05	1.45E-05	8.18E-04	2.8E-07	8.5E-07	4.9E-07	4.5E-07	2.0E-07	8.6E-10	2.1E-08	1.1E-08	9.7E-09	2.9E-09	4.5E-08
172 UCAR	557449.4	3777413.38 557449.4, 3777413.38	2.52746	2.52654	2.67253	2.6737	0.000245385	4.36E-04	8.65E-05	1.38E-05	7.82E-04	2.7E-07	8.2E-07	4.7E-07	4.3E-07	2.0E-07	8.2E-10	2.0E-08	1.0E-08	9.3E-09	2.8E-09	4.3E-08
173 UCAR	557469.4	3777413.38 557469.4, 3777413.38	2.42206	2.41911	2.55606	2.55715	0.000235152	4.18E-04	8.27E-05	1.32E-05	7.49E-04	2.6E-07	7.8E-07	4.5E-07	4.1E-07	1.9E-07	7.9E-10	1.9E-08	9.8E-09	8.9E-09	2.7E-09	4.1E-08
174 UCAR	557489.4	3777413.38 557489.4, 3777413.38	2.31291	2.30829	2.4364	2.43742	0.000224554	3.98E-04	7.88E-05	1.26E-05	7.14E-04	2.5E-07	7.5E-07	4.3E-07	3.9E-07	1.8E-07	7.5E-10	1.8E-08	9.3E-09	8.5E-09	2.6E-09	3.9E-08
175 UCAR	556509.4	3777433.38 556509.4, 3777433.38	6.42505	6.4274	6.6573	6.65425	0.000623791	1.11E-03	2.15E-04	3.45E-05	1.98E-03	6.9E-07	2.1E-06	1.2E-06	1.1E-06	5.0E-07	2.1E-09	5.0E-08	2.6E-08	2.3E-08	7.1E-09	1.1E-07
176 UCAR	556529.4	3777433.38 556529.4, 3777433.38	6.99008	6.98638	7.27874	7.27532	0.000678649	1.21E-03	2.36E-04	3.77E-05	2.16E-03	7.5E-07	2.3E-06	1.3E-06	1.2E-06	5.4E-07	2.3E-09	5.5E-08	2.8E-08	2.6E-08	7.7E-09	1.2E-07
177 UCAR	556549.4	3777433.38 556549.4, 3777433.38	7.63162	7.61491	7.99062	7.98678	0.000740934	1.31E-03	2.59E-04	4.14E-05	2.36E-03	8.2E-07	2.5E-06	1.4E-06	1.3E-06	5.9E-07	2.5E-09	6.0E-08	3.1E-08	2.8E-08	8.5E-09	1.3E-07
178 UCAR	556569.4	3777433.38 556569.4, 3777433.38	8.36459	8.33744	8.8001	8.79579	0.000812096	1.44E-03	2.85E-04	4.55E-05	2.58E-03	8.9E-07	2.7E-06	1.6E-06	1.4E-06	6.5E-07	2.7E-09	6.6E-08	3.4E-08	3.1E-08	9.3E-09	1.4E-07
179 UCAR	556589.4	3777433.38 556589.4, 3777433.38	9.24957	9.22729	9.76815	9.76327	0.000898017	1.59E-03	3.16E-04	5.06E-05	2.86E-03	9.9E-07	3.0E-06	1.7E-06	1.6E-06	7.2E-07	3.0E-09	7.3E-08	3.7E-08	3.4E-08	1.0E-08	1.6E-07
180 UCAR	556609.4	3777433.38 556609.4, 3777433.38	10.2246	10.2369	10.84617	10.84089	0.00099268	1.77E-03	3.51E-04	5.61E-05	3.17E-03	1.1E-06	3.3E-06	1.9E-06	1.7E-06	7.9E-07	3.3E-09	8.0E-08	4.1E-08	3.8E-08	1.1E-08	1.7E-07
181 UCAR	556629.4	3777433.38 556629.4, 3777433.38	11.21633	11.29404	12.01956	12.01446	0.001088964	1.95E-03	3.89E-04	6.22E-05	3.49E-03	1.2E-06	3.6E-06	2.1E-06	1.9E-06	8.7E-07	3.7E-09	8.9E-08	4.6E-08	4.1E-08	1.3E-08	1.9E-07
182 UCAR	556649.4	3777433.38 556649.4, 3777433.38	12.02833	12.10759	13.18106	13.17705	0.001167799	2.10E-03	4.28E-04	6.82E-05	3.76E-03	1.3E-06	3.9E-06	2.3E-06	2.1E-06	9.4E-07	4.0E-09	9.6E-08	4.9E-08	4.5E-08	1.4E-08	2.1E-07
183 UCAR	556669.4	3777433.38 556669.4, 3777433.38	12.42754	12.61047	14.15308	14.15286	0.001206558	2.18E-03	4.58E-04	7.33E-05	3.91E-03	1.4E-06	4.1E-06	2.4E-06	2.1E-06	9.8E-07	4.1E-09	9.9E-08	5.1E-08	4.6E-08	1.4E-08	2.2E-07
184 UCAR	556689.4	3777433.38 556689.4, 3777433.38	12.31927	12.44111	14.75387	14.75877	0.001196046	2.15E-03	4.77E-04	7.64E-05	3.90E-03	1.3E-06	4.1E-06	2.4E-06	2.1E-06	9.8E-07	4.1E-09	9.9E-08	5.1E-08	4.6E-08	1.4E-08	2.1E-07
185 UCAR	556709.4	3777433.38 556709.4, 3777433.38	11.75291	11.76557	14.66996	14.68002	0.00114106	2.03E-03	4.75E-04	7.60E-05	3.72E-03	1.3E-06	3.9E-06	2.3E-06	2.0E-06	9.3E-07	3.9E-09	9.4E-08	4.9E-08	4.4E-08	1.3E-08	2.0E-07
186 UCAR	556729.4	3777433.38 556729.4, 3777433.38	11.21769	11.18303	14.12095	14.13314	0.001089097	1.93E-03	4.57E-04	7.32E-05	3.55E-03	1.2E-06	3.7E-06	2.1E-06	1.9E-06	8.9E-07	3.7E-09	9.0E-08	4.6E-08	4.2E-08	1.3E-08	2.0E-07
187 UCAR	556749.4	3777433.38 556749.4, 3777433.38	10.97663	10.98946	13.42359	13.43344	0.001065693	1.90E-03	4.34E-04	6.96E-05	3.47E-03	1.2E-06	3.6E-06	2.1E-06	1.9E-06	8.7E-07	3.6E-09	8.8E-08	4.5E-08	4.1E-08	1.2E-08	1.9E-07
188 UCAR	556769.4	3777433.38 556769.4, 3777433.38	11.13678	11.19227	13.21713	13.22263	0.001081241	1.93E-03	4.28E-04	6.85E-05	3.51E-03	1.2E-06	3.7E-06	2.1E-06	1.9E-06	8.8E-07	3.7E-09	8.9E-08	4.6E-08	4.2E-08	1.3E-08	1.9E-07
189 UCAR	556789.4	3777433.38 556789.4, 3777433.38	11.36449	11.40431	13.3862	13.3889	0.001103349	1.97E-03	4.33E-04	6.93E-05	3.57E-03	1.2E-06	3.7E-06	2.2E-06	2.0E-06	8.9E-07	3.8E-09	9.1E-08	4.7E-08	4.2E-08	1.3E-08	2.0E-07
190 UCAR	556809.4	3777433.38 556809.4, 3777433.38	11.6029	11.60568	13.78781	13.79015	0.001126496	2.00E-03	4.46E-04	7.14E-05	3.65E-03	1.3E-06	3.8E-06	2.2E-06	2.0E-06	9.1E-07	3.8E-09	9.3E-08	4.8E-08	4.3E-08	1.3E-08	2.0E-07
191 UCAR	556829.4	3777433.38 556829.4, 3777433.38	11.83959	11.83871	14.18732	14.19044	0.001149475	2.04E-03	4.59E-04	7.35E-05	3.73E-03	1.3E-06	3.9E-06	2.3E-06	2.0E-06	9.3E-07	3.9E-09	9.5E-08	4.9E-08	4.4E-08	1.3E-08	2.0E-07
192 UCAR	556849.4	3777433.38 556849.4, 3777433.38	12.00627	12.02917	14.43821	14.44262	0.001165658	2.08E-03	4.67E-04	7.48E-05	3.78E-03	1.3E-06	4.0E-06	2.3E-06	2.1E-06	9.5E-07	4.0E-09	9.6E-08	4.9E-08	4.5E-08	1.4E-08	2.1E-07
193 UCAR	556869.4	3777433.38 556869.4, 3777433.38	12.12289	12.15513	14.61326	14.61949	0.00117698	2.10E-03	4.73E-04	7.57E-05	3.82E-03	1.3E-06	4.0E-06	2.3E-06	2.1E-06	9.6E-07	4.0E-09	9.7E-08	5.0E-08	4.5E-08	1.4E-08	2.1E-07
194 UCAR	556889.4	3777433.38 556889.4, 3777433.38	12.00671	12.03367	14.45548	14.46399	0.0011657	2.08E-03	4.68E-04	7.49E-05	3.79E-03	1.3E-06	4.0E-06	2.3E-06	2.1E-06	9.5E-07	4.0E-09	9.6E-08	4.9E-08	4.5E-08	1.4E-08	2.1E-07
195 UCAR	556909.4	3777433.38 556909.4, 3777433.38	11.67324	11.71187	13.93553	13.94624	0.001133325	2.02E-03	4.51E-04	7.22E-05	3.68E-03	1.3E-06	3.8E-06	2.2E-06	2.0E-06	9.2E-07	3.9E-09	9.3E-08	4.8E-08	4.4E-08	1.3E-08	2.0E-07
196 UCAR	556929.4	3777433.38 556929.4, 3777433.38	11.08398	11.15568	13.01805	13.03031	0.001076115	1.93E-03	4.21E-04	6.75E-05	3.49E-03	1.2E-06	3.6E-06	2.1E-06	1.9E-06	8.7E-07	3.7E-09	8.9E-08	4.6E-08	4.1E-08	1.3E-08	1.9E-07
197 UCAR	556949.4	3777433.38 556949.4, 3777433.38	10.25353	10.33996	11.82673	11.83948	0.000995489	1.78E-03	3.83E-04	6.13E-05	3.22E-03	1.1E-06	3.4E-06	2.0E-06	1.8E-06	8.1E-07	3.4E-09	8.2E-08	4.2E-08	3.8E-08	1.2E-08	1.8E-07
198 UCAR	556969.4	3777433.38 556969.4, 3777433.38	9.19901	9.25383	10.47632	10.48829	0.000893108	1.60E-03	3.39E-04	5.43E-05	2.88E-03	1.0E-06	3.0E-06	1.7E-06	1.6E-06	7.2E-07	3.0E-09	7.3E-08	3.8E-08	3.4E-08	1.0E-08	1.6E-07
199 UCAR	556989.4	3777433.38 556989.4, 3777433.38	8.12955	8.12583	9.22684	9.23719	0.000789277	1.40E-03	2.99E-04	4.78E-05	2.54E-03	8.8E-07	2.7E-06	1

Operational Risk - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID			Concentration [µg/m^3] at 1 g/s				Unmitigated					Residential Dose					Risk by Age Group					
			Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point	Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point												
X	Y	X, Y	(Volume Source)	Source)	Source)	Source)	(Volume Source)	Source)	Source)	Source)	Combined	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
249 UCAR	556989.4	3777453.38 556989.4, 3777453.38	7.57029	7.59306	8.512	8.52104	0.00073498	1.31E-03	2.75E-04	4.41E-05	2.37E-03	8.2E-07	2.5E-06	1.4E-06	1.3E-06	5.9E-07	2.5E-09	6.0E-08	3.1E-08	2.8E-08	8.5E-09	1.3E-07
250 UCAR	557009.4	3777453.38 557009.4, 3777453.38	6.73345	6.70875	7.5817	7.5894	0.00065733	1.16E-03	2.45E-04	3.93E-05	2.10E-03	7.3E-07	2.2E-06	1.3E-06	1.1E-06	5.2E-07	2.2E-09	5.3E-08	2.7E-08	2.5E-08	7.5E-09	1.2E-07
251 UCAR	557029.4	3777453.38 557029.4, 3777453.38	6.03494	5.9864	6.82578	6.83211	0.00058917	1.03E-03	2.21E-04	3.54E-05	1.88E-03	6.5E-07	2.0E-06	1.1E-06	1.0E-06	4.7E-07	2.0E-09	4.8E-08	2.5E-08	2.2E-08	6.7E-09	1.0E-07
252 UCAR	557049.4	3777453.38 557049.4, 3777453.38	5.49537	5.45254	6.23469	6.23982	0.00053531	9.41E-04	2.02E-04	3.23E-05	1.71E-03	5.9E-07	1.8E-06	1.0E-06	9.4E-07	4.3E-07	1.8E-09	4.3E-08	2.2E-08	2.0E-08	6.1E-09	9.4E-08
253 UCAR	557069.4	3777453.38 557069.4, 3777453.38	5.097	5.07391	5.78479	5.78902	0.00049455	8.76E-04	1.87E-04	3.00E-05	1.59E-03	5.5E-07	1.7E-06	9.6E-07	8.7E-07	4.0E-07	1.7E-09	4.0E-08	2.1E-08	1.9E-08	5.7E-09	8.7E-08
254 UCAR	557089.4	3777453.38 557089.4, 3777453.38	4.78319	4.77697	5.4213	5.42488	0.00046388	8.25E-04	1.75E-04	2.81E-05	1.49E-03	5.2E-07	1.6E-06	9.0E-07	8.2E-07	3.7E-07	1.6E-09	3.8E-08	2.0E-08	1.8E-08	5.4E-09	8.2E-08
255 UCAR	557109.4	3777453.38 557109.4, 3777453.38	4.53002	4.52983	5.12886	5.13199	0.00043908	7.82E-04	1.66E-04	2.66E-05	1.41E-03	4.9E-07	1.5E-06	8.6E-07	7.8E-07	3.5E-07	1.5E-09	3.6E-08	1.8E-08	1.7E-08	5.1E-09	7.8E-08
256 UCAR	557129.4	3777453.38 557129.4, 3777453.38	4.30089	4.29803	4.86748	4.87029	0.00041756	7.42E-04	1.58E-04	2.52E-05	1.34E-03	4.6E-07	1.4E-06	8.1E-07	7.4E-07	3.4E-07	1.4E-09	3.4E-08	1.8E-08	1.6E-08	4.8E-09	7.4E-08
257 UCAR	557149.4	3777453.38 557149.4, 3777453.38	4.10537	4.09564	4.64775	4.65032	0.00039858	7.07E-04	1.50E-04	2.41E-05	1.28E-03	4.4E-07	1.3E-06	7.7E-07	7.0E-07	3.2E-07	1.3E-09	3.2E-08	1.7E-08	1.5E-08	4.6E-09	7.0E-08
258 UCAR	557169.4	3777453.38 557169.4, 3777453.38	3.90902	3.89333	4.42332	4.4257	0.00037951	6.72E-04	1.43E-04	2.29E-05	1.22E-03	4.2E-07	1.3E-06	7.4E-07	6.7E-07	3.0E-07	1.3E-09	3.1E-08	1.6E-08	1.4E-08	4.4E-09	6.7E-08
259 UCAR	557189.4	3777453.38 557189.4, 3777453.38	3.74961	3.73008	4.23826	4.24048	0.00036404	6.44E-04	1.37E-04	2.20E-05	1.17E-03	4.0E-07	1.2E-06	7.1E-07	6.4E-07	2.9E-07	1.2E-09	3.0E-08	1.5E-08	1.4E-08	4.2E-09	6.4E-08
260 UCAR	557209.4	3777453.38 557209.4, 3777453.38	3.61112	3.59088	4.07179	4.07389	0.00035059	6.20E-04	1.32E-04	2.11E-05	1.12E-03	3.9E-07	1.2E-06	6.8E-07	6.2E-07	2.8E-07	1.2E-09	2.9E-08	1.5E-08	1.3E-08	4.0E-09	6.2E-08
261 UCAR	557229.4	3777453.38 557229.4, 3777453.38	3.47069	3.45297	3.8969	3.89887	0.00033696	5.96E-04	1.26E-04	2.02E-05	1.08E-03	3.7E-07	1.1E-06	6.5E-07	5.9E-07	2.7E-07	1.1E-09	2.7E-08	1.4E-08	1.3E-08	3.9E-09	5.9E-08
262 UCAR	557249.4	3777453.38 557249.4, 3777453.38	3.35643	3.34278	3.74949	3.75135	0.00032587	5.77E-04	1.21E-04	1.94E-05	1.04E-03	3.6E-07	1.1E-06	6.3E-07	5.7E-07	2.6E-07	1.1E-09	2.6E-08	1.4E-08	1.2E-08	3.7E-09	5.7E-08
263 UCAR	557269.4	3777453.38 557269.4, 3777453.38	3.23888	3.23048	3.59607	3.59782	0.00031454	5.58E-04	1.16E-04	1.86E-05	1.01E-03	3.5E-07	1.1E-06	6.1E-07	5.5E-07	2.5E-07	1.1E-09	2.6E-08	1.3E-08	1.2E-08	3.6E-09	5.5E-08
264 UCAR	557289.4	3777453.38 557289.4, 3777453.38	3.12651	3.12337	3.44874	3.4504	0.00030345	5.39E-04	1.12E-04	1.79E-05	9.72E-04	3.4E-07	1.0E-06	5.9E-07	5.3E-07	2.4E-07	1.0E-09	2.5E-08	1.3E-08	1.2E-08	3.5E-09	5.3E-08
265 UCAR	557309.4	3777453.38 557309.4, 3777453.38	3.02485	3.02628	3.31523	3.31679	0.00029375	5.22E-04	1.07E-04	1.72E-05	9.40E-04	3.3E-07	9.8E-07	5.7E-07	5.2E-07	2.4E-07	9.9E-10	2.4E-08	1.2E-08	1.1E-08	3.4E-09	5.2E-08
266 UCAR	557329.4	3777453.38 557329.4, 3777453.38	2.92002	2.92513	3.18031	3.18179	0.00028349	5.05E-04	1.03E-04	1.65E-05	9.08E-04	3.1E-07	9.5E-07	5.5E-07	5.0E-07	2.3E-07	9.5E-10	2.3E-08	1.2E-08	1.1E-08	3.3E-09	5.0E-08
267 UCAR	557349.4	3777453.38 557349.4, 3777453.38	2.81909	2.82675	3.05262	3.05401	0.00027369	4.88E-04	9.88E-05	1.58E-05	8.76E-04	3.0E-07	9.2E-07	5.3E-07	4.8E-07	2.2E-07	9.2E-10	2.2E-08	1.1E-08	1.0E-08	3.1E-09	4.8E-08
268 UCAR	557369.4	3777453.38 557369.4, 3777453.38	2.70925	2.71843	2.91792	2.91923	0.00026303	4.69E-04	9.44E-05	1.51E-05	8.42E-04	2.9E-07	8.8E-07	5.1E-07	4.6E-07	2.1E-07	8.8E-10	2.1E-08	1.1E-08	1.0E-08	3.0E-09	4.6E-08
269 UCAR	557389.4	3777453.38 557389.4, 3777453.38	2.6138	2.62348	2.80218	2.80341	0.00025357	4.53E-04	9.07E-05	1.45E-05	8.12E-04	2.8E-07	8.5E-07	4.9E-07	4.5E-07	2.0E-07	8.5E-10	2.1E-08	1.1E-08	9.6E-09	2.9E-09	4.5E-08
270 UCAR	557409.4	3777453.38 557409.4, 3777453.38	2.5289	2.53829	2.70058	2.70175	0.00024552	4.38E-04	8.74E-05	1.40E-05	7.85E-04	2.7E-07	8.2E-07	4.7E-07	4.3E-07	2.0E-07	8.2E-10	2.0E-08	1.0E-08	9.3E-09	2.8E-09	4.3E-08
271 UCAR	557429.4	3777453.38 557429.4, 3777453.38	2.43475	2.4433	2.59102	2.59212	0.00023638	4.22E-04	8.39E-05	1.34E-05	7.55E-04	2.6E-07	7.9E-07	4.6E-07	4.1E-07	1.9E-07	7.9E-10	1.9E-08	9.9E-09	8.9E-09	2.7E-09	4.2E-08
272 UCAR	557449.4	3777453.38 557449.4, 3777453.38	2.34323	2.35053	2.48628	2.48731	0.00022798	4.06E-04	8.05E-05	1.29E-05	7.27E-04	2.5E-07	7.6E-07	4.4E-07	4.0E-07	1.8E-07	7.6E-10	1.8E-08	9.5E-09	8.6E-09	2.6E-09	4.0E-08
273 UCAR	557469.4	3777453.38 557469.4, 3777453.38	2.25211	2.25791	2.38359	2.38457	0.00021865	3.90E-04	7.71E-05	1.23E-05	6.98E-04	2.4E-07	7.3E-07	4.2E-07	3.8E-07	1.7E-07	7.3E-10	1.8E-08	9.1E-09	8.3E-09	2.5E-09	3.8E-08
274 UCAR	557489.4	3777453.38 557489.4, 3777453.38	2.16168	2.16585	2.28299	2.2839	0.00020987	3.74E-04	7.39E-05	1.18E-05	6.69E-04	2.3E-07	7.0E-07	4.1E-07	3.7E-07	1.7E-07	7.0E-10	1.7E-08	8.7E-09	7.9E-09	2.4E-09	3.7E-08
275 UCAR	556509.4	3777473.38 556509.4, 3777473.38	6.03802	6.01897	6.31057	6.30803	0.00058216	1.04E-03	2.04E-04	3.27E-05	1.86E-03	6.4E-07	1.9E-06	1.1E-06	1.0E-06	4.7E-07	2.0E-09	4.7E-08	2.4E-08	2.2E-08	6.7E-09	1.0E-07
276 UCAR	556529.4	3777473.38 556529.4, 3777473.38	6.52967	6.50391	6.84708	6.84429	0.00063949	1.12E-03	2.22E-04	3.54E-05	2.01E-03	7.0E-07	2.1E-06	1.2E-06	1.1E-06	5.0E-07	2.1E-09	5.1E-08	2.6E-08	2.4E-08	7.2E-09	1.1E-07
277 UCAR	556549.4	3777473.38 556549.4, 3777473.38	7.11195	7.09067	7.47202	7.46894	0.00069081	1.22E-03	2.42E-04	3.87E-05	2.19E-03	7.6E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.6E-08	2.9E-08	2.6E-08	7.9E-09	1.2E-07
278 UCAR	556569.4	3777473.38 556569.4, 3777473.38	7.79171	7.79132	8.20166	8.19832	0.00075647	1.34E-03	2.65E-04	4.25E-05	2.41E-03	8.3E-07	2.5E-06	1.5E-06	1.3E-06	6.0E-07	2.5E-09	6.1E-08	3.1E-08	2.9E-08	8.6E-09	1.3E-07
279 UCAR	556589.4	3777473.38 556589.4, 3777473.38	8.46997	8.50953	8.95658	8.95331	0.00082327	1.47E-03	2.90E-04	4.64E-05	2.63E-03	9.1E-07	2.7E-06	1.6E-06	1.4E-06	6.6E-07	2.8E-09	6.7E-08	3.4E-08	3.1E-08	9.4E-09	1.4E-07
280 UCAR	556609.4	3777473.38 556609.4, 3777473.38	9.09298	9.18382	9.73029	9.72766	0.00088214	1.59E-03	3.15E-04	5.04E-05	2.83E-03	9.8E-07	3.0E-06	1.7E-06	1.6E-06	7.1E-07	3.0E-09	7.2E-08	3.7E-08	3.4E-08	1.0E-08	1.6E-07
281 UCAR	556629.4	3777473.38 556629.4, 3777473.38	9.53989	9.6723	10.44935	10.44829	0.00092603	1.67E-03	3.38E-04	5.41E-05	2.99E-03	1.0E-06	3.1E-06	1.8E-06	1.6E-06	7.5E-07	3.1E-09	7.6E-08	3.9E-08	3.5E-08	1.1E-08	1.6E-07
282 UCAR	556649.4	3777473.38 556649.4, 3777473.38	9.67079	9.80093	10.97663	10.97819	0.00093812	1.69E-03	3.55E-04	5.68E-05	3.04E-03	1.1E-06	3.2E-06	1.8E-06	1.7E-06	7.6E-07	3.2E-09	7.7E-08	4.0E-08	3.6E-08	1.1E-08	1.7E-07
283 UCAR	556669.4	3777473.38 556669.4, 3777473.38	9.41498	9.48334	11.13374	11.13855	0.00091407	1.64E-03	3.60E-04	5.77E-05	2.97E-03	1.0E-06	3.1E-06	1.8E-06	1.6E-06	7.4E-07	3.1E-09	7.5E-08	3.9E-08	3.5E-08	1.1E-08	1.6E-07
284 UCAR	556689.4	3777473.38 556689.4, 3777473.38	8.95174	8.94134	10.92144	10.9289	0.00086910	1.54E-03	3.53E-04	5.66E-05	2.82E-03	9.8E-07	2.9E-06	1.7E-06	1.5E-06	7.1E-07	3.0E-09	7.2E-08	3.7E-08	3.3E-08	1.0E-08	1.6E-07
285 UCAR	556709.4	3777473.38 556709.4, 3777473.38	8.56266	8.52572	10.49364	10.50184	0.00083132	1.47E-03	3.40E-04	5.44E-05	2.70E-03	9.3E-07	2.8E-06	1.6E-06	1.5E-06	6.7E-07	2.8E-09	6.8E-08	3.5E-08	3.2E-08	9.7E-09	1.5E-07
286 UCAR	556729.4	3777473.38 556729.4, 3777473.38	8.42353	8.42335	10.08419	10.09087	0.00081819	1.45E-03	3.26E-04	5.23E-05	2.65E-03	9.2E-07	2.8E-06	1.6E-06	1.5E-06	6.6E-07	2.8E-09	6.7E-08	3.5E-08	3.1E-08	9.5E-09	1.5E-07
287 UCAR	556749.4	3777473.38 556749.4, 3777473.38	8.48044	8.5227	9.85407	9.85811	0.00082344	1.47E-03	3.19E-04	5.10E-05	2.66E-03	9.2E-07	2.8E-06	1.6E-06	1.5E-06	6.7E-07	2.8E-09	6.8E-08	3.5E-08	3.2E-08	9.6E-09	1.5E-07
288 UCAR	556769.4	3777473.38 556769.4, 3777473.38	8.65124	8.69111	9.93423	9.93632	0.00083927	1.50E-03	3.21E-04	5.15E-05	2.71E-03	9.4E-07	2.8E-06	1.6E-06	1.5E-06	6.8E-07	2.9E-09	6.9E-08	3.5E-08	3.2E-08	9.7E-09	1.5E-07
289 UCAR	556789.4	3777473.38 556789.4, 3777473.38	8.79054	8.80049	10.14254	10.14404	0.00085345	1.52E-03	3.28E-04	5.25E-05	2.75E-03	9.5E-07	2.9E-06	1.7E-06	1.5E-06	6.9E-07	2.9E-09	7.0E-08	3.6E-08	3.3E-08	9.9E-09	1.5E-07
290 UCAR	556809.4	3777473.38 556809.4, 3777473.38	8.93772	8.92637	10.40544	10.40714	0.00086774	1.54E-03	3.37E-04	5.39E-05	2.80E-03	9.7E-07	2.9E-06	1.7E-06	1.5E-06	7.0E-07	2.9E-09	7.1E-08	3.7E-08	3.3E-08	1.0E-08	1.5E-07
291 UCAR	556829.4	3777473.38 556829.4, 3777473.38	9.10669	9.1007	10.6561	10.65823	0.00088414	1.57E-03	3.45E-04	5.52E-05	2.85E-03	9.9E-07	3.0E-06	1.7E-06	1.6E-06	7.1E-07	3.0E-09	7.2E-08	3.7E-08	3.4E-08	1.0E-08	1.6E-07
292 UCAR	556849.4	3777473.38 556849.4, 3777473.38	9.27052	9.2838	10.86754	10.87031	0.00090005	1.60E-03	3.52E-04	5.63E-05	2.91E-03	1.0E-06	3.0E-06	1.8E-06	1.6E-06	7.3E-07	3.1E-09	7.4E-08	3.8E-08	3.4E-08	1.0E-08	1.6E-07
293 UCAR	556869.4	3777473.38 556869.4, 3777473.38	9.36654	9.38743	10.9968	11.00054	0.00090973	1.62E-03	3.56E-04	5.70E-05	2.94E-03	1.0E-06	3.1E-06	1.8E-06	1.6E-06	7.4E-07	3.1E-09	7.5E-08	3.8E-08	3.5E-08	1.1E-08	1.6E-07
294 UCAR	556889.4	3777473.38 556889.4, 3777473.38	9.26863	9.28244	10.88121	10.88618	0.00089867	1.60E-03	3.52E-04	5.64E-05	2.91E-03	1.0E-06	3.0E-06	1.8E-06	1.6E-06	7.3E-07	3.1E-09	7.4E-08	3.8E-08	3.4E-08	1.0E-08	1.6E-07
295 UCAR	556909.4	3777473.38 556909.4, 3777473.38	9.10908	9.12058	10.6569	10.66311	0.00088437	1.57E-03	3.45E-04	5.52E-05	2.86E-03	9.9E-07	3.0E-06	1.7E-06	1.6E-06	7.2E-07	3.0E-09	7.3E-08	3.7E-08	3.4E-08	1.0E-08	1.6E-07
296 UCAR	556929.4	3777473.38 556929.4, 3777473.38	8.80429	8.83442	10.19573	10.20301	0.00085478	1.52E-03	3.30E-04	5.28E-05	2.76E-03	9.6E-07	2.9E-06	1.7E-06	1.5E-06	6.9E-07	2.9E-09	7.0E-08	3.6E-08	3.3E-08	9.9E-09	1.5E-07
297 UCAR	556949.4	3777473.38 556949.4, 3777473.38	8.3658	8.42165	9.5471	9.5551	0.00081214	1.45E-03	3.09E-04	4.95E-05	2.62E-03	9.1E-07	2.7E-06	1.6E-06	1.4E-06	6.6E-07	2.8E-09	6.7E-08	3.4E-08	3.1E-08	9.4E-09	1.4E-07
298 UCAR	556969.4	3777473.38 556969.4, 3777473.38	7.7725	7.83572	8.74755	8.75574	0.00075412	1.35E-03	2.83E-04	4.53E-05	2.44E-03	8.4E-07	2.5E-06	1.5E-06	1.3E-06	6.1E-07	2.6E-09	6.2E-08	3.2E-08	2.9E-08	8.7E-09	1.3E-07
299 UCAR	556989.4	3777473.38 556989.4, 3777473.38	7.07102	7.11107	7.8939	7.9017	0.00068507	1.23E-03	2.55E-04	4.09E-05	2.21E-03	7.7E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.6E-08	2.9E-08	2.6E-08	7.9E-09	1.2E-07
300 UCAR	557009.4	3777473.38 557009.4, 3777473.38	6.35376	6.35209	7.08825	7.09521	0.00061687	1.10E-03	2.29E-04	3.67E-05	1.98E-03	6.9E-07	2.1E-06	1.2E-06	1.1E-06	5.0E-07	2.1E-09	5.0E-08	2.6E-08	2.3E-08	7.1E-09	1.1E-07
301 UCAR	557029.4	3777473.38 557029.4, 3777473.38	5.69213	5.65618	6.37532	6.38121	0.00055263	9.76E-04	2.06E-04	3.30E-05	1.77E-03	6.1E-07	1.8E-06	1.1E-06	9.7E-07	4.4E-07	1.9E-09	4.5E-08	2.3E-08	2.1E-08	6.3E-09	9.7E-08
302 UCAR	557049.4	3777473.38 557049.4, 3777473.38	5.14997	5.10416	5.79283	5.79768	0.00049997	8.81E-04	1.87E-04	3.00E-05	1.60E-03	5.5E-07	1.7E-06	9.7E-07	8.8E-07	4.0E-07	1.7E-09	4.1E-08	2.1E-08	1.9E-08	5.7E-09	8.8E-08
303 UCAR	557069.4	3777473.38 557069.4, 3777473.38	4.74628	4.71149	5.34877	5.35276	0.00046080	8.13E-04	1.73E-04	2.77E-05	1.47E-03	5.1E-07	1.5E-06	8.9E-07	8.1E-07	3.7E-07	1.5E-09	3.7E-08	1.9E-08	1.7E-08	5.3E-09	8.1E-08
304 UCAR	557089.4	3777473.38 557089.4, 3777473.38	4.43052	4.41421	4.98797	4.9913	0.00043014	7.62E-04	1.61E-04	2.58E-05	1.38E-03	4.8E-07	1.4E-06	8.3E-07	7.6E-07	3.5E-07	1.4E-09	3.5E-08	1.8E-08	1.6E-08	4.9E-09	7.6E-08
305 UCAR	557109.4	3777473.38 557109.4, 3777473.38	4.18949	4.18621	4.70834	4.7112	0.00040674	7.23E-04	1.52E-04	2.44E-05	1.31E-03	4.5E-07	1.4E-06	7.9E-07	7.2E-07	3.3E-07	1.4E-09	3.3E-08	1.7E-08	1.5E-08	4.7E-09	7.2E-08
306 UCAR	557129.4	3777473.38 557129.4, 3777473.38	3.9751	3.97616	4.46105	4.46357	0.00038592	6.86E-04	1.44E-04	2.31E-05	1.24E-03	4.3E-07	1.3E-06	7.5E-07	6.8E-07	3.1E-07	1.3E-09	3.1E-08	1.6E-08	1.5E-08	4.4E-09	6.8E-08
307 UCAR	557149.4	3777473.38 557149.4, 3777473.38	3.80022	3.79821	4.26511	4.26739	0.00036895	6.56E-04	1.38E-04	2.21E-05	1.18E-03	4.1E-07	1.2E-06	7.2E-07	6.5E-07	3.0E-07	1.2E-09	3.0E-08	1.5E-08	1.4E-08	4.3E-09	6.5E-08
308 UCAR	557169.4	3777473.38 557169.4, 3777473.38	3.62111	3.6135	4.06503	4.06713	0.00035156	6.24E-04	1.32E-04	2.11E-05	1.13E-03	3.9E-07	1.2E-06	6.8E-07	6.2E-07	2.8E-07	1.2E-09	2.9E-08	1.5E-08	1.3E-08	4.0E-09	6.2E-08
309 UCAR	557189.4	3777473.38 557189.4, 3777473.38	3.47129	3.45788	3.89869	3.90065	0.00033709	5.97E-04	1.26E-04	2.02E-05	1.08E-03	3.7E-07	1.1E-06	6.5E-07	5.9E-07	2.7E-07	1.1E-09	2.7E-08	1.4E-08	1.3E-08	3.9E-09	5.9E-08
310 UCAR	557209.4	3777473.38 557209.4, 3777473.38	3.33849	3.32116	3.74847	3.7503	0.00032425	5.73E-04	1.21E-04	1.94E-05	1.04E-03	3.6E-07	1.1E-06	6.3E-07	5.7E-07	2.6E-07	1.1E-09	2.6E-08	1.4E-08	1.2E-08	3.7E-09	5.7E-08
311 UCAR	557229.4	3777473.38 557229.4, 3777473.38	3.21283	3.19432	3.60128	3.60301	0.00031925	5.51E-04	1.17E-04	1.87E-05	9.98E-04	3.5E-07	1.0E-06	6.0E-07	5.5E-07	2.5E-07	1.0E-09	2.5E-08	1.3E-08	1.2E-08	3.6E-09	5.5E-08
312 UCAR	557249.4	3777473.38 557249.4, 3777473.38	3.10812	3.09058	3.47412	3.47575	0.00030759	5.33E-04	1.12E-04	1.80E-05	9.66E-04	3.3E-07	1.0E-06	5.8E-07	5.3E-07	2.4E-07	1.0E-09	2.5E-08	1.3E-08	1.1E-08	3.5E-09	5.3E-08
313 UCAR	557269.4	3777473.38 557269.4, 3777473.38	3.0022	2.98774	3.34139	3.34293	0.00029176	5.16E-04	1.08E-04	1.73E-05	9.33E-04	3.2E-07	9.7E-07	5.6E-07	5.1E-07	2.3E-07	9.8E-10	2.4E-08	1.2E-08	1.1E-08	3.3E-09	5.1E-08
314 UCAR	557289.4	3777473.38 557289.4, 3777473.38	2.905	2.89466	3.21661	3.21807	0.00028239	5.00E-04	1.04E-04	1.67E-05	9.02E-04	3.1E-07	9.4E-07	5.5E-07	4.9E-07	2.3E-07	9.5E-10	2.3E-08	1.2E-08	1.1E-08	3.2E-09	5.0E-08
315 UCAR	557309.4	3777473.38 557309.4, 3777473.38	2.8167	2.81079	3.10133	3.10273	0.00027346	4.85E-04	1.00E-04	1.61E-05	8.75E-04	3.0E-07	9.1E-07	5.3E-07	4.8E-07	2.2E-07	9.2E-10	2.2E-08	1.1E-08	1.0E-08	3.1E-09	4.8E-08
316 UCAR	557329.4	3777473.38 557329.4, 3777473.38	2.73212	2.73045	2.99065	2.99198	0.00026525	4.71E-04	9.68E-05	1.55E-05	8.49E-04	2.9E-07	8.9E-07	5.1E-07	4.7E-07	2.1E-07	8.9E-10	2.2E-08	1.1E-08	1.0E-08	3.0E-09	4.7E-08
317 UCAR	557349.4	3777473.38 557349.4, 3777473.38	2.64525	2.64729	2.87859	2.87985	0.00025682	4.57E-04	9.32E-05	1.49E-05	8.22E-04	2.8E-07	8.6E-07	5.0E-07	4.5E-07	2.1E-07	8.6E-10	2.1E-08	1.1E-08	9.7E-09	2.9E-09	4.5E-08
318 UCAR	557369.4	3777473.38 557369.4, 3777473.38	2.56148	2.5664	2.77194	2.77313	0.00024868	4.43E-04	8.97E-05	1.44E-05	7.96E-04	2.8E-07	8.3E-07	4.8E-07	4.4E-07	2.0E-07	8.4E-10	2.0E-08	1.0E-08	9.4E-09	2.9E-09	4.4E-08
319 UCAR	557389.4	3777473.38 557389.4, 3777473.38	2.47528	2.48222	2.66475	2.66588	0.00024039	4.28E-04	8.62E-05	1.38E-05	7.69E-04	2.7E-07	8.0E-07	4.7E-07	4.2E-07	1.9E-07	8.1E-10	2.0E-08	1.0E-08	9.1E-09	2.8E-09	4.2E-08
320 UCAR	557409.4	3777473.38 557409.4, 3777473.38	2.39754	2.40563	2.56926	2.57033	0.00023271	4.15E-04	8.31E-05	1.33E-05	7.44E-04	2.6E-07	7.8E-07	4.5E-07	4.1E-07	1.9E-07	7.8E-10	1.9E-08	9.7E-09	8.8E-09	2.7E-09	4.1E-08
321 UCAR	557429.4	3777473.38 557429.4, 3777473.38	2.31406	2.32258	2.46956	2.47057	0.00022466	4.01E-04	7.99E-05	1.28E-05	7.18E-04	2.5E-07	7.5E-07	4.3E-07	3.9E-07	1.8E-07	7.5E-10	1.8E-08	9.4E-09	8.5E-09	2.6E-09	3.9E-08
322 UCAR	557449.4	3777473.38 557449.4, 3777473.38	2.24279	2.25111	2.38521	2.38617	0.00021717	3.89E-04	7.72E-05	1.24E-05	6.96E-04	2.4E-07	7.3E-07	4.2E-07	3.8E-07	1.7E-07	7.3E-10	1.8E-08	9.1E-09	8.2E-09	2.5E-09	3.8E-08
323 UCAR	557469.4	3777473.38 557469.4, 3777473.38	2.16325	2.17093	2.29356	2.29447	0.00020924	3.75E-04	7.42E-05	1.19E-05	6.71E-04	2.3E-07	7.0E-07	4.1

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s				Unmitigated					Residential Dose					Risk by Age Group					
				Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point	Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point												
X	Y	X, Y		(Volume Source)	Source)	Source)	Source)	(Volume Source)	Source)	Source)	Source)	Combined	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
373 UCAR	557469.4	3777493.38	557469.4, 3777493.38	2.06727	2.07482	2.19735	2.19819	0.000200706	3.58E-04	7.11E-05	1.14E-05	6.41E-04	2.2E-07	6.7E-07	3.9E-07	3.5E-07	1.6E-07	6.7E-10	1.6E-08	8.4E-09	7.6E-09	2.3E-09	3.5E-08
374 UCAR	557489.4	3777493.38	557489.4, 3777493.38	2.00011	2.00753	2.1192	2.12	0.000194186	3.46E-04	6.86E-05	1.10E-05	6.20E-04	2.1E-07	6.5E-07	3.8E-07	3.4E-07	1.6E-07	6.5E-10	1.6E-08	8.1E-09	7.3E-09	2.2E-09	3.4E-08
375 UCAR	556509.4	3777513.38	556509.4, 3777513.38	5.68952	5.66923	5.95565	5.95354	0.000552381	9.79E-04	1.93E-04	3.08E-05	1.75E-03	6.1E-07	1.8E-06	1.1E-06	9.6E-07	4.4E-07	1.8E-09	4.5E-08	2.3E-08	2.1E-08	6.3E-09	9.6E-08
376 UCAR	556529.4	3777513.38	556529.4, 3777513.38	6.14947	6.14381	6.43827	6.43603	0.000597036	1.06E-03	2.08E-04	3.33E-05	1.90E-03	6.6E-07	2.0E-06	1.1E-06	1.0E-06	4.8E-07	2.0E-09	4.8E-08	2.5E-08	2.2E-08	6.8E-09	1.0E-07
377 UCAR	556549.4	3777513.38	556549.4, 3777513.38	6.61726	6.6373	6.93844	6.93623	0.000642453	1.15E-03	2.25E-04	3.59E-05	2.05E-03	7.1E-07	2.1E-06	1.2E-06	1.1E-06	5.1E-07	2.2E-09	5.2E-08	2.7E-08	2.4E-08	7.4E-09	1.1E-07
378 UCAR	556569.4	3777513.38	556569.4, 3777513.38	7.13815	7.19176	7.53316	7.5312	0.000693025	1.24E-03	2.44E-04	3.90E-05	2.22E-03	7.7E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.6E-08	2.9E-08	2.6E-08	8.0E-09	1.2E-07
379 UCAR	556589.4	3777513.38	556589.4, 3777513.38	7.5149	7.60363	8.03871	8.03756	0.000729602	1.31E-03	2.60E-04	4.16E-05	2.34E-03	8.1E-07	2.4E-06	1.4E-06	1.3E-06	5.9E-07	2.5E-09	5.9E-08	3.1E-08	2.8E-08	8.4E-09	1.3E-07
380 UCAR	556609.4	3777513.38	556609.4, 3777513.38	7.69305	7.80059	8.41924	8.41952	0.000746898	1.35E-03	2.72E-04	4.36E-05	2.41E-03	8.3E-07	2.5E-06	1.5E-06	1.3E-06	6.0E-07	2.5E-09	6.1E-08	3.1E-08	2.9E-08	8.6E-09	1.3E-07
381 UCAR	556629.4	3777513.38	556629.4, 3777513.38	7.70098	7.79118	8.70651	8.70869	0.000747668	1.34E-03	2.82E-04	4.51E-05	2.42E-03	8.4E-07	2.5E-06	1.5E-06	1.3E-06	6.1E-07	2.5E-09	6.1E-08	3.2E-08	2.9E-08	8.7E-09	1.3E-07
382 UCAR	556649.4	3777513.38	556649.4, 3777513.38	7.44694	7.48204	8.7157	8.7199	0.000723004	1.29E-03	2.82E-04	4.52E-05	2.34E-03	8.1E-07	2.4E-06	1.4E-06	1.3E-06	5.9E-07	2.5E-09	5.9E-08	3.1E-08	2.8E-08	8.4E-09	1.3E-07
383 UCAR	556669.4	3777513.38	556669.4, 3777513.38	7.08932	7.06709	8.50431	8.50993	0.000688284	1.22E-03	2.75E-04	4.41E-05	2.23E-03	7.7E-07	2.3E-06	1.3E-06	1.2E-06	5.6E-07	2.3E-09	5.7E-08	2.9E-08	2.6E-08	8.0E-09	1.2E-07
384 UCAR	556689.4	3777513.38	556689.4, 3777513.38	6.77779	6.74218	8.13992	8.14571	0.000658038	1.16E-03	2.63E-04	4.22E-05	2.13E-03	7.4E-07	2.2E-06	1.3E-06	1.2E-06	5.3E-07	2.2E-09	5.4E-08	2.8E-08	2.5E-08	7.6E-09	1.2E-07
385 UCAR	556709.4	3777513.38	556709.4, 3777513.38	6.66742	6.66283	7.84251	7.84724	0.000647323	1.15E-03	2.54E-04	4.06E-05	2.09E-03	7.2E-07	2.2E-06	1.3E-06	1.1E-06	5.2E-07	2.2E-09	5.3E-08	2.7E-08	2.5E-08	7.5E-09	1.1E-07
386 UCAR	556729.4	3777513.38	556729.4, 3777513.38	6.73139	6.76164	7.71023	7.71328	0.000653533	1.17E-03	2.50E-04	3.99E-05	2.11E-03	7.3E-07	2.2E-06	1.3E-06	1.2E-06	5.3E-07	2.2E-09	5.4E-08	2.8E-08	2.5E-08	7.6E-09	1.2E-07
387 UCAR	556749.4	3777513.38	556749.4, 3777513.38	6.83104	6.86816	7.70476	7.70644	0.000663208	1.19E-03	2.49E-04	3.99E-05	2.14E-03	7.4E-07	2.2E-06	1.3E-06	1.2E-06	5.4E-07	2.2E-09	5.4E-08	2.8E-08	2.5E-08	7.7E-09	1.2E-07
388 UCAR	556769.4	3777513.38	556769.4, 3777513.38	6.95488	6.97127	7.85421	7.85529	0.000675231	1.20E-03	2.54E-04	4.07E-05	2.17E-03	7.5E-07	2.3E-06	1.3E-06	1.2E-06	5.4E-07	2.3E-09	5.5E-08	2.8E-08	2.6E-08	7.8E-09	1.2E-07
389 UCAR	556789.4	3777513.38	556789.4, 3777513.38	7.03765	7.0312	8.01304	8.01413	0.000683267	1.21E-03	2.59E-04	4.15E-05	2.20E-03	7.6E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.6E-08	2.9E-08	2.6E-08	7.9E-09	1.2E-07
390 UCAR	556809.4	3777513.38	556809.4, 3777513.38	7.108	7.09339	8.14542	8.14673	0.000690097	1.22E-03	2.64E-04	4.22E-05	2.22E-03	7.7E-07	2.3E-06	1.3E-06	1.2E-06	5.6E-07	2.3E-09	5.6E-08	2.9E-08	2.6E-08	8.0E-09	1.2E-07
391 UCAR	556829.4	3777513.38	556829.4, 3777513.38	7.2369	7.2305	8.31498	8.31651	0.000702612	1.25E-03	2.69E-04	4.31E-05	2.26E-03	7.8E-07	2.4E-06	1.4E-06	1.2E-06	5.7E-07	2.4E-09	5.7E-08	3.0E-08	2.7E-08	8.1E-09	1.2E-07
392 UCAR	556849.4	3777513.38	556849.4, 3777513.38	7.34592	7.35564	8.44155	8.44344	0.000713196	1.27E-03	2.73E-04	4.37E-05	2.30E-03	8.0E-07	2.4E-06	1.4E-06	1.3E-06	5.8E-07	2.4E-09	5.8E-08	3.0E-08	2.7E-08	8.3E-09	1.3E-07
393 UCAR	556869.4	3777513.38	556869.4, 3777513.38	7.42776	7.44383	8.54322	8.54567	0.000721142	1.28E-03	2.76E-04	4.42E-05	2.33E-03	8.1E-07	2.4E-06	1.4E-06	1.3E-06	5.8E-07	2.4E-09	5.9E-08	3.0E-08	2.8E-08	8.3E-09	1.3E-07
394 UCAR	556889.4	3777513.38	556889.4, 3777513.38	7.41213	7.42098	8.53602	8.53919	0.000719625	1.28E-03	2.76E-04	4.42E-05	2.32E-03	8.0E-07	2.4E-06	1.4E-06	1.3E-06	5.8E-07	2.4E-09	5.9E-08	3.0E-08	2.7E-08	8.3E-09	1.3E-07
395 UCAR	556909.4	3777513.38	556909.4, 3777513.38	7.29873	7.3004	8.39716	8.40106	0.000708615	1.26E-03	2.72E-04	4.35E-05	2.28E-03	7.9E-07	2.4E-06	1.4E-06	1.3E-06	5.7E-07	2.4E-09	5.8E-08	3.0E-08	2.7E-08	8.2E-09	1.3E-07
396 UCAR	556929.4	3777513.38	556929.4, 3777513.38	7.14217	7.15016	8.17209	8.17667	0.000693415	1.23E-03	2.64E-04	4.23E-05	2.23E-03	7.7E-07	2.3E-06	1.4E-06	1.2E-06	5.6E-07	2.3E-09	5.7E-08	2.9E-08	2.6E-08	8.0E-09	1.2E-07
397 UCAR	556949.4	3777513.38	556949.4, 3777513.38	6.90438	6.93115	7.81666	7.82181	0.000670328	1.20E-03	2.53E-04	4.05E-05	2.16E-03	7.5E-07	2.3E-06	1.3E-06	1.2E-06	5.4E-07	2.3E-09	5.5E-08	2.8E-08	2.6E-08	7.8E-09	1.2E-07
398 UCAR	556969.4	3777513.38	556969.4, 3777513.38	6.5602	6.60487	7.33174	7.33727	0.000636913	1.14E-03	2.37E-04	3.80E-05	2.05E-03	7.1E-07	2.1E-06	1.2E-06	1.1E-06	5.1E-07	2.2E-09	5.2E-08	2.7E-08	2.4E-08	7.4E-09	1.1E-07
399 UCAR	556989.4	3777513.38	556989.4, 3777513.38	6.12962	6.17748	6.77773	6.78336	0.000595109	1.07E-03	2.19E-04	3.51E-05	1.92E-03	6.6E-07	2.0E-06	1.2E-06	1.1E-06	4.8E-07	2.0E-09	4.9E-08	2.5E-08	2.3E-08	6.9E-09	1.1E-07
400 UCAR	557009.4	3777513.38	557009.4, 3777513.38	5.64445	5.67511	6.20934	6.21476	0.000548005	9.80E-04	2.01E-04	3.22E-05	1.76E-03	6.1E-07	1.8E-06	1.1E-06	9.7E-07	4.4E-07	1.9E-09	4.5E-08	2.3E-08	2.1E-08	6.3E-09	9.7E-08
401 UCAR	557029.4	3777513.38	557029.4, 3777513.38	5.12015	5.12033	5.63667	5.64159	0.000497102	8.84E-04	1.82E-04	2.92E-05	1.59E-03	5.5E-07	1.7E-06	9.6E-07	8.7E-07	4.0E-07	1.7E-09	4.0E-08	2.1E-08	1.9E-08	5.7E-09	8.7E-08
402 UCAR	557049.4	3777513.38	557049.4, 3777513.38	4.63843	4.61085	5.13015	5.13443	0.000450333	7.96E-04	1.66E-04	2.66E-05	1.44E-03	5.0E-07	1.5E-06	8.7E-07	7.9E-07	3.6E-07	1.5E-09	3.7E-08	1.9E-08	1.7E-08	5.2E-09	7.9E-08
403 UCAR	557069.4	3777513.38	557069.4, 3777513.38	4.22282	4.1834	4.69273	4.69633	0.000409983	7.22E-04	1.52E-04	2.43E-05	1.31E-03	4.5E-07	1.4E-06	7.9E-07	7.2E-07	3.3E-07	1.4E-09	3.3E-08	1.7E-08	1.5E-08	4.7E-09	7.2E-08
404 UCAR	557089.4	3777513.38	557089.4, 3777513.38	3.89657	3.86215	4.33996	4.34297	0.000378308	6.67E-04	1.40E-04	2.25E-05	1.21E-03	4.2E-07	1.3E-06	7.3E-07	6.6E-07	3.0E-07	1.3E-09	3.1E-08	1.6E-08	1.4E-08	4.3E-09	6.6E-08
405 UCAR	557109.4	3777513.38	557109.4, 3777513.38	3.65099	3.63022	4.06378	4.06632	0.000354465	6.27E-04	1.32E-04	2.11E-05	1.13E-03	3.9E-07	1.2E-06	6.9E-07	6.2E-07	2.8E-07	1.2E-09	2.9E-08	1.5E-08	1.3E-08	4.1E-09	6.2E-08
406 UCAR	557129.4	3777513.38	557129.4, 3777513.38	3.45681	3.4494	3.83843	3.84061	0.000335613	5.95E-04	1.24E-04	1.99E-05	1.08E-03	3.7E-07	1.1E-06	6.5E-07	5.9E-07	2.7E-07	1.1E-09	2.7E-08	1.4E-08	1.3E-08	3.9E-09	5.9E-08
407 UCAR	557149.4	3777513.38	557149.4, 3777513.38	3.29922	3.29955	3.6551	3.65702	0.000320313	5.70E-04	1.18E-04	1.89E-05	1.03E-03	3.6E-07	1.1E-06	6.2E-07	5.6E-07	2.6E-07	1.1E-09	2.6E-08	1.3E-08	1.2E-08	3.7E-09	5.6E-08
408 UCAR	557169.4	3777513.38	557169.4, 3777513.38	3.15681	3.15881	3.49291	3.49463	0.000306487	5.45E-04	1.13E-04	1.81E-05	9.83E-04	3.4E-07	1.0E-06	5.9E-07	5.4E-07	2.5E-07	1.0E-09	2.5E-08	1.3E-08	1.2E-08	3.5E-09	5.4E-08
409 UCAR	557189.4	3777513.38	557189.4, 3777513.38	3.02127	3.02077	3.34259	3.34417	0.000293327	5.21E-04	1.08E-04	1.73E-05	9.40E-04	3.3E-07	9.8E-07	5.7E-07	5.2E-07	2.4E-07	9.9E-10	2.4E-08	1.2E-08	1.1E-08	3.4E-09	5.2E-08
410 UCAR	557209.4	3777513.38	557209.4, 3777513.38	2.90929	2.90409	3.22243	3.22389	0.000282455	5.01E-04	1.04E-04	1.67E-05	9.05E-04	3.1E-07	9.5E-07	5.5E-07	5.0E-07	2.3E-07	9.5E-10	2.3E-08	1.2E-08	1.1E-08	3.2E-09	5.0E-08
411 UCAR	557229.4	3777513.38	557229.4, 3777513.38	2.79405	2.78441	3.09783	3.0992	0.000271267	4.81E-04	1.00E-04	1.60E-05	8.68E-04	3.0E-07	9.1E-07	5.3E-07	4.8E-07	2.2E-07	9.1E-10	2.2E-08	1.1E-08	1.0E-08	3.1E-09	4.8E-08
412 UCAR	557249.4	3777513.38	557249.4, 3777513.38	2.7002	2.68691	2.99638	2.99767	0.000262155	4.64E-04	9.70E-05	1.55E-05	8.38E-04	2.9E-07	8.8E-07	5.1E-07	4.6E-07	2.1E-07	8.8E-10	2.1E-08	1.1E-08	9.9E-09	3.0E-09	4.6E-08
413 UCAR	557269.4	3777513.38	557269.4, 3777513.38	2.60872	2.59351	2.89419	2.89541	0.000253274	4.48E-04	9.37E-05	1.50E-05	8.10E-04	2.8E-07	8.5E-07	4.9E-07	4.4E-07	2.0E-07	8.5E-10	2.1E-08	1.1E-08	9.6E-09	2.9E-09	4.4E-08
414 UCAR	557289.4	3777513.38	557289.4, 3777513.38	2.52496	2.5095	2.79741	2.79857	0.000245142	4.33E-04	9.05E-05	1.45E-05	7.83E-04	2.7E-07	8.2E-07	4.7E-07	4.3E-07	2.0E-07	8.2E-10	2.0E-08	1.0E-08	9.3E-09	2.8E-09	4.3E-08
415 UCAR	557309.4	3777513.38	557309.4, 3777513.38	2.45243	2.43809	2.71057	2.71168	0.0002381	4.21E-04	8.77E-05	1.40E-05	7.61E-04	2.6E-07	8.0E-07	4.6E-07	4.2E-07	1.9E-07	8.0E-10	1.9E-08	9.9E-09	9.0E-09	2.7E-09	4.2E-08
416 UCAR	557329.4	3777513.38	557329.4, 3777513.38	2.38416	2.37207	2.62611	2.62717	0.000231472	4.09E-04	8.50E-05	1.36E-05	7.39E-04	2.6E-07	7.7E-07	4.5E-07	4.1E-07	1.9E-07	7.8E-10	1.9E-08	9.7E-09	8.8E-09	2.7E-09	4.1E-08
417 UCAR	557349.4	3777513.38	557349.4, 3777513.38	2.31841	2.30931	2.54291	2.54392	0.000225088	3.99E-04	8.23E-05	1.32E-05	7.19E-04	2.5E-07	7.5E-07	4.4E-07	3.9E-07	1.8E-07	7.6E-10	1.8E-08	9.4E-09	8.5E-09	2.6E-09	4.0E-08
418 UCAR	557369.4	3777513.38	557369.4, 3777513.38	2.2547	2.24888	2.46131	2.46227	0.000218903	3.88E-04	7.97E-05	1.27E-05	6.99E-04	2.4E-07	7.3E-07	4.2E-07	3.8E-07	1.8E-07	7.4E-10	1.8E-08	9.1E-09	8.3E-09	2.5E-09	3.8E-08
419 UCAR	557389.4	3777513.38	557389.4, 3777513.38	2.1968	2.19414	2.38637	2.3873	0.000213282	3.79E-04	7.72E-05	1.24E-05	6.82E-04	2.4E-07	7.1E-07	4.1E-07	3.7E-07	1.7E-07	7.2E-10	1.7E-08	8.9E-09	8.1E-09	2.4E-09	3.7E-08
420 UCAR	557409.4	3777513.38	557409.4, 3777513.38	2.14089	2.14107	2.31425	2.31513	0.000207853	3.70E-04	7.49E-05	1.20E-05	6.64E-04	2.3E-07	6.9E-07	4.0E-07	3.6E-07	1.7E-07	7.0E-10	1.7E-08	8.7E-09	7.9E-09	2.4E-09	3.6E-08
421 UCAR	557429.4	3777513.38	557429.4, 3777513.38	2.07916	2.08177	2.23656	2.2374	0.00020186	3.59E-04	7.24E-05	1.16E-05	6.45E-04	2.2E-07	6.7E-07	3.9E-07	3.5E-07	1.6E-07	6.8E-10	1.6E-08	8.4E-09	7.6E-09	2.3E-09	3.5E-08
422 UCAR	557449.4	3777513.38	557449.4, 3777513.38	2.02076	2.0252	2.1639	2.16471	0.00019619	3.50E-04	7.00E-05	1.12E-05	6.27E-04	2.2E-07	6.6E-07	3.8E-07	3.4E-07	1.6E-07	6.6E-10	1.6E-08	8.2E-09	7.4E-09	2.3E-09	3.4E-08
423 UCAR	557469.4	3777513.38	557469.4, 3777513.38	1.96483	1.97053	2.09536	2.09613	0.00019076	3.40E-04	6.78E-05	1.09E-05	6.10E-04	2.1E-07	6.4E-07	3.7E-07	3.3E-07	1.5E-07	6.4E-10	1.5E-08	8.0E-09	7.2E-09	2.2E-09	3.3E-08
424 UCAR	557489.4	3777513.38	557489.4, 3777513.38	1.90986	1.9163	2.02924	2.02998	0.000185423	3.31E-04	6.57E-05	1.05E-05	5.92E-04	2.1E-07	6.2E-07	3.6E-07	3.2E-07	1.5E-07	6.2E-10	1.5E-08	7.7E-09	7.0E-09	2.1E-09	3.3E-08
425 UCAR	556509.4	3777533.38	556509.4, 3777533.38	5.52474	5.51774	5.77214	5.77026	0.000536383	9.52E-04	1.87E-04	2.99E-05	1.71E-03	5.9E-07	1.8E-06	1.0E-06	9.4E-07	4.3E-07	1.8E-09	4.3E-08	2.2E-08	2.0E-08	6.1E-09	9.4E-08
426 UCAR	556529.4	3777533.38	556529.4, 3777533.38	5.95055	5.96416	6.22194	6.22005	0.000577724	1.03E-03	2.01E-04	3.22E-05	1.84E-03	6.4E-07	1.9E-06	1.1E-06	1.0E-06	4.6E-07	1.9E-09	4.7E-08	2.4E-08	2.2E-08	6.6E-09	1.0E-07
427 UCAR	556549.4	3777533.38	556549.4, 3777533.38	6.35361	6.3951	6.6708	6.66914	0.000616856	1.10E-03	2.16E-04	3.45E-05	1.97E-03	6.8E-07	2.1E-06	1.2E-06	1.1E-06	4.9E-07	2.1E-09	5.0E-08	2.6E-08	2.3E-08	7.1E-09	1.1E-07
428 UCAR	556569.4	3777533.38	556569.4, 3777533.38	6.69899	6.77071	7.10551	7.10443	0.000650388	1.17E-03	2.30E-04	3.68E-05	2.09E-03	7.2E-07	2.2E-06	1.3E-06	1.1E-06	5.2E-07	2.2E-09	5.3E-08	2.7E-08	2.5E-08	7.5E-09	1.1E-07
429 UCAR	556589.4	3777533.38	556589.4, 3777533.38	6.91392	7.00711	7.46931	7.46928	0.000671255	1.21E-03	2.42E-04	3.87E-05	2.16E-03	7.5E-07	2.3E-06	1.3E-06	1.2E-06	5.4E-07	2.3E-09	5.5E-08	2.8E-08	2.6E-08	7.8E-09	1.2E-07
430 UCAR	556609.4	3777533.38	556609.4, 3777533.38	6.95326	7.04	7.71771	7.71915	0.000675074	1.22E-03	2.50E-04	4.00E-05	2.18E-03	7.5E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.5E-08	2.8E-08	2.6E-08	7.8E-09	1.2E-07
431 UCAR	556629.4	3777533.38	556629.4, 3777533.38	6.7998	6.85135	7.79519	7.79829	0.000660175	1.18E-03	2.52E-04	4.04E-05	2.14E-03	7.4E-07	2.2E-06	1.3E-06	1.2E-06	5.3E-07	2.2E-09	5.4E-08	2.8E-08	2.5E-08	7.7E-09	1.2E-07
432 UCAR	556649.4	3777533.38	556649.4, 3777533.38	6.50766	6.50465	7.67564	7.68012	0.000631812	1.12E-03	2.48E-04	3.98E-05	2.04E-03	7.1E-07	2.1E-06	1.2E-06	1.1E-06	5.1E-07	2.1E-09	5.2E-08	2.7E-08	2.4E-08	7.3E-09	1.1E-07
433 UCAR	556669.4	3777533.38	556669.4, 3777533.38	6.19042	6.15606	7.38648	7.39152	0.000601012	1.06E-03	2.39E-04	3.83E-05	1.94E-03	6.7E-07	2.0E-06	1.2E-06	1.1E-06	4.9E-07	2.0E-09	4.9E-08	2.5E-08	2.3E-08	7.0E-09	1.1E-07
434 UCAR	556689.4	3777533.38	556689.4, 3777533.38	6.01231	5.98991	7.09932	7.1039	0.0005837	1.03E-03	2.30E-04	3.68E-05	1.88E-03	6.5E-07	2.0E-06	1.1E-06	1.0E-06	4.7E-07	2.0E-09	4.8E-08	2.5E-08	2.2E-08	6.8E-09	1.0E-07
435 UCAR	556709.4	3777533.38	556709.4, 3777533.38	6.00465	6.01708	6.91831	6.92168	0.000582976	1.04E-03	2.24E-04	3.58E-05	1.88E-03	6.5E-07	2.0E-06	1.1E-06	1.0E-06	4.7E-07	2.0E-09	4.8E-08	2.5E-08	2.2E-08	6.8E-09	1.0E-07
436 UCAR	556729.4	3777533.38	556729.4, 3777533.38	6.0949	6.12923	6.86907	6.8711	0.000591738	1.06E-03	2.22E-04	3.56E-05	1.91E-03	6.6E-07	2.0E-06	1.2E-06	1.0E-06	4.8E-07	2.0E-09	4.8E-08	2.5E-08	2.3E-08	6.8E-09	1.0E-07
437 UCAR	556749.4	3777533.38	556749.4, 3777533.38	6.19453	6.22342	6.92516	6.92633	0.000601411	1.07E-03	2.24E-04	3.59E-05	1.94E-03	6.7E-07	2.0E-06	1.2E-06	1.1E-06	4.8E-07	2.0E-09	4.9E-08	2.5E-08	2.3E-08	6.9E-09	1.1E-07
438 UCAR	556769.4	3777533.38	556769.4, 3777533.38	6.28367	6.2914	7.05723	7.05811	0.000610065	1.09E-03	2.28E-04	3.65E-05	1.96E-03	6.8E-07	2.0E-06	1.2E-06	1.1E-06	4.9E-07	2.1E-09	5.0E-08	2.6E-08	2.3E-08	7.0E-09	1.1E-07
439 UCAR	556789.4	3777533.38	556789.4, 3777533.38	6.36097	6.35022	7.2043	7.20525	0.00061757	1.10E-03	2.33E-04	3.73E-05	1.98E-03	6.9E-07	2.1E-06	1.2E-06	1.1E-06	5.0E-07	2.1E-09	5.0E-08	2.6E-08	2.4E-08	7.1E-09	1.1E-07
440 UCAR	556809.4	3777533.38	556809.4, 3777533.38	6.41887	6.40375	7.30824	7.30938	0.000623191	1.11E-03	2.37E-04	3.78E-05	2.00E-03	6.9E-07	2.1E-06	1.2E-06	1.1E-06	5.0E-07	2.1E-09	5.1E-08	2.6E-08	2.4E-08	7.2E-09	1.1E-07
441 UCAR	556829.4	3777533.38	556829.4, 3777533.38	6.53363	6.52708	7.45165	7.45295	0.000634333	1.13E-03	2.41E-04	3.86E-05	2.04E-03	7.1E-07	2.1E-06	1.2E-06	1.1E-06	5.1E-07	2.1E-09	5.2E-08	2.7E-08	2.4E-08	7.3E-09	1.1E-07
442 UCAR	556849.4	3777533.38	556849.4, 3777533.38	6.61156	6.61997	7.53615	7.53774	0.000641899	1.14E-03	2.44E-04	3.90E-05	2.07E-03	7.2E-07	2.2E-06	1.3E-06	1.1E-06	5.2E-07	2.2E-09	5.2E-08	2.7E-08	2.4E-08	7.4E-09	1.1E-07
443 UCAR	556869.4	3777533.38	556869.4, 3777533.38	6.67711	6.69157	7.61466	7.6167	0.000648263	1.15E-03	2.46E-04	3.94E-05	2.09E-03	7.2E-07	2.2E-06	1.3E-06	1.1E-06	5.2E-07	2.2E-09	5.3E-08	2.7E-08	2.5E-08	7.5E-09	1.1E-07
444 UCAR	556889.4	3777533.38	556889.4, 3777533.38	6.68231	6.69014	7.63255	7.63514	0.000648768	1.15E-03	2.47E-04	3.95E-05	2.09E-03	7.2E-07	2.2E-06	1.3E-06	1.1E-06	5.2E-07	2.2E-09	5.3E-08	2.7E-08	2.5E-08	7.5E-09	1.1E-07
445 UCAR	556909.4	3777533.38	556909.4, 3777533.38	6.60348	6.60304	7.5431	7.54628	0.000641115	1.14E-03	2.44E-04	3.91E-05	2.06E-03	7.1E-07	2.2E-06	1.2E-06	1.1E-06	5.2E-07	2.2E-09	5.2E-08	2.7E-08	2.4E-08	7.4E-09	1.1E-07
446 UCAR	556929.4	3777533.38	556929.4, 3777533.38	6.47247	6.47456	7.36458	7.36829	0.000628395	1.12E-03	2.38E-04	3.82E-05	2.02E-03	7.0E-07	2.1E-06	1.2E-06	1.1E-06	5.1E-07	2.1E-09

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s				Unmitigated					Residential Dose					Risk by Age Group				
	X	Y	X, Y	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Combined	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
497	UCAR	556949.4	3777553.38	556949.4, 3777553.38	5.73718	5.74615	6.44716	6.45059	0.00557008	9.92E-04	2.09E-04	3.34E-05	1.79E-03	6.2E-07	1.9E-06	1.1E-06	9.8E-07	4.5E-07	1.9E-09	4.5E-08	2.3E-08	2.1E-08	6.4E-09	9.8E-08
498	UCAR	556969.4	3777553.38	556969.4, 3777553.38	5.53966	5.56393	6.1605	6.16426	0.00537831	9.60E-04	1.99E-04	3.19E-05	1.73E-03	6.0E-07	1.8E-06	1.0E-06	9.5E-07	4.3E-07	1.8E-09	4.4E-08	2.3E-08	2.0E-08	6.2E-09	9.5E-08
499	UCAR	556989.4	3777553.38	556989.4, 3777553.38	5.26929	5.3053	5.79526	5.79923	0.00511582	9.16E-04	1.88E-04	3.00E-05	1.64E-03	5.7E-07	1.7E-06	1.0E-06	9.0E-07	4.1E-07	1.7E-09	4.2E-08	2.1E-08	1.9E-08	5.9E-09	9.0E-08
500	UCAR	557009.4	3777553.38	557009.4, 3777553.38	4.95835	4.99553	5.409	5.41303	0.00481393	8.62E-04	1.75E-04	2.80E-05	1.55E-03	5.4E-07	1.6E-06	9.4E-07	8.5E-07	3.9E-07	1.6E-09	3.9E-08	2.0E-08	1.8E-08	5.6E-09	8.5E-08
501	UCAR	557029.4	3777553.38	557029.4, 3777553.38	4.5879	4.61229	4.98779	4.99169	0.00445427	7.96E-04	1.61E-04	2.58E-05	1.43E-03	4.9E-07	1.5E-06	8.6E-07	7.8E-07	3.6E-07	1.5E-09	3.6E-08	1.9E-08	1.7E-08	5.1E-09	7.8E-08
502	UCAR	557049.4	3777553.38	557049.4, 3777553.38	4.21152	4.21323	4.58686	4.59047	0.00408886	7.27E-04	1.48E-04	2.38E-05	1.31E-03	4.5E-07	1.4E-06	7.9E-07	7.2E-07	3.3E-07	1.4E-09	3.3E-08	1.7E-08	1.6E-08	4.7E-09	7.2E-08
503	UCAR	557069.4	3777553.38	557069.4, 3777553.38	3.84973	3.82913	4.21398	4.21718	0.00037376	6.61E-04	1.36E-04	2.18E-05	1.19E-03	4.1E-07	1.2E-06	7.2E-07	6.5E-07	3.0E-07	1.3E-09	3.0E-08	1.6E-08	1.4E-08	4.3E-09	6.6E-08
504	UCAR	557089.4	3777553.38	557089.4, 3777553.38	3.5304	3.4976	3.8848	3.88756	0.00034257	6.04E-04	1.26E-04	2.01E-05	1.09E-03	3.8E-07	1.1E-06	6.6E-07	6.0E-07	2.7E-07	1.1E-09	2.8E-08	1.4E-08	1.3E-08	3.9E-09	6.0E-08
505	UCAR	557109.4	3777553.38	557109.4, 3777553.38	3.26875	3.23663	3.60757	3.60991	0.00031735	5.59E-04	1.17E-04	1.87E-05	1.01E-03	3.5E-07	1.1E-06	6.1E-07	5.5E-07	2.5E-07	1.1E-09	2.6E-08	1.3E-08	1.2E-08	3.6E-09	5.6E-08
506	UCAR	557129.4	3777553.38	557129.4, 3777553.38	3.07123	3.04825	3.38971	3.39171	0.00029817	5.26E-04	1.10E-04	1.76E-05	9.52E-04	3.3E-07	9.9E-07	5.8E-07	5.2E-07	2.4E-07	1.0E-09	2.4E-08	1.2E-08	1.1E-08	3.4E-09	5.2E-08
507	UCAR	557149.4	3777553.38	557149.4, 3777553.38	2.9166	2.90509	3.21183	3.21355	0.00028165	5.01E-04	1.04E-04	1.66E-05	9.05E-04	3.1E-07	9.5E-07	5.5E-07	5.0E-07	2.3E-07	9.5E-10	2.3E-08	1.2E-08	1.1E-08	3.2E-09	5.0E-08
508	UCAR	557169.4	3777553.38	557169.4, 3777553.38	2.78576	2.78328	3.05822	3.05973	0.00027046	4.80E-04	9.90E-05	1.58E-05	8.66E-04	3.0E-07	9.0E-07	5.2E-07	4.7E-07	2.2E-07	9.1E-10	2.2E-08	1.1E-08	1.0E-08	3.1E-09	4.8E-08
509	UCAR	557189.4	3777553.38	557189.4, 3777553.38	2.67237	2.67438	2.92651	2.92785	0.00025953	4.62E-04	9.47E-05	1.52E-05	8.31E-04	2.9E-07	8.7E-07	5.0E-07	4.6E-07	2.1E-07	8.7E-10	2.1E-08	1.1E-08	9.8E-09	3.0E-09	4.6E-08
510	UCAR	557209.4	3777553.38	557209.4, 3777553.38	2.57115	2.57352	2.81263	2.81385	0.00024962	4.44E-04	9.10E-05	1.46E-05	7.99E-04	2.8E-07	8.4E-07	4.8E-07	4.4E-07	2.0E-07	8.4E-10	2.0E-08	1.0E-08	9.5E-09	2.9E-09	4.4E-08
511	UCAR	557229.4	3777553.38	557229.4, 3777553.38	2.47419	2.4743	2.70703	2.70816	0.00024023	4.27E-04	8.76E-05	1.40E-05	7.69E-04	2.7E-07	8.0E-07	4.7E-07	4.2E-07	1.9E-07	8.1E-10	2.0E-08	1.0E-08	9.1E-09	2.8E-09	4.2E-08
512	UCAR	557249.4	3777553.38	557249.4, 3777553.38	2.38533	2.38196	2.61283	2.61389	0.00023186	4.11E-04	8.46E-05	1.35E-05	7.41E-04	2.6E-07	7.7E-07	4.5E-07	4.1E-07	1.9E-07	7.8E-10	1.9E-08	9.7E-09	8.8E-09	2.7E-09	4.1E-08
513	UCAR	557269.4	3777553.38	557269.4, 3777553.38	2.30503	2.29804	2.52885	2.52985	0.00022389	3.97E-04	8.18E-05	1.31E-05	7.15E-04	2.5E-07	7.5E-07	4.3E-07	3.9E-07	1.8E-07	7.5E-10	1.8E-08	9.3E-09	8.5E-09	2.6E-09	3.9E-08
514	UCAR	557289.4	3777553.38	557289.4, 3777553.38	2.23195	2.22192	2.45211	2.45306	0.00021669	3.84E-04	7.94E-05	1.27E-05	6.92E-04	2.4E-07	7.2E-07	4.2E-07	3.8E-07	1.7E-07	7.3E-10	1.8E-08	9.0E-09	8.2E-09	2.5E-09	3.8E-08
515	UCAR	557309.4	3777553.38	557309.4, 3777553.38	2.16436	2.15226	2.37962	2.38053	0.00021032	3.71E-04	7.70E-05	1.23E-05	6.71E-04	2.3E-07	7.0E-07	4.1E-07	3.7E-07	1.7E-07	7.1E-10	1.7E-08	8.8E-09	7.9E-09	2.4E-09	3.7E-08
516	UCAR	557329.4	3777553.38	557329.4, 3777553.38	2.10238	2.08932	2.31112	2.31198	0.00020415	3.61E-04	7.48E-05	1.20E-05	6.51E-04	2.3E-07	6.8E-07	3.9E-07	3.6E-07	1.6E-07	6.8E-10	1.7E-08	8.5E-09	7.7E-09	2.3E-09	3.6E-08
517	UCAR	557349.4	3777553.38	557349.4, 3777553.38	2.04738	2.03438	2.24822	2.24904	0.00019875	3.51E-04	7.28E-05	1.16E-05	6.34E-04	2.2E-07	6.6E-07	3.8E-07	3.5E-07	1.6E-07	6.7E-10	1.6E-08	8.3E-09	7.5E-09	2.3E-09	3.5E-08
518	UCAR	557369.4	3777553.38	557369.4, 3777553.38	1.99559	1.98362	2.18679	2.18758	0.00019347	3.42E-04	7.08E-05	1.13E-05	6.18E-04	2.1E-07	6.5E-07	3.7E-07	3.4E-07	1.5E-07	6.5E-10	1.6E-08	8.1E-09	7.3E-09	2.2E-09	3.4E-08
519	UCAR	557389.4	3777553.38	557389.4, 3777553.38	1.94294	1.9328	2.12263	2.12338	0.00018835	3.34E-04	6.87E-05	1.10E-05	6.02E-04	2.1E-07	6.3E-07	3.6E-07	3.3E-07	1.5E-07	6.3E-10	1.5E-08	7.9E-09	7.1E-09	2.2E-09	3.3E-08
520	UCAR	557409.4	3777553.38	557409.4, 3777553.38	1.89759	1.88965	2.06574	2.06647	0.00018342	3.26E-04	6.69E-05	1.07E-05	5.88E-04	2.0E-07	6.1E-07	3.6E-07	3.2E-07	1.5E-07	6.2E-10	1.5E-08	7.7E-09	7.0E-09	2.1E-09	3.2E-08
521	UCAR	557429.4	3777553.38	557429.4, 3777553.38	1.85319	1.84768	2.00933	2.01003	0.00017891	3.19E-04	6.50E-05	1.04E-05	5.74E-04	2.0E-07	6.0E-07	3.5E-07	3.1E-07	1.4E-07	6.0E-10	1.5E-08	7.5E-09	6.8E-09	2.1E-09	3.2E-08
522	UCAR	557449.4	3777553.38	557449.4, 3777553.38	1.81156	1.80846	1.95592	1.9566	0.00017588	3.12E-04	6.33E-05	1.01E-05	5.61E-04	1.9E-07	5.9E-07	3.4E-07	3.1E-07	1.4E-07	5.9E-10	1.4E-08	7.3E-09	6.7E-09	2.0E-09	3.1E-08
523	UCAR	557469.4	3777553.38	557469.4, 3777553.38	1.76869	1.76784	1.90138	1.90203	0.00017178	3.05E-04	6.15E-05	9.85E-06	5.48E-04	1.9E-07	5.7E-07	3.3E-07	3.0E-07	1.4E-07	5.8E-10	1.4E-08	7.2E-09	6.5E-09	2.0E-09	3.0E-08
524	UCAR	557489.4	3777553.38	557489.4, 3777553.38	1.72226	1.72339	1.84345	1.84407	0.00016721	2.97E-04	5.97E-05	9.55E-06	5.34E-04	1.8E-07	5.6E-07	3.2E-07	2.9E-07	1.3E-07	5.6E-10	1.4E-08	7.0E-09	6.3E-09	1.9E-09	2.9E-08
525	1	557438.91	3777336.71	557438.91, 3777336.7	2.91441	2.90922	3.01672	3.01812	0.00028953	5.02E-04	9.76E-05	1.56E-05	8.98E-04	3.1E-07	9.4E-07	5.4E-07	4.9E-07	2.2E-07	9.4E-10	2.3E-08	1.2E-08	1.1E-08	3.2E-09	4.9E-08
526	1	556615.91	3777136.99	556615.91, 3777136.9	9.02595	8.94544	8.04984	8.04048	0.00087636	1.54E-03	2.61E-04	4.16E-05	2.72E-03	9.4E-07	2.8E-06	1.6E-06	1.5E-06	6.8E-07	2.9E-09	6.9E-08	3.6E-08	3.2E-08	9.8E-09	1.5E-07
527	1	556586.37	3777056.16	556586.37, 3777056.1	5.55031	5.55728	4.03221	4.02755	0.00053886	9.59E-04	1.30E-04	2.09E-05	1.65E-03	5.7E-07	1.7E-06	1.0E-06	9.0E-07	4.1E-07	1.7E-09	4.2E-08	2.2E-08	2.0E-08	5.9E-09	9.1E-08
528	UCAR	556672.35	3776929.14	556672.35, 3776929.1	4.60814	4.60169	4.16875	4.16569	0.00044732	7.94E-04	1.35E-04	2.16E-05	1.40E-03	4.8E-07	1.5E-06	8.5E-07	7.7E-07	3.5E-07	1.5E-09	3.5E-08	1.8E-08	1.7E-08	5.0E-09	7.7E-08
529	UCAR	556692.35	3776929.14	556692.35, 3776929.1	4.96352	4.96195	4.44894	4.44576	0.00048189	8.56E-04	1.44E-04	2.30E-05	1.51E-03	5.2E-07	1.6E-06	9.1E-07	8.3E-07	3.8E-07	1.6E-09	3.8E-08	2.0E-08	1.8E-08	5.4E-09	8.3E-08
530	UCAR	556712.35	3776929.14	556712.35, 3776929.1	5.32104	5.32276	4.73423	4.73093	0.00051660	9.19E-04	1.53E-04	2.45E-05	1.61E-03	5.6E-07	1.7E-06	9.8E-07	8.8E-07	4.0E-07	1.7E-09	4.1E-08	2.1E-08	1.9E-08	5.8E-09	8.9E-08
531	UCAR	556732.35	3776929.14	556732.35, 3776929.1	5.66394	5.65601	5.02061	5.01709	0.00054989	9.76E-04	1.62E-04	2.60E-05	1.71E-03	5.9E-07	1.8E-06	1.0E-06	9.4E-07	4.3E-07	1.8E-09	4.4E-08	2.2E-08	2.0E-08	6.2E-09	9.4E-08
532	UCAR	556752.35	3776929.14	556752.35, 3776929.1	6.04738	6.02196	5.35876	5.35479	0.00058724	1.04E-03	1.73E-04	2.77E-05	1.83E-03	6.3E-07	1.9E-06	1.1E-06	1.0E-06	4.6E-07	1.9E-09	4.6E-08	2.4E-08	2.2E-08	6.6E-09	1.0E-07
533	UCAR	556772.35	3776929.14	556772.35, 3776929.1	6.47911	6.44389	5.72862	5.72388	0.00062904	1.11E-03	1.85E-04	2.96E-05	1.96E-03	6.8E-07	2.0E-06	1.2E-06	1.1E-06	4.9E-07	2.1E-09	5.0E-08	2.6E-08	2.3E-08	7.0E-09	1.1E-07
534	UCAR	556792.35	3776929.14	556792.35, 3776929.1	7.02913	6.98286	6.20012	6.19438	0.00068244	1.21E-03	2.01E-04	3.21E-05	2.12E-03	7.3E-07	2.2E-06	1.3E-06	1.2E-06	5.3E-07	2.2E-09	5.4E-08	2.8E-08	2.5E-08	7.6E-09	1.2E-07
535	UCAR	556812.35	3776929.14	556812.35, 3776929.1	7.74591	7.65648	6.83429	6.82726	0.00075203	1.32E-03	2.21E-04	3.54E-05	2.33E-03	8.1E-07	2.4E-06	1.4E-06	1.3E-06	5.8E-07	2.4E-09	5.9E-08	3.0E-08	2.8E-08	8.4E-09	1.3E-07
536	UCAR	556832.35	3776929.14	556832.35, 3776929.1	8.62417	8.45399	7.59427	7.58521	0.00083798	1.46E-03	2.46E-04	3.93E-05	2.58E-03	8.9E-07	2.7E-06	1.6E-06	1.4E-06	6.5E-07	2.7E-09	6.6E-08	3.4E-08	3.1E-08	9.3E-09	1.4E-07
537	UCAR	556852.35	3776929.14	556852.35, 3776929.1	9.93996	9.67335	8.68635	8.67417	0.00096504	1.67E-03	2.81E-04	4.49E-05	2.96E-03	1.0E-06	3.1E-06	1.8E-06	1.6E-06	7.4E-07	3.1E-09	7.5E-08	3.9E-08	3.5E-08	1.1E-08	1.6E-07
538	UCAR	556672.35	3776949.14	556672.35, 3776949.1	5.00628	5.00013	4.51805	4.51444	0.00048047	8.63E-04	1.46E-04	2.34E-05	1.52E-03	5.3E-07	1.6E-06	9.2E-07	8.3E-07	3.8E-07	1.6E-09	3.9E-08	2.0E-08	1.8E-08	5.5E-09	8.3E-08
539	UCAR	556692.35	3776949.14	556692.35, 3776949.1	5.4439	5.4395	4.86145	4.85763	0.00052834	9.39E-04	1.57E-04	2.52E-05	1.65E-03	5.7E-07	1.7E-06	1.0E-06	9.0E-07	4.1E-07	1.7E-09	4.2E-08	2.2E-08	2.0E-08	5.9E-09	9.1E-08
540	UCAR	556712.35	3776949.14	556712.35, 3776949.1	5.88827	5.88975	5.20577	5.20179	0.00057167	1.02E-03	1.68E-04	2.69E-05	1.78E-03	6.2E-07	1.9E-06	1.1E-06	9.8E-07	4.5E-07	1.9E-09	4.5E-08	2.3E-08	2.1E-08	6.4E-09	9.8E-08
541	UCAR	556732.35	3776949.14	556732.35, 3776949.1	6.32157	6.31957	5.55059	5.54639	0.00061345	1.09E-03	1.80E-04	2.87E-05	1.91E-03	6.6E-07	2.0E-06	1.2E-06	1.0E-06	4.8E-07	2.0E-09	4.9E-08	2.5E-08	2.3E-08	6.9E-09	1.1E-07
542	UCAR	556752.35	3776949.14	556752.35, 3776949.1	6.75955	6.73931	5.91649	5.91181	0.00065627	1.16E-03	1.91E-04	3.06E-05	2.04E-03	7.1E-07	2.1E-06	1.2E-06	1.1E-06	5.1E-07	2.1E-09	5.2E-08	2.7E-08	2.4E-08	7.3E-09	1.1E-07
543	UCAR	556772.35	3776949.14	556772.35, 3776949.1	7.28676	7.2497	6.3663	6.36076	0.00070753	1.25E-03	2.06E-04	3.29E-05	2.20E-03	7.6E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.6E-08	2.9E-08	2.6E-08	7.9E-09	1.2E-07
544	UCAR	556792.35	3776949.14	556792.35, 3776949.1	7.97515	7.92317	6.95447	6.94769	0.00077428	1.37E-03	2.25E-04	3.60E-05	2.40E-03	8.3E-07	2.5E-06	1.5E-06	1.3E-06	6.0E-07	2.5E-09	6.1E-08	3.1E-08	2.8E-08	8.6E-09	1.3E-07
545	UCAR	556812.35	3776949.14	556812.35, 3776949.1	8.83574	8.73629	7.69381	7.68536	0.00085839	1.51E-03	2.49E-04	3.98E-05	2.65E-03	9.2E-07	2.8E-06	1.6E-06	1.5E-06	6.6E-07	2.8E-09	6.7E-08	3.5E-08	3.1E-08	9.5E-09	1.5E-07
546	UCAR	556832.35	3776949.14	556832.35, 3776949.1	9.92372	9.72819	8.60612	8.59508	0.00096368	1.68E-03	2.79E-04	4.45E-05	2.97E-03	1.0E-06	3.1E-06	1.8E-06	1.6E-06	7.4E-07	3.1E-09	7.5E-08	3.9E-08	3.5E-08	1.1E-08	1.6E-07
547	UCAR	556852.35	3776949.14	556852.35, 3776949.1	11.58509	11.27018	9.94215	9.92705	0.00112476	1.95E-03	3.22E-04	5.14E-05	3.44E-03	1.2E-06	3.6E-06	2.1E-06	1.9E-06	8.6E-07	3.6E-09	8.7E-08	4.5E-08	4.1E-08	1.2E-08	1.9E-07
548	UCAR	556672.35	3776969.14	556672.35, 3776969.1	5.43948	5.43389	4.89767	4.89342	0.00052810	9.38E-04	1.59E-04	2.53E-05	1.65E-03	5.7E-07	1.7E-06	1.0E-06	9.0E-07	4.1E-07	1.7E-09	4.2E-08	2.2E-08	2.0E-08	5.9E-09	9.1E-08
549	UCAR	556692.35	3776969.14	556692.35, 3776969.1	5.97798	5.97259	5.31945	5.31485	0.00058038	1.03E-03	1.72E-04	2.75E-05	1.81E-03	6.3E-07	1.9E-06	1.1E-06	9.9E-07	4.5E-07	1.9E-09	4.6E-08	2.4E-08	2.1E-08	6.5E-09	9.9E-08
550	UCAR	556712.35	3776969.14	556712.35, 3776969.1	6.54401	6.54331	5.75383	5.74898	0.00063534	1.13E-03	1.86E-04	2.98E-05	1.98E-03	6.9E-07	2.1E-06	1.2E-06	1.1E-06	5.0E-07	2.1E-09	5.0E-08	2.6E-08	2.3E-08	7.1E-09	1.1E-07
551	UCAR	556732.35	3776969.14	556732.35, 3776969.1	7.10763	7.10971	6.18634	6.18124	0.00069061	1.23E-03	2.00E-04	3.20E-05	2.15E-03	7.4E-07	2.2E-06	1.3E-06	1.2E-06	5.4E-07	2.3E-09	5.5E-08	2.8E-08	2.5E-08	7.7E-09	1.2E-07
552	UCAR	556752.35	3776969.14	556752.35, 3776969.1	7.66314	7.65047	6.62912	6.62354	0.00074394	1.32E-03	2.15E-04	3.43E-05	2.31E-03	8.0E-07	2.4E-06	1.4E-06	1.3E-06	5.8E-07	2.4E-09	5.9E-08	3.0E-08	2.7E-08	8.3E-09	1.3E-07
553	UCAR	556772.35	3776969.14	556772.35, 3776969.1	8.29192	8.2561	7.14933	7.14278	0.00080504	1.43E-03	2.31E-04	3.70E-05	2.50E-03	8.6E-07	2.6E-06	1.5E-06	1.4E-06	6.3E-07	2.6E-09	6.3E-08	3.3E-08	3.0E-08	9.0E-09	1.4E-07
554	UCAR	556792.35	3776969.14	556792.35, 3776969.1	9.11391	9.0567	7.83665	7.82855	0.00088446	1.56E-03	2.54E-04	4.05E-05	2.74E-03	9.5E-07	2.9E-06	1.7E-06	1.5E-06	6.9E-07	2.9E-09	7.0E-08	3.6E-08	3.2E-08	9.8E-09	1.5E-07
555	UCAR	556812.35	3776969.14	556812.35, 3776969.1	10.16011	10.04931	8.70851	8.69825	0.00098619	1.73E-03	2.82E-04	4.50E-05	3.05E-03	1.1E-06	3.2E-06	1.8E-06	1.7E-06	7.6E-07	3.2E-09	7.7E-08	4.0E-08	3.6E-08	1.1E-08	1.7E-07
556	UCAR	556832.35	3776969.14	556832.35, 3776969.1	11.56849	11.34184	9.85508	9.84144	0.00112315	1.96E-03	3.19E-04	5.10E-05	3.45E-03	1.2E-06	3.6E-06	2.1E-06	1.9E-06	8.6E-07	3.6E-09	8.8E-08	4.5E-08	4.1E-08	1.2E-08	1.9E-07
557	UCAR	556852.35	3776969.14	556852.35, 3776969.1	13.70726	13.33153	11.51253	11.4935	0.00133080	2.30E-03	3.73E-04	5.95E-05	4.06E-03	1.4E-06	4.2E-06	2.5E-06	2.2E-06	1.0E-06	4.3E-09	1.0E-07	5.3E-08	4.8E-08	1.5E-08	2.2E-07
558	UCAR	556672.35	3776989.14	556672.35, 3776989.1	5.91233	5.89956	5.31281	5.30785	0.00057403	1.02E-03	1.72E-04	2.75E-05	1.79E-03	6.2E-07	1.9E-06	1.1E-06	9.8E-07	4.5E-07	1.9E-09	4.5E-08	2.3E-08	2.1E-08	6.4E-09	9.8E-08
559	UCAR	556692.35	3776989.14	556692.35, 3776989.1	6.5679	6.56216	5.82504	5.81951	0.00063766	1.13E-03	1.89E-04	3.01E-05	1.99E-03	6.9E-07	2.1E-06	1.2E-06	1.1E-06	5.0E-07	2.1E-09	5.0E-08	2.6E-08	2.4E-08	7.1E-09	1.1E-07
560	UCAR	556712.35	3776989.14	556712.35, 3776989.1	7.28672	7.28418	6.37389	6.36791	0.00070749	1.26E-03	2.06E-04	3.30E-05	2.20E-03	7.6E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.6E-08	2.9E-08	2.6E-08	7.9E-09	1.2E-07
561	UCAR	556732.35	3776989.14	556732.35, 3776989.1	8.02602	8.02947	6.92713	6.92081	0.00077926	1.39E-03	2.24E-04	3.58E-05	2.43E-03	8.4E-07	2.5E-06	1.5E-06	1.3E-06	6.1E-07	2.5E-09	6.2E-08	3.2E-08	2.9E-08	8.7E-09	1.3E-07
562	UCAR	556752.35	3776989.14	556752.35, 3776989.1	8.75878	8.75477	7.48434	7.47753	0.00085036	1.51E-03	2.42E-04	3.87E-05	2.64E-03	9.1E-07	2.8E-06	1.6E-06	1.4E-06	6.6E-07	2.8E-09	6.7E-08	3.5E-08	3.1E-08	9.5E-09	1.5E-07
563	UCAR	556772.35	3776989.14	556772.35, 3776989.1	9.54017	9.5099	8.10273	8.09487	0.00092623	1.64E-03	2.62E-04	4.19E-05	2.87E-03	9.9E-07	3.0E-06	1.7E-06	1.6E-06	7.2E-07	3.0E-09	7.3E-08	3.8E-08	3.4E-08	1.0E-08	1.6E-07
564	UCAR	556792.35	3776989.14	556792.35, 3776989.1	10.54125	10.48084	8.91551	8.90574	0.00102323	1.81E-03	2.89E-04	4.61E-05	3.17E-03	1.1E-06	3.3E-06	1.9E-06	1.7E-06	7.9E-07	3.3E-09	8.0E-08	4.1E-08	3.8E-08	1.1E-08	1.7E-07
565	UCAR	556812.35	3776989.14	556812.35, 3776989.1	11.82892	11.70569	9.95296	9.94034	0.00114839	2.02E-03	3.22E-04	5.15E-05	3.54E-03	1.2E-06	3.7E-06	2.1E-06	1.9E-06	8.9E-07	3.7E-09	9.0E-08	4.6E-08	4.2E-08	1.3E-08	1.9E-07
566	UCAR	556832.35	3776989.14	556832.35, 3776989.1	13.65318	13.38948	11.3824	11.36529	0.00132555	2.31E-03	3.68E-04	5.88E-05	4.06E-03	1.4E-06	4.2E-06	2.5E-06	2.2E-06	1.0E-06	4.3E-09	1.0E-07	5.3E-08	4.8E-08	1.5E-08	2.2E-07
567	UCAR	556852.35	3776989.14	556852.35, 3776989.1	16.50901	16.05703	13.50947	13.48501	0.00160281	2.77E-03	4.37E-04	6.98E-05	4.88E-03	1.7E-06	5.1E-06	3.0E-06	2.7E-06	1.2E-06	5.1E-09	1.2E-07	6.4E-08	5.8E-08	1.8E-08	2.7E-07
568	UCAR	556672.35	3777009.14	556672.35, 3777009.1	6.44628	6.41065	5.77018	5.76448	0.00062853	1.11E-03	1.87E-04	2.98E-05	1.95E-03	6.7E-07	2.0E-06	1.2E-06	1.1E-06	4.9E-07	2.0E-09	4.9E-08	2.5E-08	2.3E-08	7.0E-09	1.1E-07
569	UCAR	556692.35	3777009.14	556692.35, 3777009.1	7.22154	7.20708	6.38336	6.37677	0.00070112	1.24E-03	2.07E-04	3.30E-05	2.18E-03	7.6E-07	2.3E-06	1.3E-06	1.2E-06	5.5E-07	2.3E-09	5.5E-08	2.9E-08	2.6E-08	7.8E-09	1.2E-07
570	UCAR	556712.35	3777009.14	556712.35, 3777009.1	8.12503	8.12083	7.07273	7.06535	0.00078838	1.40E-03	2.29E-04	3.66E-05	2.46E-03	8.5E-07

Operational Risk - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration [µg/m^3] at 1 g/s				Unmitigated					Residential Dose					Risk by Age Group					
				Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point	Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point													
	X	Y	X, Y	(Volume Source)	Source)	Source)	Source)	(Volume Source)	Source)	Source)	Source)	Combined	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
621	UCAR	557027.54	3776999.53	557027.54, 3776999.5	11.45666	11.34339	12.197	12.21664	0.001112297	1.96E-03	3.95E-04	6.33E-05	3.53E-03	1.2E-06	3.7E-06	2.1E-06	1.9E-06	8.8E-07	3.7E-09	9.0E-08	4.6E-08	4.2E-08	1.3E-08	1.9E-07
622	UCAR	557047.54	3776999.53	557047.54, 3776999.5	10.02163	10.05088	9.99592	10.00761	0.000972974	1.73E-03	3.23E-04	5.18E-05	3.08E-03	1.1E-06	3.2E-06	1.9E-06	1.7E-06	7.7E-07	3.2E-09	7.8E-08	4.0E-08	3.7E-08	1.1E-08	1.7E-07
623	UCAR	557067.54	3776999.53	557067.54, 3776999.5	9.08677	9.16504	8.63214	8.63892	0.000882211	1.58E-03	2.79E-04	4.47E-05	2.79E-03	9.7E-07	2.9E-06	1.7E-06	1.5E-06	7.0E-07	2.9E-09	7.1E-08	3.6E-08	3.3E-08	1.0E-08	1.5E-07
624	UCAR	557087.54	3776999.53	557087.54, 3776999.5	8.34601	8.42231	7.7403	7.74452	0.000810293	1.45E-03	2.50E-04	4.01E-05	2.55E-03	8.8E-07	2.7E-06	1.5E-06	1.4E-06	6.4E-07	2.7E-09	6.5E-08	3.3E-08	3.0E-08	9.2E-09	1.4E-07
625	UCAR	556927.54	3777019.53	556927.54, 3777019.5	41.88075	43.22754	35.61788	35.60713	0.004066094	7.46E-03	1.15E-03	1.84E-04	1.29E-02	4.5E-06	1.3E-05	7.8E-06	7.1E-06	3.2E-06	1.4E-08	3.3E-07	1.7E-07	1.5E-07	4.6E-08	7.1E-07
626	UCAR	556947.54	3777019.53	556947.54, 3777019.5	34.40974	35.20358	32.66585	32.69319	0.003340753	6.08E-03	1.06E-03	1.69E-04	1.06E-02	3.7E-06	1.1E-05	6.4E-06	5.8E-06	2.7E-06	1.1E-08	2.7E-07	1.4E-07	1.3E-07	3.8E-08	5.8E-07
627	UCAR	556967.54	3777019.53	556967.54, 3777019.5	25.0991	25.01414	26.50481	26.54962	0.002436807	4.32E-03	8.58E-04	1.37E-04	7.75E-03	2.7E-06	8.1E-06	4.7E-06	4.3E-06	1.9E-06	8.1E-09	2.0E-07	1.0E-07	9.2E-08	2.8E-08	4.3E-07
628	UCAR	556987.54	3777019.53	556987.54, 3777019.5	18.15361	17.79502	20.10513	20.14585	0.001762487	3.07E-03	6.51E-04	1.04E-04	5.59E-03	1.9E-06	5.8E-06	3.4E-06	3.1E-06	1.4E-06	5.9E-09	1.4E-07	7.3E-08	6.6E-08	2.0E-08	3.1E-07
629	UCAR	557007.54	3777019.53	557007.54, 3777019.5	14.25216	14.07975	15.25746	15.28524	0.001383705	2.43E-03	4.94E-04	7.91E-05	4.39E-03	1.5E-06	4.6E-06	2.7E-06	2.4E-06	1.1E-06	4.6E-09	1.1E-07	5.7E-08	5.2E-08	1.6E-08	2.4E-07
630	UCAR	557027.54	3777019.53	557027.54, 3777019.5	12.19652	12.21604	12.17155	12.18775	0.001184129	2.11E-03	3.94E-04	6.31E-05	3.75E-03	1.3E-06	3.9E-06	2.3E-06	2.1E-06	9.4E-07	3.9E-09	9.5E-08	4.9E-08	4.4E-08	1.3E-08	2.1E-07
631	UCAR	557047.54	3777019.53	557047.54, 3777019.5	10.9208	11.01104	10.31936	10.32842	0.001060272	1.90E-03	3.34E-04	5.35E-05	3.35E-03	1.2E-06	3.5E-06	2.0E-06	1.8E-06	8.4E-07	3.5E-09	8.5E-08	4.4E-08	4.0E-08	1.2E-08	1.8E-07
632	UCAR	557067.54	3777019.53	557067.54, 3777019.5	9.9332	10.02424	9.14698	9.15246	0.000964389	1.73E-03	2.96E-04	4.74E-05	3.04E-03	1.1E-06	3.2E-06	1.8E-06	1.7E-06	7.6E-07	3.2E-09	7.7E-08	4.0E-08	3.6E-08	1.1E-08	1.7E-07
633	UCAR	557087.54	3777019.53	557087.54, 3777019.5	9.07106	9.14381	8.30555	8.30944	0.000880686	1.58E-03	2.69E-04	4.30E-05	2.77E-03	9.6E-07	2.9E-06	1.7E-06	1.5E-06	6.9E-07	2.9E-09	7.0E-08	3.6E-08	3.3E-08	9.9E-09	1.5E-07
634	UCAR	556927.54	3777039.53	556927.54, 3777039.5	46.91301	48.24575	41.94421	41.9556	0.004554663	8.33E-03	1.36E-03	2.17E-04	1.45E-02	5.0E-06	1.5E-05	8.7E-06	7.9E-06	3.6E-06	1.5E-08	3.7E-07	1.9E-07	1.7E-07	5.2E-08	7.9E-07
635	UCAR	556947.54	3777039.53	556947.54, 3777039.5	34.9326	35.20785	35.38361	35.43638	0.003391516	6.08E-03	1.15E-03	1.83E-04	1.08E-02	3.7E-06	1.1E-05	6.5E-06	5.9E-06	2.7E-06	1.1E-08	2.7E-07	1.4E-07	1.3E-07	3.9E-08	5.9E-07
636	UCAR	556967.54	3777039.53	556967.54, 3777039.5	24.41626	24.03931	26.7168	26.77397	0.002370512	4.15E-03	8.65E-04	1.39E-04	7.52E-03	2.6E-06	7.9E-06	4.6E-06	4.1E-06	1.9E-06	7.9E-09	1.9E-07	9.8E-08	8.9E-08	2.7E-08	4.1E-07
637	UCAR	556987.54	3777039.53	556987.54, 3777039.5	18.29995	18.0476	19.66286	19.70348	0.001776695	3.12E-03	6.36E-04	1.02E-04	5.63E-03	1.9E-06	5.9E-06	3.4E-06	3.1E-06	1.4E-06	5.9E-09	1.4E-07	7.4E-08	6.7E-08	2.0E-08	3.1E-07
638	UCAR	557007.54	3777039.53	557007.54, 3777039.5	15.21419	15.21786	15.17862	15.20188	0.001477106	2.63E-03	4.91E-04	7.87E-05	4.67E-03	1.6E-06	4.9E-06	2.8E-06	2.6E-06	1.2E-06	4.9E-09	1.2E-07	6.1E-08	5.5E-08	1.7E-08	2.6E-07
639	UCAR	557027.54	3777039.53	557027.54, 3777039.5	13.4092	13.51638	12.58076	12.59321	0.001301865	2.33E-03	4.07E-04	6.52E-05	4.11E-03	1.4E-06	4.3E-06	2.5E-06	2.3E-06	1.0E-06	4.3E-09	1.0E-07	5.4E-08	4.9E-08	1.5E-08	2.3E-07
640	UCAR	557047.54	3777039.53	557047.54, 3777039.5	12.04813	12.16038	10.998	11.00528	0.001169722	2.10E-03	3.56E-04	5.70E-05	3.68E-03	1.3E-06	3.8E-06	2.2E-06	2.0E-06	9.2E-07	3.9E-09	9.3E-08	4.8E-08	4.4E-08	1.3E-08	2.0E-07
641	UCAR	557067.54	3777039.53	557067.54, 3777039.5	10.87289	10.96432	9.88507	9.8902	0.001055621	1.89E-03	3.20E-04	5.12E-05	3.32E-03	1.1E-06	3.5E-06	2.0E-06	1.8E-06	8.3E-07	3.5E-09	8.4E-08	4.3E-08	3.9E-08	1.2E-08	1.8E-07
642	UCAR	557087.54	3777039.53	557087.54, 3777039.5	9.82639	9.89869	8.98955	8.9938	0.000954019	1.71E-03	2.91E-04	4.66E-05	3.00E-03	1.0E-06	3.1E-06	1.8E-06	1.6E-06	7.5E-07	3.2E-09	7.6E-08	3.9E-08	3.6E-08	1.1E-08	1.6E-07
643	UCAR	557047.54	3777059.53	557047.54, 3777059.5	13.28873	13.40773	11.99055	11.99755	0.001290168	2.31E-03	3.88E-04	6.21E-05	4.05E-03	1.4E-06	4.2E-06	2.5E-06	2.2E-06	1.0E-06	4.3E-09	1.0E-07	5.3E-08	4.8E-08	1.5E-08	2.2E-07
644	UCAR	557067.54	3777059.53	557067.54, 3777059.5	11.83395	11.92991	10.77873	10.78454	0.001148928	2.06E-03	3.49E-04	5.58E-05	3.61E-03	1.3E-06	3.8E-06	2.2E-06	2.0E-06	9.0E-07	3.8E-09	9.2E-08	4.7E-08	4.3E-08	1.3E-08	2.0E-07
645	UCAR	557087.54	3777059.53	557087.54, 3777059.5	10.55993	10.63901	9.73622	9.7414	0.001025236	1.84E-03	3.15E-04	5.04E-05	3.23E-03	1.1E-06	3.4E-06	2.0E-06	1.8E-06	8.1E-07	3.4E-09	8.2E-08	4.2E-08	3.8E-08	1.2E-08	1.8E-07
646	UCAR	556919.02	3777174.93	556919.02, 3777174.9	117.43333	117.72474	100.12529	100.36929	0.011401298	2.03E-02	3.24E-03	5.20E-04	3.55E-02	1.2E-05	3.7E-05	2.1E-05	1.9E-05	8.9E-06	3.7E-08	9.0E-07	4.6E-07	4.2E-07	1.3E-07	1.9E-06
647	UCAR	556939.02	3777174.93	556939.02, 3777174.9	75.50464	75.23153	69.12806	69.27814	0.00733055	1.30E-02	2.24E-03	3.59E-04	2.29E-02	7.9E-06	2.4E-05	1.4E-05	1.3E-05	5.7E-06	2.4E-08	5.8E-07	3.0E-07	2.7E-07	8.2E-08	1.3E-06
648	UCAR	556919.02	3777194.93	556919.02, 3777194.9	127.7915	129.82344	123.00923	123.41078	0.012406946	2.24E-02	3.98E-03	6.39E-04	3.94E-02	1.4E-05	4.1E-05	2.4E-05	2.2E-05	9.9E-06	4.1E-08	1.0E-06	5.2E-07	4.7E-07	1.4E-07	2.2E-06
649	UCAR	556939.02	3777194.93	556939.02, 3777194.9	81.69809	82.56952	79.60602	79.81432	0.007931856	1.43E-02	2.58E-03	4.13E-04	2.52E-02	8.7E-06	2.6E-05	1.5E-05	1.4E-05	6.3E-06	2.6E-08	6.4E-07	3.3E-07	3.0E-07	9.0E-08	1.4E-06
650	UCAR	556919.02	3777214.93	556919.02, 3777214.9	103.69445	105.57219	130.77013	131.26562	0.010067426	1.82E-02	4.23E-03	6.80E-04	3.32E-02	1.1E-05	3.5E-05	2.0E-05	1.8E-05	8.3E-06	3.5E-08	8.4E-07	4.3E-07	3.9E-07	1.2E-07	1.8E-06
651	UCAR	556939.02	3777214.93	556939.02, 3777214.9	74.81155	75.97167	85.41465	85.66451	0.00726326	1.31E-02	2.76E-03	4.44E-04	2.36E-02	8.2E-06	2.5E-05	1.4E-05	1.3E-05	5.9E-06	2.5E-08	6.0E-07	3.1E-07	2.8E-07	8.5E-08	1.3E-06
652	UCAR	556919.02	3777234.93	556919.02, 3777234.9	72.17657	72.71187	113.88979	114.29725	0.007007437	1.26E-02	3.69E-03	5.92E-04	2.38E-02	8.3E-06	2.5E-05	1.4E-05	1.3E-05	6.0E-06	2.5E-08	6.1E-07	3.1E-07	2.8E-07	8.6E-08	1.3E-06
653	UCAR	556939.02	3777234.93	556939.02, 3777234.9	57.8305	58.30516	79.61493	79.84682	0.005614614	1.01E-02	2.58E-03	4.13E-04	1.87E-02	6.5E-06	2.0E-05	1.1E-05	1.0E-05	4.7E-06	2.0E-08	4.7E-07	2.4E-07	2.2E-07	6.7E-08	1.0E-06
654	UCAR	556919.02	3777254.93	556919.02, 3777254.9	51.15631	51.2127	80.23515	80.45889	0.004966634	8.84E-03	2.60E-03	4.17E-04	1.68E-02	5.8E-06	1.8E-05	1.0E-05	9.2E-06	4.2E-06	1.8E-08	4.3E-07	2.2E-07	2.0E-07	6.0E-08	9.2E-07
655	UCAR	556939.02	3777254.93	556939.02, 3777254.9	42.50843	42.59045	62.99656	63.15292	0.004127034	7.35E-03	2.04E-03	3.27E-04	1.38E-02	4.8E-06	1.4E-05	8.4E-06	7.6E-06	3.5E-06	1.5E-08	3.5E-07	1.8E-07	1.6E-07	5.0E-08	7.6E-07
656	UCAR	557023.57	3777171.57	557023.57, 3777171.5	23.17329	22.88457	22.87707	22.90532	0.002249835	3.95E-03	7.40E-04	1.19E-04	7.06E-03	2.4E-06	7.4E-06	4.3E-06	3.9E-06	1.8E-06	7.4E-09	1.8E-07	9.2E-08	8.4E-08	2.5E-08	3.9E-07
657	UCAR	557043.57	3777171.57	557043.57, 3777171.5	19.15179	18.89884	18.99525	19.01641	0.001859398	3.26E-03	6.15E-04	9.85E-05	5.83E-03	2.0E-06	6.1E-06	3.5E-06	3.2E-06	1.5E-06	6.1E-09	1.5E-07	7.6E-08	6.9E-08	2.1E-08	3.2E-07
658	UCAR	557063.57	3777171.57	557063.57, 3777171.5	16.10997	15.89141	16.04421	16.06101	0.001564075	2.74E-03	5.19E-04	8.32E-05	4.91E-03	1.7E-06	5.1E-06	3.0E-06	2.7E-06	1.2E-06	5.2E-09	1.2E-07	6.4E-08	5.8E-08	1.8E-08	2.7E-07
659	UCAR	557083.57	3777171.57	557083.57, 3777171.5	13.77756	13.58638	13.75611	13.76929	0.001337628	2.35E-03	4.45E-04	7.13E-05	4.20E-03	1.5E-06	4.4E-06	2.5E-06	2.3E-06	1.1E-06	4.4E-09	1.1E-07	5.5E-08	5.0E-08	1.5E-08	2.3E-07
660	UCAR	557023.57	3777191.57	557023.57, 3777191.5	24.85356	24.85341	24.43614	24.46761	0.002412968	4.29E-03	7.91E-04	1.27E-04	7.62E-03	2.6E-06	8.0E-06	4.6E-06	4.2E-06	1.9E-06	8.0E-09	1.9E-07	1.0E-07	9.0E-08	2.7E-08	4.2E-07
661	UCAR	557043.57	3777191.57	557043.57, 3777191.5	20.4364	20.42627	20.14253	20.16668	0.001984117	3.53E-03	6.52E-04	1.04E-04	6.27E-03	2.2E-06	6.5E-06	3.8E-06	3.4E-06	1.6E-06	6.6E-09	1.6E-07	8.2E-08	7.4E-08	2.2E-08	3.4E-07
662	UCAR	557063.57	3777191.57	557063.57, 3777191.5	17.11477	17.10117	16.89914	16.91758	0.001661629	2.95E-03	5.47E-04	8.76E-05	5.25E-03	1.8E-06	5.5E-06	3.2E-06	2.9E-06	1.3E-06	5.5E-09	1.3E-07	6.9E-08	6.2E-08	1.9E-08	2.9E-07
663	UCAR	557083.57	3777191.57	557083.57, 3777191.5	14.60786	14.58933	14.43798	14.45233	0.001418239	2.52E-03	4.67E-04	7.48E-05	4.48E-03	1.6E-06	4.7E-06	2.7E-06	2.5E-06	1.1E-06	4.7E-09	1.1E-07	5.9E-08	5.3E-08	1.6E-08	2.5E-07
664	UCAR	557023.57	3777211.57	557023.57, 3777211.5	25.71706	25.95949	25.85501	25.89001	0.002496803	4.48E-03	8.37E-04	1.34E-04	7.95E-03	2.8E-06	8.3E-06	4.8E-06	4.4E-06	2.0E-06	8.4E-09	2.0E-07	1.0E-07	9.4E-08	2.9E-08	4.4E-07
665	UCAR	557043.57	3777211.57	557043.57, 3777211.5	21.25488	21.44574	21.25444	21.28106	0.002063581	3.70E-03	6.88E-04	1.10E-04	6.56E-03	2.3E-06	6.9E-06	4.0E-06	3.6E-06	1.6E-06	6.9E-09	1.7E-07	8.6E-08	7.8E-08	2.4E-08	3.6E-07
666	UCAR	557063.57	3777211.57	557063.57, 3777211.5	17.87271	18.02806	17.80266	17.8228	0.001735215	3.11E-03	5.76E-04	9.23E-05	5.52E-03	1.9E-06	5.8E-06	3.3E-06	3.0E-06	1.4E-06	5.8E-09	1.4E-07	7.2E-08	6.5E-08	2.0E-08	3.0E-07
667	UCAR	557083.57	3777211.57	557083.57, 3777211.5	15.12972	15.26526	15.0426	15.05837	0.001468905	2.63E-03	4.87E-04	7.80E-05	4.67E-03	1.6E-06	4.9E-06	2.8E-06	2.6E-06	1.2E-06	4.9E-09	1.2E-07	6.1E-08	5.5E-08	1.7E-08	2.6E-07
668	UCAR	557023.57	3777231.57	557023.57, 3777231.5	24.8828	25.07937	26.4812	26.52021	0.002415807	4.33E-03	8.57E-04	1.37E-04	7.74E-03	2.7E-06	8.1E-06	4.7E-06	4.2E-06	1.9E-06	8.1E-09	2.0E-07	1.0E-07	9.2E-08	2.8E-08	4.3E-07
669	UCAR	557043.57	3777231.57	557043.57, 3777231.5	20.90951	21.07253	21.85127	21.87985	0.00203005	3.64E-03	7.07E-04	1.13E-04	6.49E-03	2.2E-06	6.8E-06	3.9E-06	3.6E-06	1.6E-06	6.8E-09	1.6E-07	8.5E-08	7.7E-08	2.3E-08	3.6E-07
670	UCAR	557063.57	3777231.57	557063.57, 3777231.5	17.79432	17.93651	18.35187	18.37347	0.001727605	3.10E-03	5.94E-04	9.51E-05	5.51E-03	1.9E-06	5.8E-06	3.3E-06	3.0E-06	1.4E-06	5.8E-09	1.4E-07	7.2E-08	6.5E-08	2.0E-08	3.0E-07
671	UCAR	557083.57	3777231.57	557083.57, 3777231.5	15.03083	15.17187	15.37321	15.39018	0.001459304	2.62E-03	4.98E-04	7.97E-05	4.66E-03	1.6E-06	4.9E-06	2.8E-06	2.6E-06	1.2E-06	4.9E-09	1.2E-07	6.1E-08	5.5E-08	1.7E-08	2.6E-07
672	UCAR	557023.57	3777251.57	557023.57, 3777251.5	22.52766	22.64944	25.63878	25.67708	0.002187152	3.91E-03	8.30E-04	1.33E-04	7.06E-03	2.4E-06	7.4E-06	4.3E-06	3.9E-06	1.8E-06	7.4E-09	1.8E-07	9.2E-08	8.4E-08	2.5E-08	3.9E-07
673	UCAR	557043.57	3777251.57	557043.57, 3777251.5	19.40038	19.49441	21.45314	21.48186	0.001883533	3.36E-03	6.94E-04	1.11E-04	6.05E-03	2.1E-06	6.3E-06	3.7E-06	3.3E-06	1.5E-06	6.4E-09	1.5E-07	7.9E-08	7.2E-08	2.2E-08	3.3E-07
674	UCAR	557063.57	3777251.57	557063.57, 3777251.5	16.8418	16.91561	18.22049	18.24247	0.001635127	2.92E-03	5.90E-04	9.45E-05	5.24E-03	1.8E-06	5.5E-06	3.2E-06	2.9E-06	1.3E-06	5.5E-09	1.3E-07	6.8E-08	6.2E-08	1.9E-08	2.9E-07
675	UCAR	557083.57	3777251.57	557083.57, 3777251.5	14.28697	14.36711	15.21539	15.23271	0.001387085	2.48E-03	4.92E-04	7.89E-05	4.44E-03	1.5E-06	4.6E-06	2.7E-06	2.4E-06	1.1E-06	4.7E-09	1.1E-07	5.8E-08	5.3E-08	1.6E-08	2.4E-07
676	UCAR	556249.05	3776972.85	556249.05, 3776972.8	1.30337	1.35089	1.10937	1.1086	0.000126541	2.33E-04	3.59E-05	5.74E-06	4.01E-04	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.2E-10	1.0E-08	5.2E-09	4.8E-09	1.4E-09	2.2E-08
677	UCAR	556269.05	3776972.85	556269.05, 3776972.8	1.34523	1.38899	1.15189	1.15107	0.000130605	2.40E-04	3.73E-05	5.96E-06	4.14E-04	1.4E-07	4.3E-07	2.5E-07	2.3E-07	1.0E-07	4.3E-10	1.0E-08	5.4E-09	4.9E-09	1.5E-09	2.3E-08
678	UCAR	556229.05	3776992.85	556229.05, 3776992.8	1.42879	1.42554	1.11424	1.11348	0.000133718	2.46E-04	3.61E-05	5.77E-06	4.27E-04	1.5E-07	4.5E-07	2.6E-07	2.4E-07	1.1E-07	4.5E-10	1.1E-08	5.6E-09	5.1E-09	1.5E-09	2.4E-08
679	UCAR	556249.05	3776992.85	556249.05, 3776992.8	1.35056	1.40318	1.14365	1.14286	0.000131122	2.42E-04	3.70E-05	5.92E-06	4.16E-04	1.4E-07	4.4E-07	2.5E-07	2.3E-07	1.0E-07	4.4E-10	1.1E-08	5.4E-09	4.9E-09	1.5E-09	2.3E-08
680	UCAR	556269.05	3776992.85	556269.05, 3776992.8	1.41338	1.46737	1.19644	1.19559	0.000137221	2.53E-04	3.87E-05	6.19E-06	4.35E-04	1.5E-07	4.6E-07	2.6E-07	2.4E-07	1.1E-07	4.6E-10	1.1E-08	5.7E-09	5.2E-09	1.6E-09	2.4E-08
681	UCAR	556289.05	3776992.85	556289.05, 3776992.8	1.46486	1.51632	1.24525	1.24433	0.000142219	2.62E-04	4.03E-05	6.44E-06	4.51E-04	1.6E-07	4.7E-07	2.7E-07	2.5E-07	1.1E-07	4.7E-10	1.1E-08	5.9E-09	5.3E-09	1.6E-09	2.5E-08
682	UCAR	556309.05	3776992.85	556309.05, 3776992.8	1.52805	1.5781	1.30217	1.30118	0.000148354	2.72E-04	4.21E-05	6.74E-06	4.70E-04	1.6E-07	4.9E-07	2.8E-07	2.6E-07	1.2E-07	4.9E-10	1.2E-08	6.1E-09	5.6E-09	1.7E-09	2.6E-08
683	UCAR	556329.05	3776992.85	556329.05, 3776992.8	1.56928	1.61253	1.34723	1.34617	0.000152357	2.78E-04	4.36E-05	6.97E-06	4.81E-04	1.7E-07	5.0E-07	2.9E-07	2.6E-07	1.2E-07	5.1E-10	1.2E-08	6.3E-09	5.7E-09	1.7E-09	2.6E-08
684	UCAR	556209.05	3777012.85	556209.05, 3777012.8	1.40765	1.40123	1.13049	1.12972	0.000136665	2.42E-04	3.66E-05	5.85E-06	4.21E-04	1.5E-07	4.4E-07	2.5E-07	2.3E-07	1.1E-07	4.4E-10	1.1E-08	5.5E-09	5.0E-09	1.5E-09	2.3E-08
685	UCAR	556229.05	3777012.85	556229.05, 3777012.8	1.46972	1.46403	1.14403	1.14325	0.000142691	2.53E-04	3.70E-05	5.92E-06	4.38E-04	1.5E-07	4.6E-07	2.7E-07	2.4E-07	1.1E-07	4.6E-10	1.1E-08	5.7E-09	5.2E-09	1.6E-09	2.4E-08
686	UCAR	556249.05	3777012.85	556249.05, 3777012.8	1.54072	1.53555	1.18854	1.18771	0.000149585	2.65E-04	3.85E-05	6.15E-06	4.59E-04	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.1E-07	4.8E-10	1.2E-08	6.0E-09	5.4E-09	1.6E-09	2.5E-08
687	UCAR	556269.05	3777012.85	556269.05, 3777012.8	1.61862	1.61369	1.24363	1.24274	0.000157148	2.79E-04	4.02E-05	6.43E-06	4.82E-04	1.7E-07	5.0E-07	2.9E-07	2.6E-07	1.2E-07	5.1E-10	1.2E-08	6.3E-09	5.7E-09	1.7E-09	2.7E-08
688	UCAR	556289.05	3777012.85	556289.05, 3777012.8	1.6786	1.66971	1.30328	1.30232	0.000162971	2.88E-04	4.22E-05	6.74E-06	5.00E-04	1.7E-07	5.2E-07	3.0E-07	2.7E-07	1.3E-07	5.3E-10	1.3E-08	6.5E-09	5.9E-09	1.8E-09	2.7E-08
689	UCAR	556309.05	3777012.85	556309.05, 3777012.8	1.60657	1.66628	1.35593	1.35491	0.000155978	2.88E-04	4.39E-05	7.02E-06	4.94E-04	1.7E-07	5.2E-07	3.0E-07	2.7E-07	1.2E-07	5.2E-10	1.3E-08	6.5E-09	5.9E-09	1.8E-09	2.7E-08
690	UCAR	556329.05	3777012.85	556329.05, 3777012.8	1.69254	1.75461	1.42687	1.42576	0.000164324	3.03E-04	4.62E-05	7.38E-06	5.21E-04	1.8E-07	5.4E-07	3.2E-07	2.9E-07	1.3E-07	5.5E-10	1.3E-08	6.8E-09	6.2E-09	1.9E-09	2.9E-08
691	UCAR	556209.05	3777032.85	556209.05, 3777032.8	1.44845	1.43716	1.15091	1.15013	0.000140626	2.48E-04	3.72E-05	5.96E-06	4.32E-04	1.5E-07	4.5E-07	2.6E-07	2.4E-07	1.1E-07	4.5E-10	1.1E-08	5.6E-09	5.1E-09	1.5E-09	2.4E-08
692	UCAR	556229.05	3777032.85	556229.05, 3777032.8	1.51665	1.50592	1.19068	1.18986	0.000147248	2.60E-04	3.85E-05	6.16E-06	4.52E-04	1.6E-07	4.7E-07	2.7E-07	2.5E-07	1.1E-07	4.7E-10	1.1E-08	5.9E-09	5.4E-09	1.6E-09	2.5E-08
693	UCAR	556249.05	3777032.85	556249.05, 3777032.8	1.59136	1.58128	1.24037	1.2395	0.000154501	2.73E-04	4.01E-05	6.42E-06	4.74E-04	1.6E-07	5.0E-07	2.9E-07	2.6E-07	1.2E-07	5.0E-10	1.2E-08	6.2E-09	5.6E-09	1.7E-09	2.6E-08
694	UCAR	556269.05	3777032.85	556269.05, 3777032.8	1.67257	1.66322	1.29578	1.29485	0.000162385	2.87E-04	4.19E-05	6.70E-06	4.98E-04

Operational Risk - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID			Concentration [µg/m^3] at 1 g/s				Unmitigated					Residential Dose					Risk by Age Group					
			Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point	Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point												
X	Y	X, Y	(Volume Source)	Source)	Source)	Source)	(Volume Source)	Source)	Source)	Source)	Combined	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
745 UCAR	557630.26	3776508.23 557630.26, 3776508.2	1.37154	1.3625	1.39235	1.39263	0.000133159	2.35E-04	4.51E-05	7.21E-06	4.21E-04	1.5E-07	4.4E-07	2.5E-07	2.3E-07	1.1E-07	4.4E-10	1.1E-08	5.5E-09	5.0E-09	1.5E-09	2.3E-08
746 UCAR	557650.26	3776508.23 557650.26, 3776508.2	1.32924	1.31836	1.35452	1.3548	0.000129052	2.28E-04	4.38E-05	7.02E-06	4.07E-04	1.4E-07	4.3E-07	2.5E-07	2.2E-07	1.0E-07	4.3E-10	1.0E-08	5.3E-09	4.8E-09	1.5E-09	2.2E-08
747 UCAR	557670.26	3776508.23 557670.26, 3776508.2	1.28659	1.27385	1.31653	1.3168	0.000124912	2.20E-04	4.26E-05	6.82E-06	3.94E-04	1.4E-07	4.1E-07	2.4E-07	2.2E-07	9.9E-08	4.1E-10	1.0E-08	5.2E-09	4.7E-09	1.4E-09	2.2E-08
748 UCAR	557690.26	3776508.23 557690.26, 3776508.2	1.24464	1.23013	1.27902	1.27929	0.000120839	2.12E-04	4.14E-05	6.62E-06	3.81E-04	1.3E-07	4.0E-07	2.3E-07	2.1E-07	9.5E-08	4.0E-10	9.7E-09	5.0E-09	4.5E-09	1.4E-09	2.1E-08
749 UCAR	557510.26	3776528.23 557510.26, 3776528.2	1.67778	1.68387	1.66221	1.6625	0.000162891	2.91E-04	5.38E-05	8.61E-06	5.16E-04	1.8E-07	5.4E-07	3.1E-07	2.8E-07	1.3E-07	5.4E-10	1.3E-08	6.7E-09	6.1E-09	1.9E-09	2.8E-08
750 UCAR	557530.26	3776528.23 557530.26, 3776528.2	1.62597	1.62785	1.6204	1.62069	0.000157861	2.81E-04	5.24E-05	8.39E-06	5.00E-04	1.7E-07	5.2E-07	3.0E-07	2.7E-07	1.3E-07	5.3E-10	1.3E-08	6.5E-09	5.9E-09	1.8E-09	2.7E-08
751 UCAR	557550.26	3776528.23 557550.26, 3776528.2	1.57482	1.57283	1.57866	1.57896	0.000152895	2.71E-04	5.11E-05	8.18E-06	4.84E-04	1.7E-07	5.1E-07	2.9E-07	2.7E-07	1.2E-07	5.1E-10	1.2E-08	6.3E-09	5.7E-09	1.7E-09	2.7E-08
752 UCAR	557570.26	3776528.23 557570.26, 3776528.2	1.52213	1.5163	1.53582	1.53613	0.00014778	2.62E-04	4.97E-05	7.95E-06	4.67E-04	1.6E-07	4.9E-07	2.8E-07	2.6E-07	1.2E-07	4.9E-10	1.2E-08	6.1E-09	5.5E-09	1.7E-09	2.6E-08
753 UCAR	557590.26	3776528.23 557590.26, 3776528.2	1.47375	1.46501	1.49449	1.4948	0.000143083	2.53E-04	4.84E-05	7.74E-06	4.52E-04	1.6E-07	4.7E-07	2.7E-07	2.5E-07	1.1E-07	4.8E-10	1.1E-08	5.9E-09	5.4E-09	1.6E-09	2.5E-08
754 UCAR	557610.26	3776528.23 557610.26, 3776528.2	1.42697	1.41581	1.45353	1.45384	0.000138541	2.44E-04	4.70E-05	7.53E-06	4.37E-04	1.5E-07	4.6E-07	2.6E-07	2.4E-07	1.1E-07	4.6E-10	1.1E-08	5.7E-09	5.2E-09	1.6E-09	2.4E-08
755 UCAR	557630.26	3776528.23 557630.26, 3776528.2	1.38226	1.36918	1.41327	1.41357	0.0001342	2.36E-04	4.57E-05	7.32E-06	4.24E-04	1.5E-07	4.4E-07	2.6E-07	2.3E-07	1.1E-07	4.5E-10	1.1E-08	5.5E-09	5.0E-09	1.5E-09	2.3E-08
756 UCAR	557650.26	3776528.23 557650.26, 3776528.2	1.33957	1.32502	1.37384	1.37413	0.000130055	2.29E-04	4.45E-05	7.12E-06	4.10E-04	1.4E-07	4.3E-07	2.5E-07	2.3E-07	1.0E-07	4.3E-10	1.0E-08	5.4E-09	4.9E-09	1.5E-09	2.3E-08
757 UCAR	557670.26	3776528.23 557670.26, 3776528.2	1.29513	1.27875	1.33389	1.33418	0.000125741	2.21E-04	4.32E-05	6.91E-06	3.97E-04	1.4E-07	4.1E-07	2.4E-07	2.2E-07	9.9E-08	4.2E-10	1.0E-08	5.2E-09	4.7E-09	1.4E-09	2.2E-08
758 UCAR	557690.26	3776528.23 557690.26, 3776528.2	1.25403	1.23637	1.29567	1.29595	0.000121751	2.13E-04	4.19E-05	6.71E-06	3.84E-04	1.3E-07	4.0E-07	2.3E-07	2.1E-07	9.6E-08	4.0E-10	9.7E-09	5.0E-09	4.5E-09	1.4E-09	2.1E-08
759 UCAR	557510.26	3776548.23 557510.26, 3776548.2	1.69842	1.69861	1.69818	1.6985	0.000164895	2.93E-04	5.50E-05	8.79E-06	5.22E-04	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	5.5E-10	1.3E-08	6.8E-09	6.2E-09	1.9E-09	2.9E-08
760 UCAR	557530.26	3776548.23 557530.26, 3776548.2	1.64577	1.64219	1.6542	1.65453	0.000159784	2.83E-04	5.35E-05	8.57E-06	5.05E-04	1.7E-07	5.3E-07	3.1E-07	2.8E-07	1.3E-07	5.3E-10	1.3E-08	6.6E-09	6.0E-09	1.8E-09	2.8E-08
761 UCAR	557550.26	3776548.23 557550.26, 3776548.2	1.5868	1.57866	1.60711	1.60745	0.000154058	2.72E-04	5.20E-05	8.32E-06	4.87E-04	1.7E-07	5.1E-07	2.9E-07	2.7E-07	1.2E-07	5.1E-10	1.2E-08	6.4E-09	5.8E-09	1.7E-09	2.7E-08
762 UCAR	557570.26	3776548.23 557570.26, 3776548.2	1.53144	1.51957	1.56124	1.56158	0.000148684	2.62E-04	5.05E-05	8.09E-06	4.70E-04	1.6E-07	4.9E-07	2.8E-07	2.6E-07	1.2E-07	4.9E-10	1.2E-08	6.1E-09	5.6E-09	1.7E-09	2.6E-08
763 UCAR	557590.26	3776548.23 557590.26, 3776548.2	1.48254	1.46824	1.51783	1.51817	0.000143936	2.53E-04	4.91E-05	7.86E-06	4.54E-04	1.6E-07	4.7E-07	2.7E-07	2.5E-07	1.1E-07	4.8E-10	1.2E-08	5.9E-09	5.4E-09	1.6E-09	2.5E-08
764 UCAR	557610.26	3776548.23 557610.26, 3776548.2	1.43413	1.41763	1.47447	1.4748	0.000139236	2.45E-04	4.77E-05	7.64E-06	4.39E-04	1.5E-07	4.6E-07	2.7E-07	2.4E-07	1.1E-07	4.6E-10	1.1E-08	5.7E-09	5.2E-09	1.6E-09	2.4E-08
765 UCAR	557630.26	3776548.23 557630.26, 3776548.2	1.38855	1.37045	1.43231	1.43263	0.000134811	2.37E-04	4.64E-05	7.42E-06	4.25E-04	1.5E-07	4.4E-07	2.6E-07	2.3E-07	1.1E-07	4.5E-10	1.1E-08	5.6E-09	5.0E-09	1.5E-09	2.3E-08
766 UCAR	557650.26	3776548.23 557650.26, 3776548.2	1.34602	1.32691	1.39157	1.39188	0.000130682	2.29E-04	4.50E-05	7.21E-06	4.12E-04	1.4E-07	4.3E-07	2.5E-07	2.3E-07	1.0E-07	4.3E-10	1.0E-08	5.4E-09	4.9E-09	1.5E-09	2.3E-08
767 UCAR	557670.26	3776548.23 557670.26, 3776548.2	1.30253	1.28211	1.35086	1.35117	0.000126459	2.21E-04	4.37E-05	7.00E-06	3.98E-04	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.2E-10	1.0E-08	5.2E-09	4.7E-09	1.4E-09	2.2E-08
768 UCAR	557690.26	3776548.23 557690.26, 3776548.2	1.26251	1.24136	1.31204	1.31233	0.000122574	2.14E-04	4.25E-05	6.80E-06	3.86E-04	1.3E-07	4.0E-07	2.3E-07	2.1E-07	9.7E-08	4.1E-10	9.8E-09	5.0E-09	4.6E-09	1.4E-09	2.1E-08
769 UCAR	557510.26	3776568.23 557510.26, 3776568.2	1.71493	1.70821	1.73292	1.73328	0.000166498	2.95E-04	5.61E-05	8.97E-06	5.26E-04	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	5.5E-10	1.3E-08	6.9E-09	6.2E-09	1.9E-09	2.9E-08
770 UCAR	557530.26	3776568.23 557530.26, 3776568.2	1.65823	1.64771	1.68507	1.68544	0.000160993	2.84E-04	5.45E-05	8.73E-06	5.09E-04	1.8E-07	5.3E-07	3.1E-07	2.8E-07	1.3E-07	5.3E-10	1.3E-08	6.6E-09	6.0E-09	1.8E-09	2.8E-08
771 UCAR	557550.26	3776568.23 557550.26, 3776568.2	1.59827	1.58363	1.63553	1.6359	0.000155172	2.73E-04	5.29E-05	8.47E-06	4.90E-04	1.7E-07	5.1E-07	3.0E-07	2.7E-07	1.2E-07	5.1E-10	1.2E-08	6.4E-09	5.8E-09	1.8E-09	2.7E-08
772 UCAR	557570.26	3776568.23 557570.26, 3776568.2	1.53921	1.52073	1.58616	1.58654	0.000149438	2.62E-04	5.13E-05	8.22E-06	4.71E-04	1.6E-07	4.9E-07	2.9E-07	2.6E-07	1.2E-07	5.0E-10	1.2E-08	6.2E-09	5.6E-09	1.7E-09	2.6E-08
773 UCAR	557590.26	3776568.23 557590.26, 3776568.2	1.48785	1.46708	1.53985	1.54022	0.000144452	2.53E-04	4.98E-05	7.98E-06	4.55E-04	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.1E-07	4.8E-10	1.2E-08	6.0E-09	5.4E-09	1.6E-09	2.5E-08
774 UCAR	557610.26	3776568.23 557610.26, 3776568.2	1.43844	1.41579	1.49442	1.49478	0.000139654	2.44E-04	4.84E-05	7.74E-06	4.40E-04	1.5E-07	4.6E-07	2.7E-07	2.4E-07	1.1E-07	4.6E-10	1.1E-08	5.8E-09	5.2E-09	1.6E-09	2.4E-08
775 UCAR	557630.26	3776568.23 557630.26, 3776568.2	1.39246	1.36859	1.45061	1.45096	0.00013519	2.36E-04	4.69E-05	7.51E-06	4.26E-04	1.5E-07	4.5E-07	2.6E-07	2.3E-07	1.1E-07	4.5E-10	1.1E-08	5.6E-09	5.0E-09	1.5E-09	2.3E-08
776 UCAR	557650.26	3776568.23 557650.26, 3776568.2	1.35122	1.32704	1.40903	1.40935	0.000131186	2.29E-04	4.56E-05	7.30E-06	4.13E-04	1.4E-07	4.3E-07	2.5E-07	2.3E-07	1.0E-07	4.3E-10	1.0E-08	5.4E-09	4.9E-09	1.5E-09	2.3E-08
777 UCAR	557670.26	3776568.23 557670.26, 3776568.2	1.30808	1.28304	1.36739	1.3677	0.000126998	2.21E-04	4.43E-05	7.08E-06	4.00E-04	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.2E-10	1.0E-08	5.2E-09	4.7E-09	1.4E-09	2.2E-08
778 UCAR	557690.26	3776568.23 557690.26, 3776568.2	1.26726	1.24166	1.32737	1.32767	0.000123035	2.14E-04	4.30E-05	6.87E-06	3.87E-04	1.3E-07	4.0E-07	2.3E-07	2.1E-07	9.7E-08	4.1E-10	9.8E-09	5.1E-09	4.6E-09	1.4E-09	2.1E-08
779 UCAR	557510.26	3776588.23 557510.26, 3776588.2	1.72573	1.7107	1.76578	1.76619	0.000167547	2.95E-04	5.71E-05	9.15E-06	5.29E-04	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	5.6E-10	1.3E-08	6.9E-09	6.3E-09	1.9E-09	2.9E-08
780 UCAR	557530.26	3776588.23 557530.26, 3776588.2	1.66811	1.64986	1.71517	1.71558	0.000161952	2.85E-04	5.55E-05	8.88E-06	5.11E-04	1.8E-07	5.3E-07	3.1E-07	2.8E-07	1.3E-07	5.4E-10	1.3E-08	6.7E-09	6.1E-09	1.8E-09	2.8E-08
781 UCAR	557550.26	3776588.23 557550.26, 3776588.2	1.606	1.58386	1.6626	1.66301	0.000155922	2.73E-04	5.38E-05	8.61E-06	4.92E-04	1.7E-07	5.1E-07	3.0E-07	2.7E-07	1.2E-07	5.2E-10	1.2E-08	6.4E-09	5.8E-09	1.8E-09	2.7E-08
782 UCAR	557570.26	3776588.23 557570.26, 3776588.2	1.54312	1.51697	1.60982	1.61023	0.000149818	2.62E-04	5.21E-05	8.34E-06	4.72E-04	1.6E-07	4.9E-07	2.9E-07	2.6E-07	1.2E-07	5.0E-10	1.2E-08	6.2E-09	5.6E-09	1.7E-09	2.6E-08
783 UCAR	557590.26	3776588.23 557590.26, 3776588.2	1.48759	1.45886	1.56012	1.56051	0.000144426	2.52E-04	5.05E-05	8.08E-06	4.55E-04	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.1E-07	4.8E-10	1.2E-08	5.9E-09	5.4E-09	1.6E-09	2.5E-08
784 UCAR	557610.26	3776588.23 557610.26, 3776588.2	1.43802	1.40791	1.51302	1.51341	0.000139614	2.43E-04	4.90E-05	7.84E-06	4.39E-04	1.5E-07	4.6E-07	2.7E-07	2.4E-07	1.1E-07	4.6E-10	1.1E-08	5.7E-09	5.2E-09	1.6E-09	2.4E-08
785 UCAR	557630.26	3776588.23 557630.26, 3776588.2	1.39564	1.36557	1.46904	1.46941	0.000135499	2.36E-04	4.75E-05	7.61E-06	4.26E-04	1.5E-07	4.5E-07	2.6E-07	2.3E-07	1.1E-07	4.5E-10	1.1E-08	5.6E-09	5.1E-09	1.5E-09	2.3E-08
786 UCAR	557650.26	3776588.23 557650.26, 3776588.2	1.35423	1.32428	1.42612	1.42646	0.000131479	2.29E-04	4.62E-05	7.39E-06	4.14E-04	1.4E-07	4.3E-07	2.5E-07	2.3E-07	1.0E-07	4.3E-10	1.0E-08	5.4E-09	4.9E-09	1.5E-09	2.3E-08
787 UCAR	557670.26	3776588.23 557670.26, 3776588.2	1.31352	1.28366	1.38429	1.38462	0.000127526	2.22E-04	4.48E-05	7.17E-06	4.01E-04	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.2E-10	1.0E-08	5.2E-09	4.8E-09	1.4E-09	2.2E-08
788 UCAR	557690.26	3776588.23 557690.26, 3776588.2	1.275	1.24548	1.34416	1.34448	0.000123786	2.15E-04	4.35E-05	6.96E-06	3.89E-04	1.3E-07	4.1E-07	2.4E-07	2.1E-07	9.7E-08	4.1E-10	9.9E-09	5.1E-09	4.6E-09	1.4E-09	2.1E-08
789 UCAR	557510.26	3776608.23 557510.26, 3776608.2	1.73023	1.70521	1.79673	1.79719	0.000167984	2.94E-04	5.81E-05	9.31E-06	5.30E-04	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	5.6E-10	1.3E-08	6.9E-09	6.3E-09	1.9E-09	2.9E-08
790 UCAR	557530.26	3776608.23 557530.26, 3776608.2	1.67151	1.64386	1.74314	1.74359	0.000162283	2.84E-04	5.64E-05	9.03E-06	5.11E-04	1.8E-07	5.3E-07	3.1E-07	2.8E-07	1.3E-07	5.4E-10	1.3E-08	6.7E-09	6.1E-09	1.8E-09	2.8E-08
791 UCAR	557550.26	3776608.23 557550.26, 3776608.2	1.60671	1.57527	1.68736	1.68781	0.000155991	2.72E-04	5.46E-05	8.74E-06	4.91E-04	1.7E-07	5.1E-07	3.0E-07	2.7E-07	1.2E-07	5.2E-10	1.2E-08	6.4E-09	5.8E-09	1.8E-09	2.7E-08
792 UCAR	557570.26	3776608.23 557570.26, 3776608.2	1.54468	1.50993	1.63294	1.63337	0.000149969	2.61E-04	5.28E-05	8.46E-06	4.72E-04	1.6E-07	4.9E-07	2.9E-07	2.6E-07	1.2E-07	5.0E-10	1.2E-08	6.2E-09	5.6E-09	1.7E-09	2.6E-08
793 UCAR	557590.26	3776608.23 557590.26, 3776608.2	1.48598	1.44848	1.58029	1.58072	0.00014427	2.50E-04	5.11E-05	8.18E-06	4.54E-04	1.6E-07	4.7E-07	2.7E-07	2.5E-07	1.1E-07	4.8E-10	1.2E-08	5.9E-09	5.4E-09	1.6E-09	2.5E-08
794 UCAR	557610.26	3776608.23 557610.26, 3776608.2	1.43677	1.39852	1.53175	1.53216	0.000139492	2.41E-04	4.96E-05	7.93E-06	4.38E-04	1.5E-07	4.6E-07	2.7E-07	2.4E-07	1.1E-07	4.6E-10	1.1E-08	5.7E-09	5.2E-09	1.6E-09	2.4E-08
795 UCAR	557630.26	3776608.23 557630.26, 3776608.2	1.39541	1.35805	1.48675	1.48713	0.000135477	2.34E-04	4.81E-05	7.70E-06	4.26E-04	1.5E-07	4.4E-07	2.6E-07	2.3E-07	1.1E-07	4.5E-10	1.1E-08	5.6E-09	5.0E-09	1.5E-09	2.3E-08
796 UCAR	557650.26	3776608.23 557650.26, 3776608.2	1.35423	1.31758	1.44274	1.44311	0.000131479	2.27E-04	4.67E-05	7.47E-06	4.13E-04	1.4E-07	4.3E-07	2.5E-07	2.3E-07	1.0E-07	4.3E-10	1.0E-08	5.4E-09	4.9E-09	1.5E-09	2.3E-08
797 UCAR	557670.26	3776608.23 557670.26, 3776608.2	1.31357	1.27747	1.39997	1.40032	0.000127531	2.20E-04	4.53E-05	7.25E-06	4.01E-04	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.2E-10	1.0E-08	5.2E-09	4.7E-09	1.4E-09	2.2E-08
798 UCAR	557690.26	3776608.23 557690.26, 3776608.2	1.27483	1.23945	1.35897	1.3593	0.00012377	2.14E-04	4.40E-05	7.04E-06	3.89E-04	1.3E-07	4.1E-07	2.4E-07	2.1E-07	9.7E-08	4.1E-10	9.9E-09	5.1E-09	4.6E-09	1.4E-09	2.1E-08
799 UCAR	557510.26	3776628.23 557510.26, 3776628.2	1.73021	1.69354	1.8263	1.82681	0.000167982	2.92E-04	5.91E-05	9.46E-06	5.29E-04	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	5.6E-10	1.3E-08	6.9E-09	6.3E-09	1.9E-09	2.9E-08
800 UCAR	557530.26	3776628.23 557530.26, 3776628.2	1.66838	1.62926	1.76893	1.76943	0.000161979	2.81E-04	5.72E-05	9.16E-06	5.10E-04	1.8E-07	5.3E-07	3.1E-07	2.8E-07	1.3E-07	5.4E-10	1.3E-08	6.7E-09	6.0E-09	1.8E-09	2.8E-08
801 UCAR	557550.26	3776628.23 557550.26, 3776628.2	1.60059	1.55756	1.70975	1.71024	0.000155397	2.69E-04	5.53E-05	8.86E-06	4.88E-04	1.7E-07	5.1E-07	3.0E-07	2.7E-07	1.2E-07	5.1E-10	1.2E-08	6.4E-09	5.8E-09	1.8E-09	2.7E-08
802 UCAR	557570.26	3776628.23 557570.26, 3776628.2	1.54994	1.5069	1.6574	1.65787	0.000150348	2.60E-04	5.36E-05	8.58E-06	4.73E-04	1.6E-07	4.9E-07	2.9E-07	2.6E-07	1.2E-07	5.0E-10	1.2E-08	6.2E-09	5.6E-09	1.7E-09	2.6E-08
803 UCAR	557590.26	3776628.23 557590.26, 3776628.2	1.48314	1.43589	1.60014	1.60061	0.000143994	2.48E-04	5.18E-05	8.29E-06	4.52E-04	1.6E-07	4.7E-07	2.7E-07	2.5E-07	1.1E-07	4.7E-10	1.1E-08	5.9E-09	5.4E-09	1.6E-09	2.5E-08
804 UCAR	557610.26	3776628.23 557610.26, 3776628.2	1.43414	1.38681	1.55019	1.55063	0.000139237	2.39E-04	5.02E-05	8.03E-06	4.37E-04	1.5E-07	4.6E-07	2.6E-07	2.4E-07	1.1E-07	4.6E-10	1.1E-08	5.7E-09	5.2E-09	1.6E-09	2.4E-08
805 UCAR	557630.26	3776628.23 557630.26, 3776628.2	1.39102	1.3448	1.50333	1.50375	0.000135051	2.32E-04	4.87E-05	7.79E-06	4.24E-04	1.5E-07	4.4E-07	2.6E-07	2.3E-07	1.1E-07	4.5E-10	1.1E-08	5.5E-09	5.0E-09	1.5E-09	2.3E-08
806 UCAR	557650.26	3776628.23 557650.26, 3776628.2	1.3535	1.30952	1.45948	1.45987	0.000131408	2.26E-04	4.72E-05	7.56E-06	4.12E-04	1.4E-07	4.3E-07	2.5E-07	2.3E-07	1.0E-07	4.3E-10	1.0E-08	5.4E-09	4.9E-09	1.5E-09	2.3E-08
807 UCAR	557670.26	3776628.23 557670.26, 3776628.2	1.31381	1.27115	1.41611	1.41648	0.000127554	2.19E-04	4.58E-05	7.33E-06	4.00E-04	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.2E-10	1.0E-08	5.2E-09	4.7E-09	1.4E-09	2.2E-08
808 UCAR	557690.26	3776628.23 557690.26, 3776628.2	1.27698	1.236	1.37491	1.37527	0.000123979	2.13E-04	4.45E-05	7.12E-06	3.89E-04	1.3E-07	4.1E-07	2.4E-07	2.1E-07	9.7E-08	4.1E-10	9.9E-09	5.1E-09	4.6E-09	1.4E-09	2.1E-08
809 UCAR	557510.26	3776648.23 557510.26, 3776648.2	1.72272	1.67156	1.85299	1.85356	0.000167254	2.89E-04	6.00E-05	9.60E-06	5.25E-04	1.8E-07	5.5E-07	3.2E-07	2.9E-07	1.3E-07	5.5E-10	1.3E-08	6.9E-09	6.2E-09	1.9E-09	2.9E-08
810 UCAR	557530.26	3776648.23 557530.26, 3776648.2	1.65508	1.6009	1.79094	1.7915	0.000160687	2.76E-04	5.80E-05	9.28E-06	5.04E-04	1.7E-07	5.3E-07	3.1E-07	2.8E-07	1.3E-07	5.3E-10	1.3E-08	6.6E-09	6.0E-09	1.8E-09	2.8E-08
811 UCAR	557550.26	3776648.23 557550.26, 3776648.2	1.58688	1.52922	1.72958	1.73012	0.000154066	2.64E-04	5.60E-05	8.96E-06	4.83E-04	1.7E-07	5.0E-07	2.9E-07	2.6E-07	1.2E-07	5.1E-10	1.2E-08	6.3E-09	5.7E-09	1.7E-09	2.7E-08
812 UCAR	557570.26	3776648.23 557570.26, 3776648.2	1.52131	1.46044	1.67037	1.67089	0.0001477	2.52E-04	5.41E-05	8.65E-06	4.62E-04	1.6E-07	4.8E-07	2.8E-07	2.5E-07	1.2E-07	4.9E-10	1.2E-08	6.0E-09	5.5E-09	1.7E-09	2.5E-08
813 UCAR	557590.26	3776648.23 557590.26, 3776648.2	1.47263	1.41281	1.61795	1.61844	0.000142974	2.44E-04	5.24E-05	8.38E-06	4.48E-04	1.5E-07	4.7E-07	2.7E-07	2.5E-07	1.1E-07	4.7E-10	1.1E-08	5.8E-09	5.3E-09	1.6E-09	2.5E-08
814 UCAR	557610.26	3776648.23 557610.26, 3776648.2	1.42228	1.36265	1.56628	1.56675	0.000138085	2.35E-04	5.07E-05	8.11E-06	4.32E-04	1.5E-07	4.5E-07	2.6E-07	2.4E-07	1.1E-07	4.5E-10	1.1E-08	5.6E-09	5.1E-09	1.6E-09	2.4E-08
815 UCAR	557630.26	3776648.23 557630.26, 3776648.2	1.3829	1.32612	1.51936	1.51981	0.000134262	2.29E-04	4.92E-05	7.87E-06	4.20E-04	1.5E-07	4.4E-07	2.5E-07	2.3E-07	1.1E-07	4.4E-10	1.1E-08	5.5E-09	5.0E-09	1.5E-09	2.3E-08
816 UCAR	557650.26	3776648.23 557650.26, 3776648.2	1.34795	1.29484	1.47518	1.4756	0.000130869	2.23E-04	4.77E-05	7.64E-06	4.10E-04	1.4E-07	4.3E-07	2.5E-07	2.2E-07	1.0E-07	4.3E-10	1.0E-08	5.4E-09	4.9E-09	1.5E-09	2.3E-08
817 UCAR	557670.26	3776648.23 557670.26, 3776648.2	1.30804	1.25673	1.43084	1.43124	0.000126994	2.17E-04	4.63E-05	7.41E-06	3.98E-04	1.4E-07	4.2E-07	2.4E-07	2.2E-07	1.0E-07	4.2E-10	1.0E-08	5.2E-09	4.7E-09	1.4E-09	2.2E-08
818 UCAR	557690.26	3776648.23 557690.26, 3776648.2	1.27256	1.22384	1.38923	1.38961	0.00012355	2.11E-04	4.50E-05	7.20E-06	3.87E-04	1.3E-07	4.0E-07	2.3E-07	2.1E-07	9.7E-08	4.1E-10	9.8E-09	5.1E-09	4.6E-09	1.4E-09	2.1E-08
819 UCAR	557510.26	3776668.23 557510.26, 3776668.2	1.69908	1.6277	1.87517	1.87579	0.000164959	2.81E-04	6.07E-05	9.71E-06	5.16E-04	1.8E-07	5.4E-07	3.1

Operational Risk - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID			Concentration [µg/m^3] at 1 g/s				Unmitigated					Residential Dose					Risk by Age Group					
			Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point	Fueling and Hose Permeation	Spillage (Volume	Loading (Point	(Breathing (Point												
X	Y	X, Y	(Volume Source)	Source)	Source)	Source)	(Volume Source)	Source)	Source)	Source)	Combined	3rd	0<2	2<9	9<16	16<30	3rd	0<2	2<9	9<16	16<30	Total Risk
869 UCAR	556432.49	3776537.81	556432.49, 3776537.8	0.5116	0.51849	0.44858	0.44825	4.96699E-05	8.95E-05	1.45E-05	2.32E-06	1.56E-04	5.4E-08	1.6E-07	9.4E-08	8.6E-08	3.9E-08	1.6E-10	4.0E-09	2.0E-09	1.8E-09	5.6E-10	8.6E-09
870 UCAR	556452.49	3776537.81	556452.49, 3776537.8	0.5229	0.53131	0.45673	0.45639	5.0767E-05	9.17E-05	1.48E-05	2.36E-06	1.60E-04	5.5E-08	1.7E-07	9.7E-08	8.8E-08	4.0E-08	1.7E-10	4.1E-09	2.1E-09	1.9E-09	5.7E-10	8.8E-09
871 UCAR	556472.49	3776537.81	556472.49, 3776537.8	0.54833	0.55739	0.47745	0.47711	5.32359E-05	9.62E-05	1.55E-05	2.47E-06	1.67E-04	5.8E-08	1.7E-07	1.0E-07	9.2E-08	4.2E-08	1.8E-10	4.2E-09	2.2E-09	2.0E-09	6.0E-10	9.2E-09
872 UCAR	556492.49	3776537.81	556492.49, 3776537.8	0.57176	0.58097	0.49617	0.49583	5.55107E-05	1.00E-04	1.61E-05	2.57E-06	1.74E-04	6.0E-08	1.8E-07	1.1E-07	9.6E-08	4.4E-08	1.8E-10	4.4E-09	2.3E-09	2.1E-09	6.3E-10	9.6E-09
873 UCAR	556332.49	3776557.81	556332.49, 3776557.8	0.48931	0.49717	0.42661	0.42633	4.75058E-05	8.58E-05	1.38E-05	2.21E-06	1.49E-04	5.2E-08	1.6E-07	9.0E-08	8.2E-08	3.7E-08	1.6E-10	3.8E-09	2.0E-09	1.8E-09	5.4E-10	8.2E-09
874 UCAR	556352.49	3776557.81	556352.49, 3776557.8	0.49069	0.49704	0.42846	0.42818	4.76398E-05	8.58E-05	1.39E-05	2.22E-06	1.50E-04	5.2E-08	1.6E-07	9.0E-08	8.2E-08	3.7E-08	1.6E-10	3.8E-09	2.0E-09	1.8E-09	5.4E-10	8.2E-09
875 UCAR	556372.49	3776557.81	556372.49, 3776557.8	0.50038	0.50563	0.43824	0.43794	4.85806E-05	8.73E-05	1.42E-05	2.27E-06	1.52E-04	5.3E-08	1.6E-07	9.2E-08	8.4E-08	3.8E-08	1.6E-10	3.9E-09	2.0E-09	1.8E-09	5.5E-10	8.4E-09
876 UCAR	556392.49	3776557.81	556392.49, 3776557.8	0.50448	0.50891	0.44274	0.44243	4.89787E-05	8.78E-05	1.43E-05	2.29E-06	1.53E-04	5.3E-08	1.6E-07	9.3E-08	8.4E-08	3.8E-08	1.6E-10	3.9E-09	2.0E-09	1.8E-09	5.5E-10	8.4E-09
877 UCAR	556412.49	3776557.81	556412.49, 3776557.8	0.52098	0.52568	0.45761	0.45728	5.05806E-05	9.07E-05	1.48E-05	2.37E-06	1.58E-04	5.5E-08	1.7E-07	9.6E-08	8.7E-08	4.0E-08	1.7E-10	4.0E-09	2.1E-09	1.9E-09	5.7E-10	8.7E-09
878 UCAR	556432.49	3776557.81	556432.49, 3776557.8	0.53366	0.53977	0.46789	0.46754	5.18117E-05	9.32E-05	1.51E-05	2.42E-06	1.63E-04	5.6E-08	1.7E-07	9.8E-08	8.9E-08	4.1E-08	1.7E-10	4.1E-09	2.1E-09	1.9E-09	5.8E-10	8.9E-09
879 UCAR	556452.49	3776557.81	556452.49, 3776557.8	0.54496	0.55297	0.47609	0.47574	5.29088E-05	9.54E-05	1.54E-05	2.46E-06	1.66E-04	5.8E-08	1.7E-07	1.0E-07	9.1E-08	4.2E-08	1.7E-10	4.2E-09	2.2E-09	2.0E-09	6.0E-10	9.1E-09
880 UCAR	556472.49	3776557.81	556472.49, 3776557.8	0.56831	0.5777	0.49476	0.4944	5.51757E-05	9.97E-05	1.60E-05	2.56E-06	1.73E-04	6.0E-08	1.8E-07	1.0E-07	9.5E-08	4.3E-08	1.8E-10	4.4E-09	2.3E-09	2.1E-09	6.2E-10	9.5E-09
881 UCAR	556492.49	3776557.81	556492.49, 3776557.8	0.59666	0.60654	0.51772	0.51735	5.79282E-05	1.05E-04	1.68E-05	2.68E-06	1.82E-04	6.3E-08	1.9E-07	1.1E-07	1.0E-07	4.6E-08	1.9E-10	4.6E-09	2.4E-09	2.2E-09	6.5E-10	1.0E-08
882 UCAR	556332.49	3776577.81	556332.49, 3776577.8	0.50655	0.51623	0.44042	0.44012	4.91796E-05	8.91E-05	1.43E-05	2.28E-06	1.55E-04	5.4E-08	1.6E-07	9.4E-08	8.5E-08	3.9E-08	1.6E-10	3.9E-09	2.0E-09	1.8E-09	5.6E-10	8.5E-09
883 UCAR	556352.49	3776577.81	556352.49, 3776577.8	0.51921	0.52739	0.45179	0.45148	5.040888E-05	9.10E-05	1.46E-05	2.34E-06	1.58E-04	5.5E-08	1.7E-07	9.6E-08	8.7E-08	4.0E-08	1.7E-10	4.0E-09	2.1E-09	1.9E-09	5.7E-10	8.7E-09
884 UCAR	556372.49	3776577.81	556372.49, 3776577.8	0.52748	0.5342	0.46	0.45969	5.12117E-05	9.22E-05	1.49E-05	2.38E-06	1.61E-04	5.6E-08	1.7E-07	9.7E-08	8.8E-08	4.0E-08	1.7E-10	4.1E-09	2.1E-09	1.9E-09	5.8E-10	8.8E-09
885 UCAR	556392.49	3776577.81	556392.49, 3776577.8	0.53771	0.5433	0.47023	0.4699	5.220049E-05	9.38E-05	1.52E-05	2.43E-06	1.64E-04	5.7E-08	1.7E-07	9.9E-08	9.0E-08	4.1E-08	1.7E-10	4.2E-09	2.1E-09	1.9E-09	5.9E-10	9.0E-09
886 UCAR	556412.49	3776577.81	556412.49, 3776577.8	0.55044	0.5555	0.4823	0.48195	5.34408E-05	9.59E-05	1.56E-05	2.50E-06	1.67E-04	5.8E-08	1.7E-07	1.0E-07	9.2E-08	4.2E-08	1.8E-10	4.2E-09	2.2E-09	2.0E-09	6.0E-10	9.2E-09
887 UCAR	556432.49	3776577.81	556432.49, 3776577.8	0.55832	0.5639	0.48901	0.48865	5.42058E-05	9.73E-05	1.58E-05	2.53E-06	1.70E-04	5.9E-08	1.8E-07	1.0E-07	9.3E-08	4.3E-08	1.8E-10	4.3E-09	2.2E-09	2.0E-09	6.1E-10	9.3E-09
888 UCAR	556452.49	3776577.81	556452.49, 3776577.8	0.57347	0.58084	0.50107	0.50069	5.56767E-05	1.00E-04	1.62E-05	2.59E-06	1.75E-04	6.0E-08	1.8E-07	1.1E-07	9.6E-08	4.4E-08	1.8E-10	4.4E-09	2.3E-09	2.1E-09	6.3E-10	9.6E-09
889 UCAR	556472.49	3776577.81	556472.49, 3776577.8	0.59701	0.6064	0.51986	0.51947	5.79622E-05	1.05E-04	1.68E-05	2.69E-06	1.82E-04	6.3E-08	1.9E-07	1.1E-07	1.0E-07	4.6E-08	1.9E-10	4.6E-09	2.4E-09	2.2E-09	6.5E-10	1.0E-08
890 UCAR	556492.49	3776577.81	556492.49, 3776577.8	0.62282	0.63328	0.54037	0.53997	6.0468E-05	1.09E-04	1.75E-05	2.80E-06	1.90E-04	6.6E-08	2.0E-07	1.1E-07	1.0E-07	4.8E-08	2.0E-10	4.8E-09	2.5E-09	2.3E-09	6.8E-10	1.0E-08
891 UCAR	556332.49	3776597.81	556332.49, 3776597.8	0.53165	0.54324	0.4625	0.46218	5.16165E-05	9.38E-05	1.50E-05	2.39E-06	1.63E-04	5.6E-08	1.7E-07	9.8E-08	8.9E-08	4.1E-08	1.7E-10	4.1E-09	2.1E-09	1.9E-09	5.8E-10	8.9E-09
892 UCAR	556352.49	3776597.81	556352.49, 3776597.8	0.54538	0.55572	0.4734	0.47308	5.29495E-05	9.59E-05	1.53E-05	2.45E-06	1.67E-04	5.8E-08	1.7E-07	1.0E-07	9.1E-08	4.2E-08	1.8E-10	4.2E-09	2.2E-09	2.0E-09	6.0E-10	9.2E-09
893 UCAR	556372.49	3776597.81	556372.49, 3776597.8	0.55515	0.56376	0.48216	0.48183	5.38981E-05	9.73E-05	1.56E-05	2.49E-06	1.69E-04	5.9E-08	1.8E-07	1.0E-07	9.3E-08	4.2E-08	1.8E-10	4.3E-09	2.2E-09	2.0E-09	6.1E-10	9.3E-09
894 UCAR	556392.49	3776597.81	556392.49, 3776597.8	0.55868	0.56562	0.48616	0.48582	5.42408E-05	9.76E-05	1.57E-05	2.52E-06	1.70E-04	5.9E-08	1.8E-07	1.0E-07	9.3E-08	4.3E-08	1.8E-10	4.3E-09	2.2E-09	2.0E-09	6.1E-10	9.3E-09
895 UCAR	556412.49	3776597.81	556412.49, 3776597.8	0.57752	0.5835	0.50408	0.50372	5.60699E-05	1.01E-04	1.63E-05	2.61E-06	1.76E-04	6.1E-08	1.8E-07	1.1E-07	9.6E-08	4.4E-08	1.8E-10	4.5E-09	2.3E-09	2.1E-09	6.3E-10	9.7E-09
896 UCAR	556432.49	3776597.81	556432.49, 3776597.8	0.58553	0.59115	0.51165	0.51127	5.68476E-05	1.02E-04	1.66E-05	2.65E-06	1.78E-04	6.2E-08	1.9E-07	1.1E-07	9.8E-08	4.5E-08	1.9E-10	4.5E-09	2.3E-09	2.1E-09	6.4E-10	9.8E-09
897 UCAR	556452.49	3776597.81	556452.49, 3776597.8	0.59333	0.5999	0.5179	0.51751	5.76049E-05	1.04E-04	1.68E-05	2.68E-06	1.81E-04	6.3E-08	1.9E-07	1.1E-07	9.9E-08	4.5E-08	1.9E-10	4.6E-09	2.4E-09	2.1E-09	6.5E-10	9.9E-09
898 UCAR	556472.49	3776597.81	556472.49, 3776597.8	0.61476	0.62346	0.53513	0.53472	5.96855E-05	1.08E-04	1.73E-05	2.77E-06	1.87E-04	6.5E-08	2.0E-07	1.1E-07	1.0E-07	4.7E-08	2.0E-10	4.8E-09	2.4E-09	2.2E-09	6.7E-10	1.0E-08
899 UCAR	556492.49	3776597.81	556492.49, 3776597.8	0.64969	0.66038	0.56362	0.56319	6.30767E-05	1.14E-04	1.82E-05	2.92E-06	1.98E-04	6.9E-08	2.1E-07	1.2E-07	1.1E-07	5.0E-08	2.1E-10	5.0E-09	2.6E-09	2.3E-09	7.1E-10	1.1E-08
900 UCAR	556252.49	3776617.81	556252.49, 3776617.8	0.46377	0.46659	0.41769	0.41739	4.50262E-05	8.05E-05	1.35E-05	2.16E-06	1.41E-04	4.9E-08	1.5E-07	8.5E-08	7.7E-08	3.5E-08	1.5E-10	3.6E-09	1.8E-09	1.7E-09	5.1E-10	7.8E-09
901 UCAR	556272.49	3776617.81	556272.49, 3776617.8	0.47953	0.48402	0.43003	0.42972	4.65563E-05	8.35E-05	1.39E-05	2.23E-06	1.46E-04	5.1E-08	1.5E-07	8.8E-08	8.0E-08	3.7E-08	1.5E-10	3.7E-09	1.9E-09	1.7E-09	5.2E-10	8.0E-09
902 UCAR	556292.49	3776617.81	556292.49, 3776617.8	0.50146	0.5089	0.44592	0.44559	4.86855E-05	8.78E-05	1.44E-05	2.31E-06	1.53E-04	5.3E-08	1.6E-07	9.3E-08	8.4E-08	3.8E-08	1.6E-10	3.9E-09	2.0E-09	1.8E-09	5.5E-10	8.4E-09
903 UCAR	556312.49	3776617.81	556312.49, 3776617.8	0.52761	0.53818	0.46452	0.46419	5.12243E-05	9.29E-05	1.50E-05	2.40E-06	1.62E-04	5.6E-08	1.7E-07	9.8E-08	8.9E-08	4.0E-08	1.7E-10	4.1E-09	2.1E-09	1.9E-09	5.8E-10	8.9E-09
904 UCAR	556332.49	3776617.81	556332.49, 3776617.8	0.5429	0.55509	0.47344	0.4731	5.270888E-05	9.58E-05	1.53E-05	2.45E-06	1.66E-04	5.8E-08	1.7E-07	1.0E-07	9.1E-08	4.2E-08	1.7E-10	4.2E-09	2.2E-09	2.0E-09	6.0E-10	9.1E-09
905 UCAR	556352.49	3776617.81	556352.49, 3776617.8	0.57025	0.58263	0.49492	0.49457	5.536411E-05	1.01E-04	1.60E-05	2.56E-06	1.75E-04	6.0E-08	1.8E-07	1.1E-07	9.6E-08	4.4E-08	1.8E-10	4.4E-09	2.3E-09	2.1E-09	6.3E-10	9.6E-09
906 UCAR	556372.49	3776617.81	556372.49, 3776617.8	0.58946	0.60055	0.51075	0.51039	5.722911E-05	1.04E-04	1.65E-05	2.64E-06	1.80E-04	6.2E-08	1.9E-07	1.1E-07	9.9E-08	4.5E-08	1.9E-10	4.6E-09	2.4E-09	2.1E-09	6.5E-10	9.9E-09
907 UCAR	556392.49	3776617.81	556392.49, 3776617.8	0.59738	0.60653	0.51787	0.5175	5.799811E-05	1.05E-04	1.68E-05	2.68E-06	1.82E-04	6.3E-08	1.9E-07	1.1E-07	1.0E-07	4.6E-08	1.9E-10	4.6E-09	2.4E-09	2.2E-09	6.5E-10	1.0E-08
908 UCAR	556412.49	3776617.81	556412.49, 3776617.8	0.61255	0.62016	0.53234	0.53196	5.947098-05	1.07E-04	1.72E-05	2.75E-06	1.86E-04	6.5E-08	1.9E-07	1.1E-07	1.0E-07	4.7E-08	2.0E-10	4.7E-09	2.4E-09	2.2E-09	6.7E-10	1.0E-08
909 UCAR	556432.49	3776617.81	556432.49, 3776617.8	0.6173	0.62372	0.53749	0.5371	5.99321E-05	1.08E-04	1.74E-05	2.78E-06	1.88E-04	6.5E-08	2.0E-07	1.1E-07	1.0E-07	4.7E-08	2.0E-10	4.8E-09	2.5E-09	2.2E-09	6.7E-10	1.0E-08
910 UCAR	556452.49	3776617.81	556452.49, 3776617.8	0.6336	0.64018	0.55213	0.55171	6.15146E-05	1.10E-04	1.79E-05	2.86E-06	1.93E-04	6.7E-08	2.0E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-10	4.9E-09	2.5E-09	2.3E-09	6.9E-10	1.1E-08
911 UCAR	556472.49	3776617.81	556472.49, 3776617.8	0.64055	0.64849	0.55717	0.55673	6.21893E-05	1.12E-04	1.80E-05	2.88E-06	1.95E-04	6.8E-08	2.0E-07	1.2E-07	1.1E-07	4.9E-08	2.0E-10	5.0E-09	2.5E-09	2.3E-09	7.0E-10	1.1E-08
912 UCAR	556492.49	3776617.81	556492.49, 3776617.8	0.67734	0.68775	0.58747	0.58701	6.57612E-05	1.19E-04	1.90E-05	3.04E-06	2.07E-04	7.1E-08	2.2E-07	1.2E-07	1.1E-07	5.2E-08	2.2E-10	5.2E-09	2.7E-09	2.4E-09	7.4E-10	1.1E-08
913 UCAR	556252.49	3776637.81	556252.49, 3776637.8	0.47943	0.48233	0.43012	0.42982	4.654666-05	8.33E-05	1.39E-05	2.23E-06	1.46E-04	5.1E-08	1.5E-07	8.8E-08	8.0E-08	3.7E-08	1.5E-10	3.7E-09	1.9E-09	1.7E-09	5.2E-10	8.0E-09
914 UCAR	556272.49	3776637.81	556272.49, 3776637.8	0.50167	0.50521	0.44999	0.44966	4.870588-05	8.72E-05	1.46E-05	2.33E-06	1.53E-04	5.3E-08	1.6E-07	9.2E-08	8.4E-08	3.8E-08	1.6E-10	3.9E-09	2.0E-09	1.8E-09	5.5E-10	8.4E-09
915 UCAR	556292.49	3776637.81	556292.49, 3776637.8	0.51498	0.52015	0.46041	0.46007	4.999818-05	8.98E-05	1.49E-05	2.38E-06	1.57E-04	5.4E-08	1.6E-07	9.5E-08	8.6E-08	3.9E-08	1.7E-10	4.0E-09	2.1E-09	1.9E-09	5.6E-10	8.6E-09
916 UCAR	556312.49	3776637.81	556312.49, 3776637.8	0.53595	0.54419	0.47511	0.47475	5.2034E-05	9.39E-05	1.54E-05	2.46E-06	1.64E-04	5.7E-08	1.7E-07	9.9E-08	9.0E-08	4.1E-08	1.7E-10	4.2E-09	2.1E-09	1.9E-09	5.9E-10	9.0E-09
917 UCAR	556332.49	3776637.81	556332.49, 3776637.8	0.56757	0.57918	0.49829	0.49792	5.510398-05	1.00E-04	1.61E-05	2.58E-06	1.74E-04	6.0E-08	1.8E-07	1.1E-07	9.5E-08	4.3E-08	1.8E-10	4.4E-09	2.3E-09	2.1E-09	6.2E-10	9.5E-09
918 UCAR	556352.49	3776637.81	556352.49, 3776637.8	0.59049	0.60387	0.51386	0.51348	5.732918-05	1.04E-04	1.66E-05	2.66E-06	1.81E-04	6.3E-08	1.9E-07	1.1E-07	9.9E-08	4.5E-08	1.9E-10	4.6E-09	2.4E-09	2.1E-09	6.5E-10	9.9E-09
919 UCAR	556372.49	3776637.81	556372.49, 3776637.8	0.61776	0.63115	0.53499	0.53461	5.99767E-05	1.09E-04	1.73E-05	2.77E-06	1.89E-04	6.5E-08	2.0E-07	1.1E-07	1.0E-07	4.7E-08	2.0E-10	4.8E-09	2.5E-09	2.2E-09	6.8E-10	1.0E-08
920 UCAR	556392.49	3776637.81	556392.49, 3776637.8	0.62806	0.63969	0.54269	0.5423	6.09767E-05	1.10E-04	1.76E-05	2.81E-06	1.92E-04	6.6E-08	2.0E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-10	4.9E-09	2.5E-09	2.3E-09	6.9E-10	1.1E-08
921 UCAR	556412.49	3776637.81	556412.49, 3776637.8	0.64248	0.65217	0.55573	0.55533	6.23767E-05	1.13E-04	1.80E-05	2.88E-06	1.96E-04	6.8E-08	2.0E-07	1.2E-07	1.1E-07	4.9E-08	2.1E-10	5.0E-09	2.6E-09	2.3E-09	7.0E-10	1.1E-08
922 UCAR	556432.49	3776637.81	556432.49, 3776637.8	0.65336	0.66134	0.56637	0.56595	6.3433E-05	1.14E-04	1.83E-05	2.93E-06	1.99E-04	6.9E-08	2.1E-07	1.2E-07	1.1E-07	5.0E-08	2.1E-10	5.0E-09	2.6E-09	2.4E-09	7.1E-10	1.1E-08
923 UCAR	556452.49	3776637.81	556452.49, 3776637.8	0.66276	0.6698	0.57551	0.57508	6.43457E-05	1.16E-04	1.86E-05	2.98E-06	2.02E-04	7.0E-08	2.1E-07	1.2E-07	1.1E-07	5.0E-08	2.1E-10	5.1E-09	2.6E-09	2.4E-09	7.2E-10	1.1E-08
924 UCAR	556472.49	3776637.81	556472.49, 3776637.8	0.68009	0.68775	0.59063	0.59017	6.60282E-05	1.19E-04	1.91E-05	3.06E-06	2.07E-04	7.2E-08	2.2E-07	1.3E-07	1.1E-07	5.2E-08	2.2E-10	5.3E-09	2.7E-09	2.5E-09	7.4E-10	1.1E-08
925 UCAR	556492.49	3776637.81	556492.49, 3776637.8	0.70698	0.71675	0.61275	0.61226	6.863898-05	1.24E-04	1.98E-05	3.17E-06	2.15E-04	7.5E-08	2.3E-07	1.3E-07	1.2E-07	5.4E-08	2.3E-10	5.5E-09	2.8E-09	2.6E-09	7.7E-10	1.2E-08
926 UCAR	556252.49	3776657.81	556252.49, 3776657.8	0.5043	0.50825	0.44893	0.44863	4.896128-05	8.77E-05	1.43E-05	2.32E-06	1.54E-04	5.3E-08	1.6E-07	9.3E-08	8.4E-08	3.8E-08	1.6E-10	3.9E-09	2.0E-09	1.8E-09	5.5E-10	8.4E-09
927 UCAR	556272.49	3776657.81	556272.49, 3776657.8	0.52042	0.52402	0.46526	0.46493	5.052628-05	9.04E-05	1.51E-05	2.41E-06	1.58E-04	5.5E-08	1.7E-07	9.6E-08	8.7E-08	4.0E-08	1.7E-10	4.0E-09	2.1E-09	1.9E-09	5.7E-10	8.7E-09
928 UCAR	556292.49	3776657.81	556292.49, 3776657.8	0.53982	0.54398	0.48296	0.4826	5.240978-05	9.39E-05	1.56E-05	2.50E-06	1.64E-04	5.7E-08	1.7E-07	9.9E-08	9.0E-08	4.1E-08	1.7E-10	4.2E-09	2.1E-09	1.9E-09	5.9E-10	9.0E-09
929 UCAR	556312.49	3776657.81	556312.49, 3776657.8	0.54675	0.55246	0.48715	0.48678	5.308258-05	9.54E-05	1.58E-05	2.52E-06	1.67E-04	5.8E-08	1.7E-07	1.0E-07	9.1E-08	4.2E-08	1.8E-10	4.2E-09	2.2E-09	2.0E-09	6.0E-10	9.2E-09
930 UCAR	556332.49	3776657.81	556332.49, 3776657.8	0.58297	0.59237	0.51526	0.51487	5.6599E-05	1.02E-04	1.67E-05	2.67E-06	1.78E-04	6.2E-08	1.9E-07	1.1E-07	9.8E-08	4.5E-08	1.9E-10	4.5E-09	2.3E-09	2.1E-09	6.4E-10	9.8E-09
931 UCAR	556352.49	3776657.81	556352.49, 3776657.8	0.61469	0.62755	0.53807	0.53766	5.967878-05	1.08E-04	1.74E-05	2.78E-06	1.88E-04	6.5E-08	2.0E-07	1.1E-07	1.0E-07	4.7E-08	2.0E-10	4.8E-09	2.5E-09	2.2E-09	6.8E-10	1.0E-08
932 UCAR	556372.49	3776657.81	556372.49, 3776657.8	0.64468	0.65944	0.55969	0.55928	6.25903E-05	1.14E-04	1.81E-05	2.90E-06	1.97E-04	6.8E-08	2.1E-07	1.2E-07	1.1E-07	4.9E-08	2.1E-10	5.0E-09	2.6E-09	2.3E-09	7.1E-10	1.1E-08
933 UCAR	556392.49	3776657.81	556392.49, 3776657.8	0.65579	0.66987	0.56594	0.56553	6.3669E-05	1.16E-04	1.83E-05	2.93E-06	2.01E-04	6.9E-08	2.1E-07	1.2E-07	1.1E-07	5.0E-08	2.1E-10	5.1E-09	2.6E-09	2.4E-09	7.2E-10	1.1E-08
934 UCAR	556412.49	3776657.81	556412.49, 3776657.8	0.67203	0.68427	0.57904	0.57861	6.52457E-05	1.18E-04	1.87E-05	3.00E-06	2.05E-04	7.1E-08	2.1E-07	1.2E-07	1.1E-07	5.1E-08	2.2E-10	5.2E-09	2.7E-09	2.4E-09	7.4E-10	1.1E-08
935 UCAR	556432.49	3776657.81	556432.49, 3776657.8	0.68522	0.69531	0.59105	0.59061	6.65262E-05	1.20E-04	1.91E-05	3.06E-06	2.09E-04	7.2E-08	2.2E-07	1.3E-07	1.1E-07	5.2E-08	2.2E-10	5.3E-09	2.7E-09	2.5E-09	7.5E-10	1.1E-08
936 UCAR	556452.49	3776657.81	556452.49, 3776657.8	0.69896	0.7074	0.60422	0.60376	6.78602E-05	1.22E-04	1.96E-05	3.13E-06	2.13E-04	7.4E-08	2.2E-07	1.3E-07	1.2E-07	5.3E-08	2.2E-10	5.4E-09	2.8E-09	2.5E-09	7.6E-10	1.2E-08
937 UCAR	556472.49	3776657.81	556472.49, 3776657.8	0.71433	0.72224	0.6184	0.61792	6.935258-05	1.25E-04	2.00E-05	3.20E-06	2.17E-04	7.5E-08	2.3E-07	1.3E-07	1.2E-07	5.4E-08	2.3E-10	5.5E-09	2.8E-09	2.6E-09	7.8E-10	1.2E-08
938 UCAR	556492.49	3776657.81	556492.49, 3776657.8	0.74121	0.75043	0.64139	0.64087	7.196228-05	1.30E-04	2.08E-05	3.32E-06	2.26E-04	7.8E-08	2.4E-07	1.4E-07	1.2E-07	5.6E-08	2.4E-10	5.7E-09	2.9E-09	2.7E-09	8.1E-10	1.2E-08
939 UCAR	556252.49	3776677.81	556252.49, 3776677.8	0.53492	0.53999	0.47169	0.47139	5.1934E-05	9.32E-05	1.53E-05	2.44E-06	1.63E-04	5.6E-08	1.7E-07	9.9E-08	8.9E-08	4.1E-08	1.7E-10	4.1E-09	2.1E-09	1.9E-09	5.8E-10	8.9E-09
940 UCAR	556272.49	3776677.81	556272.49, 3776677.8	0.53618	0.54052	0.47542	0.47509	5.205638-05	9.33E-05	1.54E-05	2.46E-06	1.63E-04	5.6E-08	1.7E-07	9.9E-08	9.0E-08	4.1E-08	1.7E-10	4.1E-09	2.1E-09	1.9E-09	5.9E-10	9.0E-09
941 UCAR	556292.49	3776677.81	556292.49, 3776677.8	0.55099	0.55493	0.48974	0.49038	5.349428-05	9.58E-05	1.59E-05	2.54E-06	1.68E-04	5.8E-08	1.8E-07	1.0E-07	9.2E-08	4.2E-08	1.8E-10	4.3E-09	2.2E-09	2.0E-09	6.0E-10	9.2E-09
942 UCAR	556312.49	3776677.81	556312.49, 3776677.8	0.57185	0.5764	0.50979

Construction and Operational Risk Combined

Discrete Receptor ID					Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
	X	Y	X, Y					
1	1	556521.71	3777341.57	556521.71, 3777341.5	0.086277104	0.000945139	0.13103745	2.2E-01
2	1	556539.9	3777344.94	556539.9, 3777344.94	0.092251506	0.001010267	0.142586553	2.4E-01
3	1	556591.78	3777345.39	556591.78, 3777345.3	0.114511885	0.00125324	0.189183306	3.0E-01
4	1	556630.62	3777349.66	556630.62, 3777349.6	0.127686354	0.001417359	0.238627805	3.7E-01
5	1	556684.29	3777349.43	556684.29, 3777349.4	0.148922202	0.001707301	0.344453086	5.0E-01
6	1	556905.58	3777351.19	556905.58, 3777351.1	0.129732876	0.002477544	0.386893892	5.2E-01
7	1	556920.93	3777350.82	556920.93, 3777350.8	0.120539086	0.002320799	0.34868377	4.7E-01
8	1	556942.87	3777350.09	556942.87, 3777350.0	0.107161209	0.002019173	0.291592159	4.0E-01
9	1	556996.26	3777348.26	556996.26, 3777348.2	0.077754826	0.001275448	0.20253432	2.8E-01
10	1	557096.81	3777357.77	557096.81, 3777357.7	0.040403591	0.000601756	0.12997954	1.7E-01
11	1	557115.83	3777363.62	557115.83, 3777363.6	0.035581296	0.000533324	0.118543377	1.5E-01
12	1	557129.36	3777361.43	557129.36, 3777361.4	0.03339463	0.000500713	0.115232051	1.5E-01
13	1	557230.65	3777363.99	557230.65, 3777363.9	0.020252798	0.000320872	0.085222225	1.1E-01
14	1	556466.22	3776816.07	556466.22, 3776816.0	0.011315494	0.000158986	0.017563668	2.9E-02
15	1	556407.87	3776826.19	556407.87, 3776826.1	0.009937032	0.00014637	0.016353003	2.6E-02
16	1	556381.07	3776807.14	556381.07, 3776807.1	0.008791826	0.000131811	0.014974281	2.4E-02
17	1	556404.29	3776771.52	556404.29, 3776771.5	0.008383671	0.000122452	0.013716622	2.2E-02
18	1	556465.21	3776739.51	556465.21, 3776739.5	0.008927128	0.000122309	0.014864286	2.4E-02
19	1	556396.1	3776739.93	556396.1, 3776739.93	0.00753702	0.000110083	0.012741451	2.0E-02
20	1	556323.99	3777265.43	556323.99, 3777265.4	0.031549353	0.000409142	0.054933524	8.7E-02
21	1	556330.6	3777233.99	556330.6, 3777233.99	0.029411863	0.000411095	0.052713272	8.3E-02
22	1	556321.08	3777200.43	556321.08, 3777200.4	0.024687587	0.000377965	0.047365054	7.2E-02
23	1	556275.11	3777267.81	556275.11, 3777267.8	0.025462809	0.000339086	0.046553723	7.2E-02
24	1	556278.28	3777233.46	556278.28, 3777233.4	0.023174828	0.000334936	0.044047243	6.8E-02
25	UCAR	556509.4	3777373.38	556509.4, 3777373.38	0.071164931	0.000792002	0.118481033	1.9E-01
26	UCAR	556529.4	3777373.38	556529.4, 3777373.38	0.076457177	0.00085414	0.129751621	2.1E-01
27	UCAR	556549.4	3777373.38	556549.4, 3777373.38	0.081896358	0.000919542	0.143065043	2.3E-01
28	UCAR	556569.4	3777373.38	556569.4, 3777373.38	0.087440501	0.000987364	0.158481564	2.5E-01
29	UCAR	556589.4	3777373.38	556589.4, 3777373.38	0.09294151	0.001058924	0.176873101	2.7E-01
30	UCAR	556609.4	3777373.38	556609.4, 3777373.38	0.09839124	0.001132401	0.197711776	3.0E-01
31	UCAR	556629.4	3777373.38	556629.4, 3777373.38	0.103607781	0.001209186	0.22269159	3.3E-01
32	UCAR	556649.4	3777373.38	556649.4, 3777373.38	0.10851185	0.001286735	0.25194604	3.6E-01
33	UCAR	556669.4	3777373.38	556669.4, 3777373.38	0.112835238	0.001365284	0.286471646	4.0E-01
34	UCAR	556689.4	3777373.38	556689.4, 3777373.38	0.116356394	0.001442568	0.321278155	4.4E-01
35	UCAR	556709.4	3777373.38	556709.4, 3777373.38	0.118913249	0.001516184	0.344276192	4.6E-01
36	UCAR	556729.4	3777373.38	556729.4, 3777373.38	0.120491827	0.00158579	0.345512586	4.7E-01
37	UCAR	556749.4	3777373.38	556749.4, 3777373.38	0.121295022	0.001653035	0.331479908	4.5E-01
38	UCAR	556769.4	3777373.38	556769.4, 3777373.38	0.121820808	0.001716048	0.317891572	4.4E-01
39	UCAR	556789.4	3777373.38	556789.4, 3777373.38	0.122214873	0.001776902	0.31768342	4.4E-01
40	UCAR	556809.4	3777373.38	556809.4, 3777373.38	0.122315023	0.001832972	0.326986105	4.5E-01
41	UCAR	556829.4	3777373.38	556829.4, 3777373.38	0.121626748	0.001876006	0.337683668	4.6E-01
42	UCAR	556849.4	3777373.38	556849.4, 3777373.38	0.119449042	0.001897048	0.345709419	4.7E-01
43	UCAR	556869.4	3777373.38	556869.4, 3777373.38	0.11529075	0.001888272	0.347773903	4.6E-01
44	UCAR	556889.4	3777373.38	556889.4, 3777373.38	0.109185599	0.001837108	0.337137682	4.5E-01
45	UCAR	556909.4	3777373.38	556909.4, 3777373.38	0.101537002	0.001738818	0.314036833	4.2E-01

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
46 UCAR	556929.4	3777373.38	556929.4, 3777373.38	0.092993444	0.00159836	0.280094796	3.7E-01
47 UCAR	556949.4	3777373.38	556949.4, 3777373.38	0.084208163	0.001433138	0.241762453	3.3E-01
48 UCAR	556969.4	3777373.38	556969.4, 3777373.38	0.075698051	0.001262269	0.206970781	2.8E-01
49 UCAR	556989.4	3777373.38	556989.4, 3777373.38	0.067789901	0.001102025	0.180357991	2.5E-01
50 UCAR	557009.4	3777373.38	557009.4, 3777373.38	0.060641262	0.000961956	0.161744102	2.2E-01
51 UCAR	557029.4	3777373.38	557029.4, 3777373.38	0.054277774	0.000845033	0.148682126	2.0E-01
52 UCAR	557049.4	3777373.38	557049.4, 3777373.38	0.04865039	0.000746625	0.138190946	1.9E-01
53 UCAR	557069.4	3777373.38	557069.4, 3777373.38	0.043677412	0.000663183	0.128969174	1.7E-01
54 UCAR	557089.4	3777373.38	557089.4, 3777373.38	0.039282985	0.000593502	0.121089861	1.6E-01
55 UCAR	557109.4	3777373.38	557109.4, 3777373.38	0.035397099	0.000534414	0.11411701	1.5E-01
56 UCAR	557129.4	3777373.38	557129.4, 3777373.38	0.03196142	0.000484026	0.107877521	1.4E-01
57 UCAR	557149.4	3777373.38	557149.4, 3777373.38	0.028924615	0.000440689	0.102157603	1.3E-01
58 UCAR	557169.4	3777373.38	557169.4, 3777373.38	0.026242357	0.000403349	0.096894445	1.2E-01
59 UCAR	557189.4	3777373.38	557189.4, 3777373.38	0.023872654	0.00037118	0.092082022	1.2E-01
60 UCAR	557209.4	3777373.38	557209.4, 3777373.38	0.021777016	0.000342763	0.08740636	1.1E-01
61 UCAR	557229.4	3777373.38	557229.4, 3777373.38	0.019920453	0.000317289	0.082751329	1.0E-01
62 UCAR	557249.4	3777373.38	557249.4, 3777373.38	0.018273807	0.000294511	0.078230644	9.7E-02
63 UCAR	557269.4	3777373.38	557269.4, 3777373.38	0.016810256	0.000274069	0.073877369	9.1E-02
64 UCAR	557289.4	3777373.38	557289.4, 3777373.38	0.01550764	0.000256078	0.069931674	8.6E-02
65 UCAR	557309.4	3777373.38	557309.4, 3777373.38	0.014344966	0.000239972	0.066263126	8.1E-02
66 UCAR	557329.4	3777373.38	557329.4, 3777373.38	0.01330241	0.000224981	0.062592639	7.6E-02
67 UCAR	557349.4	3777373.38	557349.4, 3777373.38	0.012368309	0.0002118	0.059379944	7.2E-02
68 UCAR	557369.4	3777373.38	557369.4, 3777373.38	0.01152517	0.000199583	0.056264597	6.8E-02
69 UCAR	557389.4	3777373.38	557389.4, 3777373.38	0.01076483	0.000188443	0.053368232	6.4E-02
70 UCAR	557409.4	3777373.38	557409.4, 3777373.38	0.010075626	0.000178247	0.050674362	6.1E-02
71 UCAR	557429.4	3777373.38	557429.4, 3777373.38	0.009449396	0.000168706	0.048071514	5.8E-02
72 UCAR	557449.4	3777373.38	557449.4, 3777373.38	0.008881474	0.000160152	0.04577172	5.5E-02
73 UCAR	557469.4	3777373.38	557469.4, 3777373.38	0.008362532	0.00015212	0.043556835	5.2E-02
74 UCAR	557489.4	3777373.38	557489.4, 3777373.38	0.007885571	0.000144387	0.041332317	4.9E-02
75 UCAR	556509.4	3777393.38	556509.4, 3777393.38	0.064308731	0.000733068	0.115149855	1.8E-01
76 UCAR	556529.4	3777393.38	556529.4, 3777393.38	0.068313498	0.00078426	0.125945239	2.0E-01
77 UCAR	556549.4	3777393.38	556549.4, 3777393.38	0.072320605	0.000837592	0.138491718	2.1E-01
78 UCAR	556569.4	3777393.38	556569.4, 3777393.38	0.076298573	0.000892436	0.152674187	2.3E-01
79 UCAR	556589.4	3777393.38	556589.4, 3777393.38	0.08013312	0.00095039	0.169694913	2.5E-01
80 UCAR	556609.4	3777393.38	556609.4, 3777393.38	0.083849915	0.001009216	0.189062653	2.7E-01
81 UCAR	556629.4	3777393.38	556629.4, 3777393.38	0.087314853	0.001070093	0.212612564	3.0E-01
82 UCAR	556649.4	3777393.38	556649.4, 3777393.38	0.090504625	0.001129536	0.238326075	3.3E-01
83 UCAR	556669.4	3777393.38	556669.4, 3777393.38	0.093194166	0.001188226	0.264638172	3.6E-01
84 UCAR	556689.4	3777393.38	556689.4, 3777393.38	0.095231882	0.001244959	0.28468328	3.8E-01
85 UCAR	556709.4	3777393.38	556709.4, 3777393.38	0.09653264	0.001299657	0.291319897	3.9E-01
86 UCAR	556729.4	3777393.38	556729.4, 3777393.38	0.097270202	0.001349206	0.281608768	3.8E-01
87 UCAR	556749.4	3777393.38	556749.4, 3777393.38	0.097634606	0.00139562	0.268839481	3.7E-01
88 UCAR	556769.4	3777393.38	556769.4, 3777393.38	0.097966371	0.001436153	0.262876402	3.6E-01
89 UCAR	556789.4	3777393.38	556789.4, 3777393.38	0.09830625	0.001470472	0.265818636	3.7E-01
90 UCAR	556809.4	3777393.38	556809.4, 3777393.38	0.098432596	0.001497478	0.27325423	3.7E-01

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
91 UCAR	556829.4	3777393.38	556829.4, 3777393.38	0.097987378	0.001511428	0.281057881	3.8E-01
92 UCAR	556849.4	3777393.38	556849.4, 3777393.38	0.096523926	0.001505709	0.286236017	3.8E-01
93 UCAR	556869.4	3777393.38	556869.4, 3777393.38	0.093692357	0.001481856	0.287779276	3.8E-01
94 UCAR	556889.4	3777393.38	556889.4, 3777393.38	0.089476347	0.001438775	0.283189468	3.7E-01
95 UCAR	556909.4	3777393.38	556909.4, 3777393.38	0.084126631	0.001367669	0.268175621	3.5E-01
96 UCAR	556929.4	3777393.38	556929.4, 3777393.38	0.078016378	0.001277522	0.246130706	3.3E-01
97 UCAR	556949.4	3777393.38	556949.4, 3777393.38	0.071565449	0.001168408	0.21691789	2.9E-01
98 UCAR	556969.4	3777393.38	556969.4, 3777393.38	0.065149444	0.001056526	0.188263927	2.5E-01
99 UCAR	556989.4	3777393.38	556989.4, 3777393.38	0.059034363	0.000947334	0.163960441	2.2E-01
100 UCAR	557009.4	3777393.38	557009.4, 3777393.38	0.053382375	0.000846645	0.145958807	2.0E-01
101 UCAR	557029.4	3777393.38	557029.4, 3777393.38	0.048259977	0.000756128	0.132920447	1.8E-01
102 UCAR	557049.4	3777393.38	557049.4, 3777393.38	0.043664824	0.000677749	0.123255349	1.7E-01
103 UCAR	557069.4	3777393.38	557069.4, 3777393.38	0.039558408	0.000610014	0.115351875	1.6E-01
104 UCAR	557089.4	3777393.38	557089.4, 3777393.38	0.035885896	0.000551481	0.108519386	1.4E-01
105 UCAR	557109.4	3777393.38	557109.4, 3777393.38	0.032600618	0.000500998	0.10257418	1.4E-01
106 UCAR	557129.4	3777393.38	557129.4, 3777393.38	0.029654745	0.000456015	0.096924243	1.3E-01
107 UCAR	557149.4	3777393.38	557149.4, 3777393.38	0.027019111	0.000417954	0.092269569	1.2E-01
108 UCAR	557169.4	3777393.38	557169.4, 3777393.38	0.024657552	0.000383948	0.08777992	1.1E-01
109 UCAR	557189.4	3777393.38	557189.4, 3777393.38	0.022545574	0.000354213	0.083679346	1.1E-01
110 UCAR	557209.4	3777393.38	557209.4, 3777393.38	0.020661012	0.000328535	0.080063869	1.0E-01
111 UCAR	557229.4	3777393.38	557229.4, 3777393.38	0.018977041	0.000305499	0.076511362	9.6E-02
112 UCAR	557249.4	3777393.38	557249.4, 3777393.38	0.017469169	0.000284345	0.07281937	9.1E-02
113 UCAR	557269.4	3777393.38	557269.4, 3777393.38	0.016121067	0.000265565	0.069354079	8.6E-02
114 UCAR	557289.4	3777393.38	557289.4, 3777393.38	0.014912909	0.000248535	0.065963733	8.1E-02
115 UCAR	557309.4	3777393.38	557309.4, 3777393.38	0.013827202	0.000232826	0.062561566	7.7E-02
116 UCAR	557329.4	3777393.38	557329.4, 3777393.38	0.012854615	0.000219234	0.059650203	7.3E-02
117 UCAR	557349.4	3777393.38	557349.4, 3777393.38	0.011976488	0.000206603	0.056751252	6.9E-02
118 UCAR	557369.4	3777393.38	557369.4, 3777393.38	0.011182327	0.00019512	0.054032826	6.5E-02
119 UCAR	557389.4	3777393.38	557389.4, 3777393.38	0.010463968	0.000184571	0.051450145	6.2E-02
120 UCAR	557409.4	3777393.38	557409.4, 3777393.38	0.009809749	0.000174692	0.048916827	5.9E-02
121 UCAR	557429.4	3777393.38	557429.4, 3777393.38	0.009215004	0.000165681	0.046582	5.6E-02
122 UCAR	557449.4	3777393.38	557449.4, 3777393.38	0.008673903	0.000157476	0.044449186	5.3E-02
123 UCAR	557469.4	3777393.38	557469.4, 3777393.38	0.008177118	0.000149672	0.042335357	5.1E-02
124 UCAR	557489.4	3777393.38	557489.4, 3777393.38	0.007721148	0.000142252	0.040257858	4.8E-02
125 UCAR	556509.4	3777413.38	556509.4, 3777413.38	0.057662533	0.000678182	0.111991906	1.7E-01
126 UCAR	556529.4	3777413.38	556529.4, 3777413.38	0.060629394	0.000720938	0.12236342	1.8E-01
127 UCAR	556549.4	3777413.38	556549.4, 3777413.38	0.063532125	0.000765233	0.134245176	2.0E-01
128 UCAR	556569.4	3777413.38	556569.4, 3777413.38	0.066355571	0.000810628	0.147742325	2.1E-01
129 UCAR	556589.4	3777413.38	556589.4, 3777413.38	0.069075246	0.000856903	0.163319365	2.3E-01
130 UCAR	556609.4	3777413.38	556609.4, 3777413.38	0.071655003	0.000903798	0.18153535	2.5E-01
131 UCAR	556629.4	3777413.38	556629.4, 3777413.38	0.074012049	0.00095128	0.20269816	2.8E-01
132 UCAR	556649.4	3777413.38	556649.4, 3777413.38	0.076103245	0.000996774	0.22341098	3.0E-01
133 UCAR	556669.4	3777413.38	556669.4, 3777413.38	0.077745501	0.001041453	0.240925754	3.2E-01
134 UCAR	556689.4	3777413.38	556689.4, 3777413.38	0.078887509	0.001083694	0.248575663	3.3E-01
135 UCAR	556709.4	3777413.38	556709.4, 3777413.38	0.079550249	0.001122966	0.243933569	3.2E-01

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
136 UCAR	556729.4	3777413.38	556729.4, 3777413.38	0.079899298	0.001157911	0.231961187	3.1E-01
137 UCAR	556749.4	3777413.38	556749.4, 3777413.38	0.080139875	0.00118794	0.222946755	3.0E-01
138 UCAR	556769.4	3777413.38	556769.4, 3777413.38	0.080364058	0.001214537	0.223006023	3.0E-01
139 UCAR	556789.4	3777413.38	556789.4, 3777413.38	0.080660478	0.001232771	0.226844271	3.1E-01
140 UCAR	556809.4	3777413.38	556809.4, 3777413.38	0.080781858	0.001244379	0.232808372	3.1E-01
141 UCAR	556829.4	3777413.38	556829.4, 3777413.38	0.080494979	0.00124408	0.238238474	3.2E-01
142 UCAR	556849.4	3777413.38	556849.4, 3777413.38	0.079465155	0.001231203	0.242641681	3.2E-01
143 UCAR	556869.4	3777413.38	556869.4, 3777413.38	0.077466162	0.001208694	0.245086796	3.2E-01
144 UCAR	556889.4	3777413.38	556889.4, 3777413.38	0.074485193	0.001171292	0.241335336	3.2E-01
145 UCAR	556909.4	3777413.38	556909.4, 3777413.38	0.070647019	0.001120559	0.231990671	3.0E-01
146 UCAR	556929.4	3777413.38	556929.4, 3777413.38	0.066187195	0.001059266	0.217912864	2.9E-01
147 UCAR	556949.4	3777413.38	556949.4, 3777413.38	0.061379779	0.000981805	0.195870201	2.6E-01
148 UCAR	556969.4	3777413.38	556969.4, 3777413.38	0.056476691	0.00090189	0.172490384	2.3E-01
149 UCAR	556989.4	3777413.38	556989.4, 3777413.38	0.05169489	0.000822174	0.15060862	2.0E-01
150 UCAR	557009.4	3777413.38	557009.4, 3777413.38	0.047182521	0.00074752	0.133370596	1.8E-01
151 UCAR	557029.4	3777413.38	557029.4, 3777413.38	0.043022404	0.000677635	0.120466435	1.6E-01
152 UCAR	557049.4	3777413.38	557049.4, 3777413.38	0.039242531	0.000615432	0.111278654	1.5E-01
153 UCAR	557069.4	3777413.38	557069.4, 3777413.38	0.035832399	0.000560087	0.104128098	1.4E-01
154 UCAR	557089.4	3777413.38	557089.4, 3777413.38	0.032757015	0.000511004	0.098067353	1.3E-01
155 UCAR	557109.4	3777413.38	557109.4, 3777413.38	0.029980216	0.000468	0.092849006	1.2E-01
156 UCAR	557129.4	3777413.38	557129.4, 3777413.38	0.027462345	0.000428531	0.0877399	1.2E-01
157 UCAR	557149.4	3777413.38	557149.4, 3777413.38	0.025187065	0.00039527	0.083731705	1.1E-01
158 UCAR	557169.4	3777413.38	557169.4, 3777413.38	0.023121719	0.000364666	0.079760768	1.0E-01
159 UCAR	557189.4	3777413.38	557189.4, 3777413.38	0.021254638	0.000337991	0.076344284	9.8E-02
160 UCAR	557209.4	3777413.38	557209.4, 3777413.38	0.019569492	0.000314506	0.0733078	9.3E-02
161 UCAR	557229.4	3777413.38	557229.4, 3777413.38	0.018046452	0.000292997	0.070249041	8.9E-02
162 UCAR	557249.4	3777413.38	557249.4, 3777413.38	0.01667269	0.000273718	0.067340068	8.4E-02
163 UCAR	557269.4	3777413.38	557269.4, 3777413.38	0.015436539	0.000256398	0.064558054	8.0E-02
164 UCAR	557289.4	3777413.38	557289.4, 3777413.38	0.014321674	0.00024064	0.061818982	7.6E-02
165 UCAR	557309.4	3777413.38	557309.4, 3777413.38	0.013314099	0.000226264	0.059128353	7.3E-02
166 UCAR	557329.4	3777413.38	557329.4, 3777413.38	0.012404484	0.000213003	0.056442307	6.9E-02
167 UCAR	557349.4	3777413.38	557349.4, 3777413.38	0.011582334	0.000201343	0.05407704	6.6E-02
168 UCAR	557369.4	3777413.38	557369.4, 3777413.38	0.010834818	0.000190165	0.051553263	6.3E-02
169 UCAR	557389.4	3777413.38	557389.4, 3777413.38	0.010157274	0.000180296	0.049341708	6.0E-02
170 UCAR	557409.4	3777413.38	557409.4, 3777413.38	0.009539205	0.000171113	0.047183518	5.7E-02
171 UCAR	557429.4	3777413.38	557429.4, 3777413.38	0.008973614	0.000162231	0.044921592	5.4E-02
172 UCAR	557449.4	3777413.38	557449.4, 3777413.38	0.008458169	0.00015435	0.042952118	5.2E-02
173 UCAR	557469.4	3777413.38	557469.4, 3777413.38	0.007987038	0.000147124	0.041130954	4.9E-02
174 UCAR	557489.4	3777413.38	557489.4, 3777413.38	0.007552059	0.000140108	0.039251066	4.7E-02
175 UCAR	556509.4	3777433.38	556509.4, 3777433.38	0.051446708	0.000627777	0.108949629	1.6E-01
176 UCAR	556529.4	3777433.38	556529.4, 3777433.38	0.053642717	0.000663318	0.118545709	1.7E-01
177 UCAR	556549.4	3777433.38	556549.4, 3777433.38	0.055772264	0.00069958	0.129395926	1.9E-01
178 UCAR	556569.4	3777433.38	556569.4, 3777433.38	0.057827188	0.000736267	0.141826484	2.0E-01
179 UCAR	556589.4	3777433.38	556589.4, 3777433.38	0.059762007	0.000774206	0.156981518	2.2E-01
180 UCAR	556609.4	3777433.38	556609.4, 3777433.38	0.061573229	0.000811813	0.173979379	2.4E-01

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
181 UCAR	556629.4	3777433.38	556629.4, 3777433.38	0.063188554	0.000848843	0.191713891	2.6E-01
182 UCAR	556649.4	3777433.38	556649.4, 3777433.38	0.064529854	0.000884388	0.206849037	2.7E-01
183 UCAR	556669.4	3777433.38	556669.4, 3777433.38	0.06552016	0.000917914	0.215059449	2.8E-01
184 UCAR	556689.4	3777433.38	556689.4, 3777433.38	0.066126811	0.00094973	0.214116527	2.8E-01
185 UCAR	556709.4	3777433.38	556709.4, 3777433.38	0.066464083	0.000977486	0.204518062	2.7E-01
186 UCAR	556729.4	3777433.38	556729.4, 3777433.38	0.066634571	0.001002235	0.195007463	2.6E-01
187 UCAR	556749.4	3777433.38	556749.4, 3777433.38	0.066824849	0.001021467	0.19044714	2.6E-01
188 UCAR	556769.4	3777433.38	556769.4, 3777433.38	0.067029047	0.001037826	0.192797499	2.6E-01
189 UCAR	556789.4	3777433.38	556789.4, 3777433.38	0.067290325	0.001046598	0.19637071	2.6E-01
190 UCAR	556809.4	3777433.38	556809.4, 3777433.38	0.067419743	0.001048728	0.200380118	2.7E-01
191 UCAR	556829.4	3777433.38	556829.4, 3777433.38	0.067217905	0.00104317	0.204676565	2.7E-01
192 UCAR	556849.4	3777433.38	556849.4, 3777433.38	0.066473754	0.001028219	0.207889523	2.8E-01
193 UCAR	556869.4	3777433.38	556869.4, 3777433.38	0.065025205	0.001008336	0.210067562	2.8E-01
194 UCAR	556889.4	3777433.38	556889.4, 3777433.38	0.062853614	0.000979344	0.207971327	2.7E-01
195 UCAR	556909.4	3777433.38	556909.4, 3777433.38	0.060034775	0.000942123	0.202069324	2.6E-01
196 UCAR	556929.4	3777433.38	556929.4, 3777433.38	0.056719113	0.000895677	0.191760219	2.5E-01
197 UCAR	556949.4	3777433.38	556949.4, 3777433.38	0.053081549	0.000842001	0.177138485	2.3E-01
198 UCAR	556969.4	3777433.38	556969.4, 3777433.38	0.049294689	0.000781906	0.158428878	2.1E-01
199 UCAR	556989.4	3777433.38	556989.4, 3777433.38	0.045518319	0.000721244	0.13945047	1.9E-01
200 UCAR	557009.4	3777433.38	557009.4, 3777433.38	0.041887738	0.000665319	0.123779678	1.7E-01
201 UCAR	557029.4	3777433.38	557029.4, 3777433.38	0.038482258	0.000610692	0.111067119	1.5E-01
202 UCAR	557049.4	3777433.38	557049.4, 3777433.38	0.0353497	0.00056082	0.101946125	1.4E-01
203 UCAR	557069.4	3777433.38	557069.4, 3777433.38	0.032494729	0.000514716	0.094956511	1.3E-01
204 UCAR	557089.4	3777433.38	557089.4, 3777433.38	0.029903347	0.000473188	0.089345325	1.2E-01
205 UCAR	557109.4	3777433.38	557109.4, 3777433.38	0.027547562	0.000436328	0.084634246	1.1E-01
206 UCAR	557129.4	3777433.38	557129.4, 3777433.38	0.025399383	0.000402368	0.080158293	1.1E-01
207 UCAR	557149.4	3777433.38	557149.4, 3777433.38	0.023438978	0.000372846	0.076432598	1.0E-01
208 UCAR	557169.4	3777433.38	557169.4, 3777433.38	0.021641856	0.000345416	0.072787408	9.5E-02
209 UCAR	557189.4	3777433.38	557189.4, 3777433.38	0.020001015	0.000321637	0.069803215	9.0E-02
210 UCAR	557209.4	3777433.38	557209.4, 3777433.38	0.018502457	0.000300277	0.067121675	8.6E-02
211 UCAR	557229.4	3777433.38	557229.4, 3777433.38	0.017134519	0.000280359	0.06440571	8.2E-02
212 UCAR	557249.4	3777433.38	557249.4, 3777433.38	0.015892533	0.000263075	0.062142868	7.8E-02
213 UCAR	557269.4	3777433.38	557269.4, 3777433.38	0.014762504	0.000247018	0.059826726	7.5E-02
214 UCAR	557289.4	3777433.38	557289.4, 3777433.38	0.013735101	0.000232195	0.057492216	7.1E-02
215 UCAR	557309.4	3777433.38	557309.4, 3777433.38	0.012804493	0.000219165	0.055437821	6.8E-02
216 UCAR	557329.4	3777433.38	557329.4, 3777433.38	0.011956684	0.000206728	0.053190391	6.5E-02
217 UCAR	557349.4	3777433.38	557349.4, 3777433.38	0.011184678	0.000195076	0.050882873	6.2E-02
218 UCAR	557369.4	3777433.38	557369.4, 3777433.38	0.010484976	0.000184854	0.048871524	6.0E-02
219 UCAR	557389.4	3777433.38	557389.4, 3777433.38	0.009849413	0.000175894	0.047143552	5.7E-02
220 UCAR	557409.4	3777433.38	557409.4, 3777433.38	0.009266329	0.000167247	0.045286138	5.5E-02
221 UCAR	557429.4	3777433.38	557429.4, 3777433.38	0.008729891	0.000158679	0.043211957	5.2E-02
222 UCAR	557449.4	3777433.38	557449.4, 3777433.38	0.008240101	0.000151163	0.041442584	5.0E-02
223 UCAR	557469.4	3777433.38	557469.4, 3777433.38	0.007791127	0.00014413	0.039724798	4.8E-02
224 UCAR	557489.4	3777433.38	557489.4, 3777433.38	0.007377138	0.000137574	0.03808171	4.6E-02
225 UCAR	556509.4	3777453.38	556509.4, 3777453.38	0.045811667	0.000581268	0.105629975	1.5E-01

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
226 UCAR	556529.4	3777453.38	556529.4, 3777453.38	0.047446735	0.00061091	0.11461415	1.6E-01
227 UCAR	556549.4	3777453.38	556549.4, 3777453.38	0.049018836	0.000641131	0.125136745	1.7E-01
228 UCAR	556569.4	3777453.38	556569.4, 3777453.38	0.050538466	0.000671007	0.137017581	1.9E-01
229 UCAR	556589.4	3777453.38	556589.4, 3777453.38	0.051956648	0.00070142	0.150999241	2.0E-01
230 UCAR	556609.4	3777453.38	556609.4, 3777453.38	0.053251228	0.000731018	0.165464541	2.2E-01
231 UCAR	556629.4	3777453.38	556629.4, 3777453.38	0.054337076	0.000760447	0.179251172	2.3E-01
232 UCAR	556649.4	3777453.38	556649.4, 3777453.38	0.055186208	0.000787806	0.187824051	2.4E-01
233 UCAR	556669.4	3777453.38	556669.4, 3777453.38	0.05576247	0.000812945	0.188544366	2.5E-01
234 UCAR	556689.4	3777453.38	556689.4, 3777453.38	0.056081011	0.000836059	0.182193865	2.4E-01
235 UCAR	556709.4	3777453.38	556709.4, 3777453.38	0.056249105	0.000855764	0.172625567	2.3E-01
236 UCAR	556729.4	3777453.38	556729.4, 3777453.38	0.056349529	0.000873193	0.166849024	2.2E-01
237 UCAR	556749.4	3777453.38	556749.4, 3777453.38	0.056497722	0.000886378	0.166140448	2.2E-01
238 UCAR	556769.4	3777453.38	556769.4, 3777453.38	0.056708835	0.000895138	0.168680249	2.3E-01
239 UCAR	556789.4	3777453.38	556789.4, 3777453.38	0.056935051	0.000898511	0.171658809	2.3E-01
240 UCAR	556809.4	3777453.38	556809.4, 3777453.38	0.057051595	0.000896653	0.174695536	2.3E-01
241 UCAR	556829.4	3777453.38	556829.4, 3777453.38	0.056898716	0.000890436	0.17860106	2.4E-01
242 UCAR	556849.4	3777453.38	556849.4, 3777453.38	0.05634932	0.00087724	0.18154032	2.4E-01
243 UCAR	556869.4	3777453.38	556869.4, 3777453.38	0.055272807	0.000860626	0.183559318	2.4E-01
244 UCAR	556889.4	3777453.38	556889.4, 3777453.38	0.053662189	0.000835778	0.18130454	2.4E-01
245 UCAR	556909.4	3777453.38	556909.4, 3777453.38	0.051551275	0.000807438	0.177346296	2.3E-01
246 UCAR	556929.4	3777453.38	556929.4, 3777453.38	0.049042683	0.000770805	0.169413145	2.2E-01
247 UCAR	556949.4	3777453.38	556949.4, 3777453.38	0.046251858	0.000730744	0.159181719	2.1E-01
248 UCAR	556969.4	3777453.38	556969.4, 3777453.38	0.04329892	0.000686186	0.14546274	1.9E-01
249 UCAR	556989.4	3777453.38	556989.4, 3777453.38	0.040296998	0.000639683	0.129940595	1.7E-01
250 UCAR	557009.4	3777453.38	557009.4, 3777453.38	0.037352224	0.000593931	0.115172189	1.5E-01
251 UCAR	557029.4	3777453.38	557029.4, 3777453.38	0.034547405	0.000550702	0.10303709	1.4E-01
252 UCAR	557049.4	3777453.38	557049.4, 3777453.38	0.031930359	0.000510245	0.093877168	1.3E-01
253 UCAR	557069.4	3777453.38	557069.4, 3777453.38	0.029524411	0.000473049	0.087233685	1.2E-01
254 UCAR	557089.4	3777453.38	557089.4, 3777453.38	0.02732373	0.000438325	0.081994171	1.1E-01
255 UCAR	557109.4	3777453.38	557109.4, 3777453.38	0.025314322	0.000406791	0.077696942	1.0E-01
256 UCAR	557129.4	3777453.38	557129.4, 3777453.38	0.023474026	0.000377526	0.073737505	9.8E-02
257 UCAR	557149.4	3777453.38	557149.4, 3777453.38	0.021785348	0.000351493	0.070322152	9.2E-02
258 UCAR	557169.4	3777453.38	557169.4, 3777453.38	0.020224963	0.000326816	0.066893451	8.7E-02
259 UCAR	557189.4	3777453.38	557189.4, 3777453.38	0.018789371	0.000305413	0.064113389	8.3E-02
260 UCAR	557209.4	3777453.38	557209.4, 3777453.38	0.017466906	0.000286258	0.061711325	7.9E-02
261 UCAR	557229.4	3777453.38	557229.4, 3777453.38	0.016245905	0.000268149	0.059293776	7.6E-02
262 UCAR	557249.4	3777453.38	557249.4, 3777453.38	0.015127534	0.000252376	0.057335359	7.3E-02
263 UCAR	557269.4	3777453.38	557269.4, 3777453.38	0.014100127	0.000237512	0.05532699	7.0E-02
264 UCAR	557289.4	3777453.38	557289.4, 3777453.38	0.013160187	0.000223902	0.053408032	6.7E-02
265 UCAR	557309.4	3777453.38	557309.4, 3777453.38	0.012301881	0.000211702	0.051669718	6.4E-02
266 UCAR	557329.4	3777453.38	557329.4, 3777453.38	0.011515879	0.000200262	0.049873093	6.2E-02
267 UCAR	557349.4	3777453.38	557349.4, 3777453.38	0.010797517	0.000189791	0.048138447	5.9E-02
268 UCAR	557369.4	3777453.38	557369.4, 3777453.38	0.010139796	0.000179724	0.046247562	5.7E-02
269 UCAR	557389.4	3777453.38	557389.4, 3777453.38	0.009539218	0.000170854	0.04459932	5.4E-02
270 UCAR	557409.4	3777453.38	557409.4, 3777453.38	0.008991119	0.000162937	0.043129072	5.2E-02

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
271 UCAR	557429.4	3777453.38	557429.4, 3777453.38	0.008486168	0.000155194	0.041500135	5.0E-02
272 UCAR	557449.4	3777453.38	557449.4, 3777453.38	0.008022033	0.000147992	0.039916219	4.8E-02
273 UCAR	557469.4	3777453.38	557469.4, 3777453.38	0.00759405	0.000141197	0.038340092	4.6E-02
274 UCAR	557489.4	3777453.38	557489.4, 3777453.38	0.007199885	0.00013477	0.036777261	4.4E-02
275 UCAR	556509.4	3777473.38	556509.4, 3777473.38	0.040805208	0.000538581	0.102297237	1.4E-01
276 UCAR	556529.4	3777473.38	556529.4, 3777473.38	0.042054259	0.000562815	0.11062468	1.5E-01
277 UCAR	556549.4	3777473.38	556549.4, 3777473.38	0.043250835	0.000587491	0.12058344	1.6E-01
278 UCAR	556569.4	3777473.38	556569.4, 3777473.38	0.044376279	0.000612629	0.132358087	1.8E-01
279 UCAR	556589.4	3777473.38	556589.4, 3777473.38	0.045429426	0.000636663	0.144343482	1.9E-01
280 UCAR	556609.4	3777473.38	556609.4, 3777473.38	0.04634614	0.00066008	0.155656611	2.0E-01
281 UCAR	556629.4	3777473.38	556629.4, 3777473.38	0.047073945	0.000682734	0.164156003	2.1E-01
282 UCAR	556649.4	3777473.38	556649.4, 3777473.38	0.047587183	0.000704055	0.167162225	2.2E-01
283 UCAR	556669.4	3777473.38	556669.4, 3777473.38	0.04790451	0.000722881	0.163111101	2.1E-01
284 UCAR	556689.4	3777473.38	556689.4, 3777473.38	0.048066731	0.000739452	0.155063475	2.0E-01
285 UCAR	556709.4	3777473.38	556709.4, 3777473.38	0.048144969	0.000754069	0.148164828	2.0E-01
286 UCAR	556729.4	3777473.38	556729.4, 3777473.38	0.048223175	0.000766274	0.145607057	1.9E-01
287 UCAR	556749.4	3777473.38	556749.4, 3777473.38	0.048373645	0.000774087	0.146377347	2.0E-01
288 UCAR	556769.4	3777473.38	556769.4, 3777473.38	0.048561387	0.000779136	0.14905014	2.0E-01
289 UCAR	556789.4	3777473.38	556789.4, 3777473.38	0.048759587	0.000779275	0.151259845	2.0E-01
290 UCAR	556809.4	3777473.38	556809.4, 3777473.38	0.048856295	0.000776112	0.15378086	2.0E-01
291 UCAR	556829.4	3777473.38	556829.4, 3777473.38	0.04874657	0.000769378	0.156852358	2.1E-01
292 UCAR	556849.4	3777473.38	556849.4, 3777473.38	0.048321971	0.000759089	0.159898772	2.1E-01
293 UCAR	556869.4	3777473.38	556869.4, 3777473.38	0.047507872	0.000745292	0.161660501	2.1E-01
294 UCAR	556889.4	3777473.38	556889.4, 3777473.38	0.04628562	0.000725111	0.159904614	2.1E-01
295 UCAR	556909.4	3777473.38	556909.4, 3777473.38	0.044676197	0.000702821	0.157056432	2.0E-01
296 UCAR	556929.4	3777473.38	556929.4, 3777473.38	0.042749571	0.000675307	0.151766281	2.0E-01
297 UCAR	556949.4	3777473.38	556949.4, 3777473.38	0.04058387	0.000643854	0.144175644	1.9E-01
298 UCAR	556969.4	3777473.38	556969.4, 3777473.38	0.038260728	0.000609041	0.133805817	1.7E-01
299 UCAR	556989.4	3777473.38	556989.4, 3777473.38	0.035860615	0.000572613	0.121431779	1.6E-01
300 UCAR	557009.4	3777473.38	557009.4, 3777473.38	0.033464003	0.000536421	0.108746903	1.4E-01
301 UCAR	557029.4	3777473.38	557029.4, 3777473.38	0.031138535	0.000500845	0.097147994	1.3E-01
302 UCAR	557049.4	3777473.38	557049.4, 3777473.38	0.028936692	0.000466997	0.087819835	1.2E-01
303 UCAR	557069.4	3777473.38	557069.4, 3777473.38	0.026891127	0.000435928	0.081026894	1.1E-01
304 UCAR	557089.4	3777473.38	557089.4, 3777473.38	0.025007671	0.00040635	0.0757793	1.0E-01
305 UCAR	557109.4	3777473.38	557109.4, 3777473.38	0.023280496	0.000379422	0.071754739	9.5E-02
306 UCAR	557129.4	3777473.38	557129.4, 3777473.38	0.021693272	0.000353866	0.068109227	9.0E-02
307 UCAR	557149.4	3777473.38	557149.4, 3777473.38	0.020233173	0.000331231	0.06508479	8.6E-02
308 UCAR	557169.4	3777473.38	557169.4, 3777473.38	0.018880372	0.000309325	0.061965166	8.1E-02
309 UCAR	557189.4	3777473.38	557189.4, 3777473.38	0.017626704	0.000290022	0.059347225	7.7E-02
310 UCAR	557209.4	3777473.38	557209.4, 3777473.38	0.01646284	0.000272527	0.05703254	7.4E-02
311 UCAR	557229.4	3777473.38	557229.4, 3777473.38	0.01538178	0.000256245	0.054855887	7.0E-02
312 UCAR	557249.4	3777473.38	557249.4, 3777473.38	0.014380025	0.000241805	0.053051341	6.8E-02
313 UCAR	557269.4	3777473.38	557269.4, 3777473.38	0.013451743	0.000228095	0.05123739	6.5E-02
314 UCAR	557289.4	3777473.38	557289.4, 3777473.38	0.012595767	0.000215576	0.049578902	6.2E-02
315 UCAR	557309.4	3777473.38	557309.4, 3777473.38	0.011806265	0.000204216	0.048074821	6.0E-02

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
316 UCAR	557329.4	3777473.38	557329.4, 3777473.38	0.011080904	0.000193748	0.046633541	5.8E-02
317 UCAR	557349.4	3777473.38	557349.4, 3777473.38	0.010413853	0.000183886	0.045150459	5.6E-02
318 UCAR	557369.4	3777473.38	557369.4, 3777473.38	0.009800446	0.000174806	0.043716595	5.4E-02
319 UCAR	557389.4	3777473.38	557389.4, 3777473.38	0.009236019	0.000166238	0.042237462	5.2E-02
320 UCAR	557409.4	3777473.38	557409.4, 3777473.38	0.00871824	0.000158539	0.040899558	5.0E-02
321 UCAR	557429.4	3777473.38	557429.4, 3777473.38	0.008241277	0.000151119	0.039461096	4.8E-02
322 UCAR	557449.4	3777473.38	557449.4, 3777473.38	0.007802797	0.000144581	0.038229233	4.6E-02
323 UCAR	557469.4	3777473.38	557469.4, 3777473.38	0.007398137	0.000138136	0.036855608	4.4E-02
324 UCAR	557489.4	3777473.38	557489.4, 3777473.38	0.007022631	0.000132044	0.035485426	4.3E-02
325 UCAR	556509.4	3777493.38	556509.4, 3777493.38	0.03641916	0.000499395	0.099204712	1.4E-01
326 UCAR	556529.4	3777493.38	556529.4, 3777493.38	0.037375486	0.000520143	0.107754266	1.5E-01
327 UCAR	556549.4	3777493.38	556549.4, 3777493.38	0.038301494	0.00054034	0.117166329	1.6E-01
328 UCAR	556569.4	3777493.38	556569.4, 3777493.38	0.039180858	0.000559324	0.126551879	1.7E-01
329 UCAR	556589.4	3777493.38	556589.4, 3777493.38	0.039951773	0.000578567	0.136219426	1.8E-01
330 UCAR	556609.4	3777493.38	556609.4, 3777493.38	0.040580421	0.000597591	0.144377963	1.9E-01
331 UCAR	556629.4	3777493.38	556629.4, 3777493.38	0.041055142	0.000614823	0.147887077	1.9E-01
332 UCAR	556649.4	3777493.38	556649.4, 3777493.38	0.041357274	0.000630878	0.146300364	1.9E-01
333 UCAR	556669.4	3777493.38	556669.4, 3777493.38	0.041507802	0.000645893	0.140830844	1.8E-01
334 UCAR	556689.4	3777493.38	556689.4, 3777493.38	0.04158252	0.000658139	0.133743478	1.8E-01
335 UCAR	556709.4	3777493.38	556709.4, 3777493.38	0.041632728	0.00066856	0.129444354	1.7E-01
336 UCAR	556729.4	3777493.38	556729.4, 3777493.38	0.041700399	0.000677365	0.129231931	1.7E-01
337 UCAR	556749.4	3777493.38	556749.4, 3777493.38	0.041849672	0.000681641	0.130536483	1.7E-01
338 UCAR	556769.4	3777493.38	556769.4, 3777493.38	0.042019902	0.000684209	0.13283272	1.8E-01
339 UCAR	556789.4	3777493.38	556789.4, 3777493.38	0.042191271	0.000682793	0.13448544	1.8E-01
340 UCAR	556809.4	3777493.38	556809.4, 3777493.38	0.042277488	0.000678549	0.136283341	1.8E-01
341 UCAR	556829.4	3777493.38	556829.4, 3777493.38	0.042188766	0.000673074	0.139184591	1.8E-01
342 UCAR	556849.4	3777493.38	556849.4, 3777493.38	0.041863311	0.00066392	0.141578101	1.8E-01
343 UCAR	556869.4	3777493.38	556869.4, 3777493.38	0.041233488	0.000652774	0.143230228	1.9E-01
344 UCAR	556889.4	3777493.38	556889.4, 3777493.38	0.04028764	0.000637127	0.142298074	1.8E-01
345 UCAR	556909.4	3777493.38	556909.4, 3777493.38	0.039039756	0.000619185	0.140134528	1.8E-01
346 UCAR	556929.4	3777493.38	556929.4, 3777493.38	0.037538811	0.000597248	0.136156057	1.7E-01
347 UCAR	556949.4	3777493.38	556949.4, 3777493.38	0.035839613	0.000572412	0.130618617	1.7E-01
348 UCAR	556969.4	3777493.38	556969.4, 3777493.38	0.033994639	0.000544506	0.122729061	1.6E-01
349 UCAR	556989.4	3777493.38	556989.4, 3777493.38	0.032064533	0.000515861	0.113261648	1.5E-01
350 UCAR	557009.4	3777493.38	557009.4, 3777493.38	0.030104108	0.000486753	0.102702093	1.3E-01
351 UCAR	557029.4	3777493.38	557029.4, 3777493.38	0.02817051	0.00045738	0.09212791	1.2E-01
352 UCAR	557049.4	3777493.38	557049.4, 3777493.38	0.026311552	0.000429048	0.083011492	1.1E-01
353 UCAR	557069.4	3777493.38	557069.4, 3777493.38	0.024561056	0.000402625	0.076003435	1.0E-01
354 UCAR	557089.4	3777493.38	557089.4, 3777493.38	0.022935346	0.000377219	0.070588888	9.4E-02
355 UCAR	557109.4	3777493.38	557109.4, 3777493.38	0.021439088	0.000354338	0.066708101	8.9E-02
356 UCAR	557129.4	3777493.38	557129.4, 3777493.38	0.020061788	0.000332126	0.063303031	8.4E-02
357 UCAR	557149.4	3777493.38	557149.4, 3777493.38	0.018791782	0.000311912	0.060444329	8.0E-02
358 UCAR	557169.4	3777493.38	557169.4, 3777493.38	0.017613912	0.000292917	0.057753619	7.6E-02
359 UCAR	557189.4	3777493.38	557189.4, 3777493.38	0.01651768	0.000275127	0.05519225	7.2E-02
360 UCAR	557209.4	3777493.38	557209.4, 3777493.38	0.015497256	0.000259493	0.05307696	6.9E-02

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
361 UCAR	557229.4	3777493.38	557229.4, 3777493.38	0.014542144	0.000244635	0.051009983	6.6E-02
362 UCAR	557249.4	3777493.38	557249.4, 3777493.38	0.013650009	0.000231171	0.04921118	6.3E-02
363 UCAR	557269.4	3777493.38	557269.4, 3777493.38	0.012817353	0.00021885	0.047615875	6.1E-02
364 UCAR	557289.4	3777493.38	557289.4, 3777493.38	0.012041842	0.000207368	0.0461245	5.8E-02
365 UCAR	557309.4	3777493.38	557309.4, 3777493.38	0.011319977	0.000196654	0.044707459	5.6E-02
366 UCAR	557329.4	3777493.38	557329.4, 3777493.38	0.010652924	0.000186886	0.043431886	5.4E-02
367 UCAR	557349.4	3777493.38	557349.4, 3777493.38	0.010034852	0.000177853	0.042223659	5.2E-02
368 UCAR	557369.4	3777493.38	557369.4, 3777493.38	0.009463427	0.000169369	0.041012965	5.1E-02
369 UCAR	557389.4	3777493.38	557389.4, 3777493.38	0.008936318	0.000161573	0.039868237	4.9E-02
370 UCAR	557409.4	3777493.38	557409.4, 3777493.38	0.008450025	0.000154256	0.03871599	4.7E-02
371 UCAR	557429.4	3777493.38	557429.4, 3777493.38	0.007998717	0.000147008	0.037387114	4.6E-02
372 UCAR	557449.4	3777493.38	557449.4, 3777493.38	0.007583561	0.000140711	0.036291637	4.4E-02
373 UCAR	557469.4	3777493.38	557469.4, 3777493.38	0.007201058	0.000134872	0.035233822	4.3E-02
374 UCAR	557489.4	3777493.38	557489.4, 3777493.38	0.006845377	0.000129161	0.03407631	4.1E-02
375 UCAR	556509.4	3777513.38	556509.4, 3777513.38	0.032611536	0.000463385	0.096389986	1.3E-01
376 UCAR	556529.4	3777513.38	556529.4, 3777513.38	0.033370766	0.000480325	0.104338988	1.4E-01
377 UCAR	556549.4	3777513.38	556549.4, 3777513.38	0.034096177	0.00049649	0.112545369	1.5E-01
378 UCAR	556569.4	3777513.38	556569.4, 3777513.38	0.034734128	0.000513583	0.121808211	1.6E-01
379 UCAR	556589.4	3777513.38	556589.4, 3777513.38	0.035291618	0.000528885	0.128766328	1.6E-01
380 UCAR	556609.4	3777513.38	556609.4, 3777513.38	0.035728998	0.000542871	0.132369523	1.7E-01
381 UCAR	556629.4	3777513.38	556629.4, 3777513.38	0.03601128	0.000557113	0.132915618	1.7E-01
382 UCAR	556649.4	3777513.38	556649.4, 3777513.38	0.036176947	0.000569308	0.128648633	1.7E-01
383 UCAR	556669.4	3777513.38	556669.4, 3777513.38	0.036252813	0.000580064	0.122370681	1.6E-01
384 UCAR	556689.4	3777513.38	556689.4, 3777513.38	0.036293684	0.000588609	0.116876476	1.5E-01
385 UCAR	556709.4	3777513.38	556709.4, 3777513.38	0.036332201	0.00059623	0.114921612	1.5E-01
386 UCAR	556729.4	3777513.38	556729.4, 3777513.38	0.036403347	0.0006024	0.115926506	1.5E-01
387 UCAR	556749.4	3777513.38	556749.4, 3777513.38	0.036542108	0.000604892	0.117456459	1.5E-01
388 UCAR	556769.4	3777513.38	556769.4, 3777513.38	0.036691339	0.000606194	0.119402843	1.6E-01
389 UCAR	556789.4	3777513.38	556789.4, 3777513.38	0.036837054	0.000604298	0.120740219	1.6E-01
390 UCAR	556809.4	3777513.38	556809.4, 3777513.38	0.036913951	0.000599588	0.121978285	1.6E-01
391 UCAR	556829.4	3777513.38	556829.4, 3777513.38	0.036847401	0.000594445	0.124315779	1.6E-01
392 UCAR	556849.4	3777513.38	556849.4, 3777513.38	0.036590766	0.000586707	0.1263451	1.6E-01
393 UCAR	556869.4	3777513.38	556869.4, 3777513.38	0.036096237	0.00057758	0.127827761	1.6E-01
394 UCAR	556889.4	3777513.38	556889.4, 3777513.38	0.035352152	0.000565449	0.127513067	1.6E-01
395 UCAR	556909.4	3777513.38	556909.4, 3777513.38	0.034372505	0.000550145	0.125478586	1.6E-01
396 UCAR	556929.4	3777513.38	556929.4, 3777513.38	0.033186445	0.00053303	0.122754814	1.6E-01
397 UCAR	556949.4	3777513.38	556949.4, 3777513.38	0.03183712	0.000513143	0.118676744	1.5E-01
398 UCAR	556969.4	3777513.38	556969.4, 3777513.38	0.030360681	0.00049064	0.112746863	1.4E-01
399 UCAR	556989.4	3777513.38	556989.4, 3777513.38	0.028796778	0.000467027	0.105254757	1.3E-01
400 UCAR	557009.4	3777513.38	557009.4, 3777513.38	0.027188562	0.000443377	0.096730713	1.2E-01
401 UCAR	557029.4	3777513.38	557029.4, 3777513.38	0.025574519	0.000419046	0.087492053	1.1E-01
402 UCAR	557049.4	3777513.38	557049.4, 3777513.38	0.024001295	0.000395564	0.079046473	1.0E-01
403 UCAR	557069.4	3777513.38	557069.4, 3777513.38	0.02249688	0.000372609	0.07187389	9.5E-02
404 UCAR	557089.4	3777513.38	557089.4, 3777513.38	0.021088095	0.000350938	0.066359625	8.8E-02
405 UCAR	557109.4	3777513.38	557109.4, 3777513.38	0.019780771	0.000330801	0.062280643	8.2E-02

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
406 UCAR	557129.4	3777513.38	557129.4, 3777513.38	0.018574908	0.000311752	0.059065354	7.8E-02
407 UCAR	557149.4	3777513.38	557149.4, 3777513.38	0.017462343	0.000294065	0.056425606	7.4E-02
408 UCAR	557169.4	3777513.38	557169.4, 3777513.38	0.016431415	0.000277278	0.053996834	7.1E-02
409 UCAR	557189.4	3777513.38	557189.4, 3777513.38	0.015470463	0.000261315	0.051654808	6.7E-02
410 UCAR	557209.4	3777513.38	557209.4, 3777513.38	0.014574821	0.000247226	0.04970321	6.5E-02
411 UCAR	557229.4	3777513.38	557229.4, 3777513.38	0.013731661	0.0002335	0.047696627	6.2E-02
412 UCAR	557249.4	3777513.38	557249.4, 3777513.38	0.012942149	0.000221421	0.046062212	5.9E-02
413 UCAR	557269.4	3777513.38	557269.4, 3777513.38	0.012196955	0.00020991	0.044477794	5.7E-02
414 UCAR	557289.4	3777513.38	557289.4, 3777513.38	0.011498411	0.000199225	0.043034758	5.5E-02
415 UCAR	557309.4	3777513.38	557309.4, 3777513.38	0.010844184	0.000189519	0.041791607	5.3E-02
416 UCAR	557329.4	3777513.38	557329.4, 3777513.38	0.010233107	0.000180439	0.0406272	5.1E-02
417 UCAR	557349.4	3777513.38	557349.4, 3777513.38	0.009662848	0.000171914	0.039509746	4.9E-02
418 UCAR	557369.4	3777513.38	557369.4, 3777513.38	0.009132239	0.000163921	0.038428569	4.8E-02
419 UCAR	557389.4	3777513.38	557389.4, 3777513.38	0.00864128	0.000156616	0.03744608	4.6E-02
420 UCAR	557409.4	3777513.38	557409.4, 3777513.38	0.008185308	0.000149812	0.036495852	4.5E-02
421 UCAR	557429.4	3777513.38	557429.4, 3777513.38	0.007760822	0.000143177	0.035444018	4.3E-02
422 UCAR	557449.4	3777513.38	557449.4, 3777513.38	0.007368989	0.000137061	0.034446211	4.2E-02
423 UCAR	557469.4	3777513.38	557469.4, 3777513.38	0.007005145	0.000131394	0.03348809	4.1E-02
424 UCAR	557489.4	3777513.38	557489.4, 3777513.38	0.006668122	0.00012609	0.032544257	3.9E-02
425 UCAR	556509.4	3777533.38	556509.4, 3777533.38	0.029313531	0.000430294	0.093696104	1.2E-01
426 UCAR	556529.4	3777533.38	556529.4, 3777533.38	0.029915316	0.000444477	0.101128316	1.3E-01
427 UCAR	556549.4	3777533.38	556549.4, 3777533.38	0.030473954	0.000457886	0.108290518	1.4E-01
428 UCAR	556569.4	3777533.38	556569.4, 3777533.38	0.030960291	0.000470793	0.114591296	1.5E-01
429 UCAR	556589.4	3777533.38	556589.4, 3777533.38	0.031351007	0.000482942	0.118730058	1.5E-01
430 UCAR	556609.4	3777533.38	556609.4, 3777533.38	0.031629773	0.000494451	0.119790122	1.5E-01
431 UCAR	556629.4	3777533.38	556629.4, 3777533.38	0.031797755	0.000505088	0.117317335	1.5E-01
432 UCAR	556649.4	3777533.38	556649.4, 3777533.38	0.031879439	0.000514469	0.11222525	1.4E-01
433 UCAR	556669.4	3777533.38	556669.4, 3777533.38	0.031916803	0.000521945	0.10663131	1.4E-01
434 UCAR	556689.4	3777533.38	556689.4, 3777533.38	0.031936661	0.000528703	0.103513338	1.4E-01
435 UCAR	556709.4	3777533.38	556709.4, 3777533.38	0.031970495	0.000534669	0.10335645	1.4E-01
436 UCAR	556729.4	3777533.38	556729.4, 3777533.38	0.032047459	0.000538784	0.104799385	1.4E-01
437 UCAR	556749.4	3777533.38	556749.4, 3777533.38	0.032171052	0.000540402	0.106339422	1.4E-01
438 UCAR	556769.4	3777533.38	556769.4, 3777533.38	0.032308621	0.000540476	0.107731833	1.4E-01
439 UCAR	556789.4	3777533.38	556789.4, 3777533.38	0.032427518	0.000538878	0.109005269	1.4E-01
440 UCAR	556809.4	3777533.38	556809.4, 3777533.38	0.032492763	0.000534566	0.110036141	1.4E-01
441 UCAR	556829.4	3777533.38	556829.4, 3777533.38	0.032439054	0.000530245	0.112113591	1.5E-01
442 UCAR	556849.4	3777533.38	556849.4, 3777533.38	0.032237243	0.000523148	0.113584475	1.5E-01
443 UCAR	556869.4	3777533.38	556869.4, 3777533.38	0.031843017	0.000515347	0.114775129	1.5E-01
444 UCAR	556889.4	3777533.38	556889.4, 3777533.38	0.031249381	0.000505784	0.114826359	1.5E-01
445 UCAR	556909.4	3777533.38	556909.4, 3777533.38	0.030467996	0.000493524	0.113395621	1.4E-01
446 UCAR	556929.4	3777533.38	556929.4, 3777533.38	0.029521015	0.000479197	0.111110441	1.4E-01
447 UCAR	556949.4	3777533.38	556949.4, 3777533.38	0.028437592	0.000462845	0.107946995	1.4E-01
448 UCAR	556969.4	3777533.38	556969.4, 3777533.38	0.027244548	0.000444317	0.103389477	1.3E-01
449 UCAR	556989.4	3777533.38	556989.4, 3777533.38	0.025969872	0.000424972	0.097655032	1.2E-01
450 UCAR	557009.4	3777533.38	557009.4, 3777533.38	0.024643886	0.000405359	0.090823452	1.2E-01

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
451 UCAR	557029.4	3777533.38	557029.4, 3777533.38	0.023295746	0.000385162	0.08304284	1.1E-01
452 UCAR	557049.4	3777533.38	557049.4, 3777533.38	0.021959271	0.000365339	0.075392537	9.8E-02
453 UCAR	557069.4	3777533.38	557069.4, 3777533.38	0.020665947	0.000345946	0.068539996	9.0E-02
454 UCAR	557089.4	3777533.38	557089.4, 3777533.38	0.019439097	0.000327241	0.062938227	8.3E-02
455 UCAR	557109.4	3777533.38	557109.4, 3777533.38	0.018291549	0.000309587	0.058669276	7.7E-02
456 UCAR	557129.4	3777533.38	557129.4, 3777533.38	0.017229134	0.000293153	0.055487359	7.3E-02
457 UCAR	557149.4	3777533.38	557149.4, 3777533.38	0.016246021	0.000277597	0.052939856	6.9E-02
458 UCAR	557169.4	3777533.38	557169.4, 3777533.38	0.01533638	0.00026242	0.050603857	6.6E-02
459 UCAR	557189.4	3777533.38	557189.4, 3777533.38	0.014489716	0.000248236	0.048502499	6.3E-02
460 UCAR	557209.4	3777533.38	557209.4, 3777533.38	0.013700197	0.000235547	0.046721215	6.1E-02
461 UCAR	557229.4	3777533.38	557229.4, 3777533.38	0.012954997	0.000222849	0.044794261	5.8E-02
462 UCAR	557249.4	3777533.38	557249.4, 3777533.38	0.01225528	0.000211829	0.043255216	5.6E-02
463 UCAR	557269.4	3777533.38	557269.4, 3777533.38	0.011592884	0.000201214	0.041731526	5.4E-02
464 UCAR	557289.4	3777533.38	557289.4, 3777533.38	0.010966643	0.000191484	0.040391178	5.2E-02
465 UCAR	557309.4	3777533.38	557309.4, 3777533.38	0.010376554	0.000182433	0.039178381	5.0E-02
466 UCAR	557329.4	3777533.38	557329.4, 3777533.38	0.009820287	0.000173991	0.038073142	4.8E-02
467 UCAR	557349.4	3777533.38	557349.4, 3777533.38	0.00929784	0.000166128	0.037064867	4.7E-02
468 UCAR	557369.4	3777533.38	557369.4, 3777533.38	0.008808047	0.00015866	0.036083207	4.5E-02
469 UCAR	557389.4	3777533.38	557389.4, 3777533.38	0.008349741	0.000151562	0.035111958	4.4E-02
470 UCAR	557409.4	3777533.38	557409.4, 3777533.38	0.007924088	0.000145262	0.034315361	4.2E-02
471 UCAR	557429.4	3777533.38	557429.4, 3777533.38	0.007526425	0.000139155	0.033462396	4.1E-02
472 UCAR	557449.4	3777533.38	557449.4, 3777533.38	0.007157915	0.000133485	0.032650972	4.0E-02
473 UCAR	557469.4	3777533.38	557469.4, 3777533.38	0.006812729	0.000127966	0.031766872	3.9E-02
474 UCAR	557489.4	3777533.38	557489.4, 3777533.38	0.006492033	0.000122829	0.030913762	3.8E-02
475 UCAR	556509.4	3777553.38	556509.4, 3777553.38	0.026449346	0.000400164	0.091099402	1.2E-01
476 UCAR	556529.4	3777553.38	556529.4, 3777553.38	0.026927508	0.000411732	0.097451402	1.2E-01
477 UCAR	556549.4	3777553.38	556549.4, 3777553.38	0.027355526	0.000422486	0.102923089	1.3E-01
478 UCAR	556569.4	3777553.38	556569.4, 3777553.38	0.027706578	0.00043305	0.107215386	1.4E-01
479 UCAR	556589.4	3777553.38	556589.4, 3777553.38	0.027969005	0.000442948	0.109024602	1.4E-01
480 UCAR	556609.4	3777553.38	556609.4, 3777553.38	0.028145138	0.000451632	0.107421994	1.4E-01
481 UCAR	556629.4	3777553.38	556629.4, 3777553.38	0.02823614	0.000459781	0.1035233	1.3E-01
482 UCAR	556649.4	3777553.38	556649.4, 3777553.38	0.028269997	0.000467005	0.098691492	1.3E-01
483 UCAR	556669.4	3777553.38	556669.4, 3777553.38	0.028289853	0.000472141	0.094410229	1.2E-01
484 UCAR	556689.4	3777553.38	556689.4, 3777553.38	0.028307365	0.000477066	0.092906311	1.2E-01
485 UCAR	556709.4	3777553.38	556709.4, 3777553.38	0.028345853	0.000481632	0.093730613	1.2E-01
486 UCAR	556729.4	3777553.38	556729.4, 3777553.38	0.028423976	0.000484479	0.095282144	1.2E-01
487 UCAR	556749.4	3777553.38	556749.4, 3777553.38	0.028542901	0.000484794	0.096357227	1.3E-01
488 UCAR	556769.4	3777553.38	556769.4, 3777553.38	0.028661814	0.000484577	0.097496033	1.3E-01
489 UCAR	556789.4	3777553.38	556789.4, 3777553.38	0.028758559	0.000483406	0.098733419	1.3E-01
490 UCAR	556809.4	3777553.38	556809.4, 3777553.38	0.028809819	0.000480039	0.099818437	1.3E-01
491 UCAR	556829.4	3777553.38	556829.4, 3777553.38	0.028767782	0.000476044	0.101485336	1.3E-01
492 UCAR	556849.4	3777553.38	556849.4, 3777553.38	0.028602134	0.000470257	0.102860653	1.3E-01
493 UCAR	556869.4	3777553.38	556869.4, 3777553.38	0.028284886	0.000463664	0.10388622	1.3E-01
494 UCAR	556889.4	3777553.38	556889.4, 3777553.38	0.027806711	0.0004557	0.103996139	1.3E-01
495 UCAR	556909.4	3777553.38	556909.4, 3777553.38	0.027174605	0.000445872	0.103050156	1.3E-01

Construction and Operational Risk Combined

Discrete Receptor ID				Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
496	UCAR	556929.4	3777553.38	556929.4, 3777553.38	0.02640839	0.000434474	0.10147957	1.3E-01
497	UCAR	556949.4	3777553.38	556949.4, 3777553.38	0.025530224	0.000419784	0.098388913	1.2E-01
498	UCAR	556969.4	3777553.38	556969.4, 3777553.38	0.024558763	0.000404702	0.095016279	1.2E-01
499	UCAR	556989.4	3777553.38	556989.4, 3777553.38	0.023511502	0.000388167	0.090368389	1.1E-01
500	UCAR	557009.4	3777553.38	557009.4, 3777553.38	0.022414097	0.000371776	0.084975761	1.1E-01
501	UCAR	557029.4	3777553.38	557029.4, 3777553.38	0.021282876	0.000354688	0.078496879	1.0E-01
502	UCAR	557049.4	3777553.38	557049.4, 3777553.38	0.020149325	0.000338068	0.071878132	9.2E-02
503	UCAR	557069.4	3777553.38	557069.4, 3777553.38	0.019035601	0.000321593	0.065536887	8.5E-02
504	UCAR	557089.4	3777553.38	557089.4, 3777553.38	0.017965028	0.00030543	0.060010748	7.8E-02
505	UCAR	557109.4	3777553.38	557109.4, 3777553.38	0.016953931	0.000289837	0.055568521	7.3E-02
506	UCAR	557129.4	3777553.38	557129.4, 3777553.38	0.016011639	0.000275414	0.052279181	6.9E-02
507	UCAR	557149.4	3777553.38	557149.4, 3777553.38	0.015138152	0.00026171	0.049729896	6.5E-02
508	UCAR	557169.4	3777553.38	557169.4, 3777553.38	0.014327641	0.000248426	0.047560038	6.2E-02
509	UCAR	557189.4	3777553.38	557189.4, 3777553.38	0.013576605	0.00023584	0.045650858	5.9E-02
510	UCAR	557209.4	3777553.38	557209.4, 3777553.38	0.012875718	0.00022406	0.043919622	5.7E-02
511	UCAR	557229.4	3777553.38	557229.4, 3777553.38	0.012215649	0.000212823	0.042243746	5.5E-02
512	UCAR	557249.4	3777553.38	557249.4, 3777553.38	0.011594067	0.0002024	0.040699834	5.2E-02
513	UCAR	557269.4	3777553.38	557269.4, 3777553.38	0.01100514	0.000192785	0.039302507	5.1E-02
514	UCAR	557289.4	3777553.38	557289.4, 3777553.38	0.010446535	0.000183856	0.03803259	4.9E-02
515	UCAR	557309.4	3777553.38	557309.4, 3777553.38	0.009915921	0.000175476	0.036861984	4.7E-02
516	UCAR	557329.4	3777553.38	557329.4, 3777553.38	0.009413297	0.000167629	0.035793251	4.5E-02
517	UCAR	557349.4	3777553.38	557349.4, 3777553.38	0.008937497	0.00016037	0.034849163	4.4E-02
518	UCAR	557369.4	3777553.38	557369.4, 3777553.38	0.008488519	0.000153507	0.03396487	4.3E-02
519	UCAR	557389.4	3777553.38	557389.4, 3777553.38	0.008064032	0.00014686	0.033069787	4.1E-02
520	UCAR	557409.4	3777553.38	557409.4, 3777553.38	0.007667534	0.000140821	0.032301374	4.0E-02
521	UCAR	557429.4	3777553.38	557429.4, 3777553.38	0.007295525	0.000135094	0.031550205	3.9E-02
522	UCAR	557449.4	3777553.38	557449.4, 3777553.38	0.006949173	0.00012976	0.030846079	3.8E-02
523	UCAR	557469.4	3777553.38	557469.4, 3777553.38	0.006623812	0.000124644	0.030119729	3.7E-02
524	UCAR	557489.4	3777553.38	557489.4, 3777553.38	0.006319442	0.000119648	0.02933108	3.6E-02
525	1	557438.91	3777336.71	557438.91, 3777336.7	0.009549672	0.000168975	0.049354877	5.9E-02
526	1	556615.91	3777136.99	556615.91, 3777136.9	0.112776741	0.003210475	0.149570795	2.7E-01
527	1	556586.37	3777056.16	556586.37, 3777056.1	0.054092714	0.001063451	0.090618081	1.5E-01
528	UCAR	556672.35	3776929.14	556672.35, 3776929.1	0.0476554	0.000732967	0.076813092	1.3E-01
529	UCAR	556692.35	3776929.14	556692.35, 3776929.1	0.053233105	0.000791189	0.082702758	1.4E-01
530	UCAR	556712.35	3776929.14	556712.35, 3776929.1	0.059699351	0.000852541	0.088619572	1.5E-01
531	UCAR	556732.35	3776929.14	556732.35, 3776929.1	0.066637795	0.000910541	0.094199282	1.6E-01
532	UCAR	556752.35	3776929.14	556752.35, 3776929.1	0.074454228	0.00096825	0.100412023	1.8E-01
533	UCAR	556772.35	3776929.14	556772.35, 3776929.1	0.081398281	0.001008887	0.107478492	1.9E-01
534	UCAR	556792.35	3776929.14	556792.35, 3776929.1	0.088366728	0.001039845	0.116495333	2.1E-01
535	UCAR	556812.35	3776929.14	556812.35, 3776929.1	0.096214328	0.001077403	0.128013931	2.3E-01
536	UCAR	556832.35	3776929.14	556832.35, 3776929.1	0.102681195	0.001100092	0.141827937	2.5E-01
537	UCAR	556852.35	3776929.14	556852.35, 3776929.1	0.110471518	0.001129255	0.16266062	2.7E-01
538	UCAR	556672.35	3776949.14	556672.35, 3776949.1	0.053179954	0.000826373	0.083435302	1.4E-01
539	UCAR	556692.35	3776949.14	556692.35, 3776949.1	0.059878347	0.000897326	0.090644152	1.5E-01
540	UCAR	556712.35	3776949.14	556712.35, 3776949.1	0.067618	0.000969103	0.097994089	1.7E-01

Construction and Operational Risk Combined

Discrete Receptor ID				Construction	Operations	Benzene Operations	
	X	Y	X, Y	Risk	Risk	Risk	Total Risk
541 UCAR	556732.35	3776949.14	556732.35, 3776949.1	0.076254272	0.001035669	0.105092262	1.8E-01
542 UCAR	556752.35	3776949.14	556752.35, 3776949.1	0.085448964	0.001092029	0.112163217	2.0E-01
543 UCAR	556772.35	3776949.14	556772.35, 3776949.1	0.095232397	0.00113927	0.12074268	2.2E-01
544 UCAR	556792.35	3776949.14	556792.35, 3776949.1	0.105531116	0.001183586	0.132013563	2.4E-01
545 UCAR	556812.35	3776949.14	556812.35, 3776949.1	0.115568508	0.001218884	0.145838875	2.6E-01
546 UCAR	556832.35	3776949.14	556832.35, 3776949.1	0.124112059	0.001243365	0.162928877	2.9E-01
547 UCAR	556852.35	3776949.14	556852.35, 3776949.1	0.134346383	0.001276075	0.189167143	3.2E-01
548 UCAR	556672.35	3776969.14	556672.35, 3776969.1	0.059673769	0.00094055	0.090641959	1.5E-01
549 UCAR	556692.35	3776969.14	556692.35, 3776969.1	0.067752912	0.001027941	0.09949243	1.7E-01
550 UCAR	556712.35	3776969.14	556712.35, 3776969.1	0.077360699	0.001114621	0.108819397	1.9E-01
551 UCAR	556732.35	3776969.14	556732.35, 3776969.1	0.088353631	0.001191668	0.118088687	2.1E-01
552 UCAR	556752.35	3776969.14	556752.35, 3776969.1	0.100370186	0.001253597	0.1270927	2.3E-01
553 UCAR	556772.35	3776969.14	556772.35, 3776969.1	0.113284442	0.001302592	0.137262231	2.5E-01
554 UCAR	556792.35	3776969.14	556792.35, 3776969.1	0.127110425	0.001349505	0.150655672	2.8E-01
555 UCAR	556812.35	3776969.14	556812.35, 3776969.1	0.140380048	0.001387091	0.167446247	3.1E-01
556 UCAR	556832.35	3776969.14	556832.35, 3776969.1	0.153075877	0.001419703	0.189578961	3.4E-01
557 UCAR	556852.35	3776969.14	556852.35, 3776969.1	0.166699859	0.001457586	0.223271602	3.9E-01
558 UCAR	556672.35	3776989.14	556672.35, 3776989.1	0.067351508	0.001082599	0.098435938	1.7E-01
559 UCAR	556692.35	3776989.14	556692.35, 3776989.1	0.077165928	0.001191417	0.10927225	1.9E-01
560 UCAR	556712.35	3776989.14	556712.35, 3776989.1	0.089147936	0.00129615	0.121084957	2.1E-01
561 UCAR	556732.35	3776989.14	556732.35, 3776989.1	0.103228631	0.001384319	0.133236652	2.4E-01
562 UCAR	556752.35	3776989.14	556752.35, 3776989.1	0.11920859	0.001451417	0.14517205	2.7E-01
563 UCAR	556772.35	3776989.14	556772.35, 3776989.1	0.136672721	0.001501566	0.15777573	3.0E-01
564 UCAR	556792.35	3776989.14	556792.35, 3776989.1	0.155815835	0.001547874	0.173998366	3.3E-01
565 UCAR	556812.35	3776989.14	556812.35, 3776989.1	0.174036432	0.00159038	0.194620521	3.7E-01
566 UCAR	556832.35	3776989.14	556832.35, 3776989.1	0.192310595	0.0016377	0.223264816	4.2E-01
567 UCAR	556852.35	3776989.14	556852.35, 3776989.1	0.211675016	0.001687045	0.268178183	4.8E-01
568 UCAR	556672.35	3777009.14	556672.35, 3777009.1	0.076317106	0.001261973	0.107073617	1.8E-01
569 UCAR	556692.35	3777009.14	556692.35, 3777009.1	0.088498889	0.001400231	0.120025533	2.1E-01
570 UCAR	556712.35	3777009.14	556712.35, 3777009.1	0.103606075	0.001526602	0.134931101	2.4E-01
571 UCAR	556732.35	3777009.14	556732.35, 3777009.1	0.121801787	0.001625249	0.150872727	2.7E-01
572 UCAR	556752.35	3777009.14	556752.35, 3777009.1	0.143309934	0.001695708	0.167071125	3.1E-01
573 UCAR	556772.35	3777009.14	556772.35, 3777009.1	0.167601194	0.001747099	0.183562511	3.5E-01
574 UCAR	556792.35	3777009.14	556792.35, 3777009.1	0.19452993	0.00179801	0.203580255	4.0E-01
575 UCAR	556812.35	3777009.14	556812.35, 3777009.1	0.22099442	0.00185251	0.229502051	4.5E-01
576 UCAR	556832.35	3777009.14	556832.35, 3777009.1	0.247716571	0.001916925	0.267048579	5.2E-01
577 UCAR	556852.35	3777009.14	556852.35, 3777009.1	0.275945299	0.001984781	0.328933371	6.1E-01
578 UCAR	556672.35	3777029.14	556672.35, 3777029.1	0.087136442	0.001498416	0.118049719	2.1E-01
579 UCAR	556692.35	3777029.14	556692.35, 3777029.1	0.102279182	0.001674215	0.132340266	2.4E-01
580 UCAR	556712.35	3777029.14	556712.35, 3777029.1	0.121685761	0.001825409	0.15061944	2.7E-01
581 UCAR	556732.35	3777029.14	556732.35, 3777029.1	0.145385158	0.001930439	0.171339809	3.2E-01
582 UCAR	556752.35	3777029.14	556752.35, 3777029.1	0.174766316	0.002000882	0.193598534	3.7E-01
583 UCAR	556772.35	3777029.14	556772.35, 3777029.1	0.209483069	0.002054851	0.216261185	4.3E-01
584 UCAR	556792.35	3777029.14	556792.35, 3777029.1	0.248751979	0.002116762	0.242011768	4.9E-01
585 UCAR	556812.35	3777029.14	556812.35, 3777029.1	0.289067923	0.002195963	0.275466955	5.7E-01

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
586 UCAR	556832.35	3777029.14	556832.35, 3777029.1	0.330695694	0.002294449	0.326751758	6.6E-01
587 UCAR	556852.35	3777029.14	556852.35, 3777029.1	0.370710843	0.002383294	0.413884584	7.9E-01
588 UCAR	556672.35	3777049.14	556672.35, 3777049.1	0.100278848	0.001823205	0.13357516	2.4E-01
589 UCAR	556692.35	3777049.14	556692.35, 3777049.1	0.119406439	0.002047834	0.148386513	2.7E-01
590 UCAR	556712.35	3777049.14	556712.35, 3777049.1	0.144474244	0.002220057	0.169088378	3.2E-01
591 UCAR	556732.35	3777049.14	556732.35, 3777049.1	0.176135167	0.002323028	0.195236179	3.7E-01
592 UCAR	556752.35	3777049.14	556752.35, 3777049.1	0.217091361	0.002388669	0.225805579	4.5E-01
593 UCAR	556772.35	3777049.14	556772.35, 3777049.1	0.268136051	0.002450633	0.258234272	5.3E-01
594 UCAR	556792.35	3777049.14	556792.35, 3777049.1	0.327713904	0.002537743	0.29312416	6.2E-01
595 UCAR	556812.35	3777049.14	556812.35, 3777049.1	0.393266685	0.002670505	0.338665354	7.3E-01
596 UCAR	556832.35	3777049.14	556832.35, 3777049.1	0.459688243	0.002825624	0.410533165	8.7E-01
597 UCAR	556852.35	3777049.14	556852.35, 3777049.1	0.516432718	0.002940033	0.538284678	1.1E+00
598 UCAR	556927.54	3776959.53	556927.54, 3776959.5	0.181199438	0.001389175	0.430099025	6.1E-01
599 UCAR	556947.54	3776959.53	556947.54, 3776959.5	0.170145944	0.001313772	0.449537279	6.2E-01
600 UCAR	556967.54	3776959.53	556967.54, 3776959.5	0.151478032	0.001219026	0.412739532	5.7E-01
601 UCAR	556987.54	3776959.53	556987.54, 3776959.5	0.1299311	0.001114778	0.336200692	4.7E-01
602 UCAR	557007.54	3776959.53	557007.54, 3776959.5	0.109360133	0.001003996	0.254864675	3.7E-01
603 UCAR	557027.54	3776959.53	557027.54, 3776959.5	0.091897885	0.00089625	0.193493016	2.9E-01
604 UCAR	557047.54	3776959.53	557047.54, 3776959.5	0.07789885	0.000796316	0.155833956	2.3E-01
605 UCAR	557067.54	3776959.53	557067.54, 3776959.5	0.066736862	0.000706599	0.13432948	2.0E-01
606 UCAR	557087.54	3776959.53	557087.54, 3776959.5	0.057644659	0.000627702	0.121109833	1.8E-01
607 UCAR	556927.54	3776979.53	556927.54, 3776979.5	0.214259353	0.001556209	0.514223622	7.3E-01
608 UCAR	556947.54	3776979.53	556947.54, 3776979.5	0.193604402	0.001451576	0.506223498	7.0E-01
609 UCAR	556967.54	3776979.53	556967.54, 3776979.5	0.16618391	0.001322954	0.430965816	6.0E-01
610 UCAR	556987.54	3776979.53	556987.54, 3776979.5	0.138536016	0.001192181	0.329174982	4.7E-01
611 UCAR	557007.54	3776979.53	557007.54, 3776979.5	0.114709327	0.001059798	0.243972315	3.6E-01
612 UCAR	557027.54	3776979.53	557027.54, 3776979.5	0.095650651	0.0009362	0.18997456	2.9E-01
613 UCAR	557047.54	3776979.53	557047.54, 3776979.5	0.080752504	0.000825207	0.159771485	2.4E-01
614 UCAR	557067.54	3776979.53	557067.54, 3776979.5	0.068922296	0.000728229	0.142088896	2.1E-01
615 UCAR	557087.54	3776979.53	557087.54, 3776979.5	0.059236512	0.000644428	0.129809655	1.9E-01
616 UCAR	556927.54	3776999.53	556927.54, 3776999.5	0.252381303	0.001751729	0.608981095	8.6E-01
617 UCAR	556947.54	3776999.53	556947.54, 3776999.5	0.218267513	0.001602258	0.554046527	7.7E-01
618 UCAR	556967.54	3776999.53	556967.54, 3776999.5	0.180550556	0.00143971	0.434749448	6.2E-01
619 UCAR	556987.54	3776999.53	556987.54, 3776999.5	0.146872848	0.001273168	0.316844763	4.6E-01
620 UCAR	557007.54	3776999.53	557007.54, 3776999.5	0.120123866	0.001116929	0.237633179	3.6E-01
621 UCAR	557027.54	3776999.53	557027.54, 3776999.5	0.099655316	0.000976999	0.193836783	2.9E-01
622 UCAR	557047.54	3776999.53	557047.54, 3776999.5	0.083798574	0.00085515	0.169383982	2.5E-01
623 UCAR	557067.54	3776999.53	557067.54, 3776999.5	0.071147382	0.000750915	0.153183171	2.3E-01
624 UCAR	557087.54	3776999.53	557087.54, 3776999.5	0.060799214	0.000662558	0.140348785	2.0E-01
625 UCAR	556927.54	3777019.53	556927.54, 3777019.5	0.295236498	0.001980976	0.706761345	1.0E+00
626 UCAR	556947.54	3777019.53	556947.54, 3777019.5	0.243326076	0.001772014	0.584744951	8.3E-01
627 UCAR	556967.54	3777019.53	556967.54, 3777019.5	0.194434569	0.001561003	0.425757116	6.2E-01
628 UCAR	556987.54	3777019.53	556987.54, 3777019.5	0.155268041	0.001357577	0.307053162	4.6E-01
629 UCAR	557007.54	3777019.53	557007.54, 3777019.5	0.125986224	0.001176084	0.241010353	3.7E-01
630 UCAR	557027.54	3777019.53	557027.54, 3777019.5	0.104043643	0.00101968	0.206004758	3.1E-01

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
631 UCAR	557047.54	3777019.53	557047.54, 3777019.5	0.087020733	0.000887193	0.183951351	2.7E-01
632 UCAR	557067.54	3777019.53	557067.54, 3777019.5	0.073399292	0.000775954	0.166906993	2.4E-01
633 UCAR	557087.54	3777019.53	557087.54, 3777019.5	0.062314107	0.000682617	0.152223651	2.2E-01
634 UCAR	556927.54	3777039.53	556927.54, 3777039.5	0.342454187	0.002249949	0.794243532	1.1E+00
635 UCAR	556947.54	3777039.53	556947.54, 3777039.5	0.268584222	0.001960489	0.593186925	8.6E-01
636 UCAR	556967.54	3777039.53	556967.54, 3777039.5	0.208367709	0.001690486	0.413311619	6.2E-01
637 UCAR	556987.54	3777039.53	556987.54, 3777039.5	0.164358295	0.001446195	0.309316666	4.8E-01
638 UCAR	557007.54	3777039.53	557007.54, 3777039.5	0.132561099	0.00123852	0.256770224	3.9E-01
639 UCAR	557027.54	3777039.53	557027.54, 3777039.5	0.108809803	0.001065566	0.225646776	3.4E-01
640 UCAR	557047.54	3777039.53	557047.54, 3777039.5	0.090328027	0.000927453	0.202262485	2.9E-01
641 UCAR	557067.54	3777039.53	557067.54, 3777039.5	0.075596399	0.000803381	0.182355939	2.6E-01
642 UCAR	557087.54	3777039.53	557087.54, 3777039.5	0.06376603	0.000704663	0.164821677	2.3E-01
643 UCAR	557047.54	3777059.53	557047.54, 3777059.5	0.093575828	0.000948492	0.222755055	3.2E-01
644 UCAR	557067.54	3777059.53	557067.54, 3777059.5	0.077714187	0.0008223	0.198481926	2.8E-01
645 UCAR	557087.54	3777059.53	557087.54, 3777059.5	0.06517828	0.000718569	0.177294825	2.4E-01
646 UCAR	556919.02	3777174.93	556919.02, 3777174.9	1.054133675	0.006202745	1.949306817	3.0E+00
647 UCAR	556939.02	3777174.93	556939.02, 3777174.9	0.598952292	0.004250986	1.258753364	1.9E+00
648 UCAR	556919.02	3777194.93	556919.02, 3777194.9	0.914378812	0.006575025	2.166527405	3.1E+00
649 UCAR	556939.02	3777194.93	556939.02, 3777194.9	0.552397068	0.004502346	1.382999903	1.9E+00
650 UCAR	556919.02	3777214.93	556919.02, 3777214.9	0.711624742	0.006809277	1.824061147	2.5E+00
651 UCAR	556939.02	3777214.93	556939.02, 3777214.9	0.46967106	0.004710022	1.29569402	1.8E+00
652 UCAR	556919.02	3777234.93	556919.02, 3777234.9	0.53417564	0.007123077	1.309501661	1.9E+00
653 UCAR	556939.02	3777234.93	556939.02, 3777234.9	0.381329572	0.004988667	1.025624951	1.4E+00
654 UCAR	556919.02	3777254.93	556919.02, 3777254.9	0.398748067	0.00786939	0.924046409	1.3E+00
655 UCAR	556939.02	3777254.93	556939.02, 3777254.9	0.303764629	0.005592793	0.760583519	1.1E+00
656 UCAR	557023.57	3777171.57	557023.57, 3777171.5	0.140247215	0.001431983	0.387804046	5.3E-01
657 UCAR	557043.57	3777171.57	557043.57, 3777171.5	0.110589723	0.001177942	0.320549921	4.3E-01
658 UCAR	557063.57	3777171.57	557063.57, 3777171.5	0.089317961	0.000988265	0.26971877	3.6E-01
659 UCAR	557083.57	3777171.57	557083.57, 3777171.5	0.073514263	0.000844283	0.230699731	3.1E-01
660 UCAR	557023.57	3777191.57	557023.57, 3777191.5	0.138349372	0.001458527	0.418652881	5.6E-01
661 UCAR	557043.57	3777191.57	557043.57, 3777191.5	0.109624511	0.001194406	0.344253199	4.6E-01
662 UCAR	557063.57	3777191.57	557063.57, 3777191.5	0.088848218	0.001000285	0.28831384	3.8E-01
663 UCAR	557083.57	3777191.57	557083.57, 3777191.5	0.073300991	0.000854254	0.246045845	3.2E-01
664 UCAR	557023.57	3777211.57	557023.57, 3777211.5	0.133089674	0.001466729	0.436674747	5.7E-01
665 UCAR	557043.57	3777211.57	557043.57, 3777211.5	0.106348074	0.001200527	0.360580236	4.7E-01
666 UCAR	557063.57	3777211.57	557063.57, 3777211.5	0.086724914	0.001006476	0.303010035	3.9E-01
667 UCAR	557083.57	3777211.57	557083.57, 3777211.5	0.072027755	0.000857963	0.256486471	3.3E-01
668 UCAR	557023.57	3777231.57	557023.57, 3777231.5	0.124752616	0.001458543	0.425171581	5.5E-01
669 UCAR	557043.57	3777231.57	557043.57, 3777231.5	0.100922497	0.001195623	0.35643052	4.6E-01
670 UCAR	557063.57	3777231.57	557063.57, 3777231.5	0.083077505	0.001003656	0.302856914	3.9E-01
671 UCAR	557083.57	3777231.57	557083.57, 3777231.5	0.069587243	0.000854179	0.255755624	3.3E-01
672 UCAR	557023.57	3777251.57	557023.57, 3777251.5	0.114457623	0.001436653	0.387829427	5.0E-01
673 UCAR	557043.57	3777251.57	557043.57, 3777251.5	0.094001968	0.001178916	0.332594974	4.3E-01
674 UCAR	557063.57	3777251.57	557063.57, 3777251.5	0.078262822	0.000990495	0.28782448	3.7E-01
675 UCAR	557083.57	3777251.57	557083.57, 3777251.5	0.06616134	0.000840374	0.243831221	3.1E-01

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
676 UCAR	556249.05	3776972.85	556249.05, 3776972.8	0.00953591	0.000185682	0.022050017	3.2E-02
677 UCAR	556269.05	3776972.85	556269.05, 3776972.8	0.01007352	0.000187917	0.02272227	3.3E-02
678 UCAR	556229.05	3776992.85	556229.05, 3776992.8	0.009483442	0.000190337	0.023436934	3.3E-02
679 UCAR	556249.05	3776992.85	556249.05, 3776992.8	0.009996566	0.000194344	0.022868272	3.3E-02
680 UCAR	556269.05	3776992.85	556269.05, 3776992.8	0.010604158	0.000203158	0.023920906	3.5E-02
681 UCAR	556289.05	3776992.85	556289.05, 3776992.8	0.011244404	0.000211294	0.024760326	3.6E-02
682 UCAR	556309.05	3776992.85	556309.05, 3776992.8	0.01195578	0.000216845	0.025800595	3.8E-02
683 UCAR	556329.05	3776992.85	556329.05, 3776992.8	0.012661329	0.000218241	0.026439919	3.9E-02
684 UCAR	556209.05	3777012.85	556209.05, 3777012.8	0.00942631	0.000192253	0.023127162	3.3E-02
685 UCAR	556229.05	3777012.85	556229.05, 3777012.8	0.009910278	0.000194381	0.024081677	3.4E-02
686 UCAR	556249.05	3777012.85	556249.05, 3777012.8	0.010498045	0.000203226	0.025230376	3.6E-02
687 UCAR	556269.05	3777012.85	556269.05, 3777012.8	0.011155787	0.000214628	0.026500473	3.8E-02
688 UCAR	556289.05	3777012.85	556289.05, 3777012.8	0.011877672	0.000227874	0.027474631	4.0E-02
689 UCAR	556309.05	3777012.85	556309.05, 3777012.8	0.012635704	0.000236265	0.027166471	4.0E-02
690 UCAR	556329.05	3777012.85	556329.05, 3777012.8	0.013511532	0.000251972	0.028608923	4.2E-02
691 UCAR	556209.05	3777032.85	556209.05, 3777032.8	0.009804167	0.00019637	0.023727614	3.4E-02
692 UCAR	556229.05	3777032.85	556229.05, 3777032.8	0.010377938	0.000205164	0.024825433	3.5E-02
693 UCAR	556249.05	3777032.85	556249.05, 3777032.8	0.011019351	0.000212562	0.026041018	3.7E-02
694 UCAR	556269.05	3777032.85	556269.05, 3777032.8	0.011726076	0.00022537	0.027365465	3.9E-02
695 UCAR	556289.05	3777032.85	556289.05, 3777032.8	0.012523767	0.000240232	0.028843994	4.2E-02
696 UCAR	556309.05	3777032.85	556309.05, 3777032.8	0.013377438	0.00025568	0.030395254	4.4E-02
697 UCAR	556209.05	3777052.85	556209.05, 3777052.8	0.010247338	0.000202359	0.02456105	3.5E-02
698 UCAR	556229.05	3777052.85	556229.05, 3777052.8	0.010858429	0.000212482	0.025686798	3.7E-02
699 UCAR	556249.05	3777052.85	556249.05, 3777052.8	0.011572154	0.000226089	0.026992085	3.9E-02
700 UCAR	556269.05	3777052.85	556269.05, 3777052.8	0.01233719	0.000239803	0.028371859	4.1E-02
701 UCAR	556289.05	3777052.85	556289.05, 3777052.8	0.013188529	0.000255557	0.029887841	4.3E-02
702 UCAR	556309.05	3777052.85	556309.05, 3777052.8	0.014134335	0.000273117	0.031549205	4.6E-02
703 UCAR	556249.05	3777072.85	556249.05, 3777072.8	0.012135451	0.000234211	0.028095512	4.0E-02
704 UCAR	556269.05	3777072.85	556269.05, 3777072.8	0.012982127	0.00024964	0.029572586	4.3E-02
705 UCAR	556289.05	3777072.85	556289.05, 3777072.8	0.013903443	0.000266468	0.031153763	4.5E-02
706 UCAR	556269.05	3777092.85	556269.05, 3777092.8	0.013678379	0.00025822	0.030993269	4.5E-02
707 UCAR	556441.69	3776927.49	556441.69, 3776927.4	0.015135976	0.000225718	0.028227874	4.4E-02
708 UCAR	556461.69	3776927.49	556461.69, 3776927.4	0.016348833	0.000241396	0.028956621	4.6E-02
709 UCAR	556481.69	3776927.49	556481.69, 3776927.4	0.017534878	0.000252935	0.028905315	4.7E-02
710 UCAR	556421.69	3776947.49	556421.69, 3776947.4	0.015048528	0.000233652	0.029970443	4.5E-02
711 UCAR	556441.69	3776947.49	556441.69, 3776947.4	0.016113279	0.000243584	0.030860362	4.7E-02
712 UCAR	556461.69	3776947.49	556461.69, 3776947.4	0.017484743	0.000261841	0.032289265	5.0E-02
713 UCAR	556481.69	3776947.49	556481.69, 3776947.4	0.018860882	0.000276336	0.032817423	5.2E-02
714 UCAR	556401.69	3776967.49	556401.69, 3776967.4	0.014877118	0.000238433	0.029667608	4.5E-02
715 UCAR	556421.69	3776967.49	556421.69, 3776967.4	0.016038664	0.000253626	0.031608104	4.8E-02
716 UCAR	556441.69	3776967.49	556441.69, 3776967.4	0.017190887	0.000264452	0.032939037	5.0E-02
717 UCAR	556461.69	3776967.49	556461.69, 3776967.4	0.018593847	0.000280628	0.034633697	5.4E-02
718 UCAR	556481.69	3776967.49	556481.69, 3776967.4	0.020301191	0.000303703	0.036675584	5.7E-02
719 UCAR	556401.69	3776987.49	556401.69, 3776987.4	0.015839264	0.000256304	0.030787485	4.7E-02
720 UCAR	556421.69	3776987.49	556421.69, 3776987.4	0.017026476	0.000270822	0.032497999	5.0E-02

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
721 UCAR	556441.69	3776987.49	556441.69, 3776987.4	0.018456261	0.000290336	0.034833861	5.4E-02
722 UCAR	556461.69	3776987.49	556461.69, 3776987.4	0.0200225	0.000309968	0.037130832	5.7E-02
723 UCAR	556481.69	3776987.49	556481.69, 3776987.4	0.021908288	0.0003362	0.039975164	6.2E-02
724 UCAR	556421.69	3777007.49	556421.69, 3777007.4	0.018192722	0.000291015	0.033824608	5.2E-02
725 UCAR	556441.69	3777007.49	556441.69, 3777007.4	0.01966917	0.000310188	0.035809124	5.6E-02
726 UCAR	556461.69	3777007.49	556461.69, 3777007.4	0.021432513	0.00033487	0.038483404	6.0E-02
727 UCAR	556481.69	3777007.49	556481.69, 3777007.4	0.02357955	0.000367915	0.042100183	6.6E-02
728 UCAR	556441.69	3777027.49	556441.69, 3777027.4	0.021147982	0.000335376	0.037697609	5.9E-02
729 UCAR	556461.69	3777027.49	556461.69, 3777027.4	0.022994147	0.00036022	0.039932017	6.3E-02
730 UCAR	556481.69	3777027.49	556481.69, 3777027.4	0.025381451	0.000399221	0.043778569	7.0E-02
731 1	556251.24	3777154.95	556251.24, 3777154.9	0.015604997	0.00027146	0.034854692	5.1E-02
732 1	556261.28	3777141.2	556261.28, 3777141.2	0.015469723	0.00027522	0.034834867	5.1E-02
733 1	556264.98	3777168.16	556264.98, 3777168.1	0.017195726	0.000290015	0.037193006	5.5E-02
734 1	556279.25	3777151.77	556279.25, 3777151.7	0.017154929	0.000297945	0.037514069	5.5E-02
735 1	556202.6	3777113.45	556202.6, 3777113.45	0.01166199	0.000219324	0.028147353	4.0E-02
736 1	556220.05	3777109.75	556220.05, 3777109.7	0.012215944	0.000229834	0.02913753	4.2E-02
737 1	556187.53	3777090.19	556187.53, 3777090.1	0.010531917	0.000203775	0.025842958	3.7E-02
738 1	556164.27	3777121.38	556164.27, 3777121.3	0.010643883	0.000200317	0.026169719	3.7E-02
739 UCAR	557510.26	3776508.23	557510.26, 3776508.2	0.008145593	0.000147723	0.027898149	3.6E-02
740 UCAR	557530.26	3776508.23	557530.26, 3776508.2	0.007645322	0.000142068	0.027092395	3.5E-02
741 UCAR	557550.26	3776508.23	557550.26, 3776508.2	0.007167209	0.000136764	0.026260373	3.4E-02
742 UCAR	557570.26	3776508.23	557570.26, 3776508.2	0.006718248	0.000131826	0.025426352	3.2E-02
743 UCAR	557590.26	3776508.23	557590.26, 3776508.2	0.006306603	0.000127363	0.024625317	3.1E-02
744 UCAR	557610.26	3776508.23	557610.26, 3776508.2	0.00593344	0.000123379	0.02386878	3.0E-02
745 UCAR	557630.26	3776508.23	557630.26, 3776508.2	0.005582433	0.000119477	0.023107668	2.9E-02
746 UCAR	557650.26	3776508.23	557650.26, 3776508.2	0.005262911	0.000115881	0.022385452	2.8E-02
747 UCAR	557670.26	3776508.23	557670.26, 3776508.2	0.004959715	0.000112217	0.021657528	2.7E-02
748 UCAR	557690.26	3776508.23	557690.26, 3776508.2	0.004676342	0.000108565	0.020941822	2.6E-02
749 UCAR	557510.26	3776528.23	557510.26, 3776528.2	0.008051144	0.000148572	0.028345172	3.7E-02
750 UCAR	557530.26	3776528.23	557530.26, 3776528.2	0.007533382	0.000142793	0.027451368	3.5E-02
751 UCAR	557550.26	3776528.23	557550.26, 3776528.2	0.00705177	0.000137513	0.026570714	3.4E-02
752 UCAR	557570.26	3776528.23	557570.26, 3776528.2	0.00659348	0.000132395	0.025665258	3.2E-02
753 UCAR	557590.26	3776528.23	557590.26, 3776528.2	0.006185333	0.000127946	0.024835592	3.1E-02
754 UCAR	557610.26	3776528.23	557610.26, 3776528.2	0.005812169	0.000123815	0.024035042	3.0E-02
755 UCAR	557630.26	3776528.23	557630.26, 3776528.2	0.005471656	0.000119985	0.023271345	2.9E-02
756 UCAR	557650.26	3776528.23	557650.26, 3776528.2	0.005162629	0.000116404	0.022543556	2.8E-02
757 UCAR	557670.26	3776528.23	557670.26, 3776528.2	0.004861764	0.000112536	0.021785355	2.7E-02
758 UCAR	557690.26	3776528.23	557690.26, 3776528.2	0.004594717	0.000108991	0.021085423	2.6E-02
759 UCAR	557510.26	3776548.23	557510.26, 3776548.2	0.007912384	0.000148964	0.028669236	3.7E-02
760 UCAR	557530.26	3776548.23	557530.26, 3776548.2	0.007402784	0.000143426	0.027762685	3.5E-02
761 UCAR	557550.26	3776548.23	557550.26, 3776548.2	0.006894351	0.000137633	0.026748588	3.4E-02
762 UCAR	557570.26	3776548.23	557570.26, 3776548.2	0.006436061	0.000132431	0.025798362	3.2E-02
763 UCAR	557590.26	3776548.23	557590.26, 3776548.2	0.00604074	0.00012806	0.024961253	3.1E-02
764 UCAR	557610.26	3776548.23	557610.26, 3776548.2	0.005673406	0.000123831	0.024133686	3.0E-02
765 UCAR	557630.26	3776548.23	557630.26, 3776548.2	0.005342222	0.000119941	0.023356214	2.9E-02

Construction and Operational Risk Combined

Discrete Receptor ID				Construction	Operations	Benzene Operations	
	X	Y	X, Y	Risk	Risk	Risk	Total Risk
766 UCAR	557650.26	3776548.23	557650.26, 3776548.2	0.005046021	0.00011638	0.022632456	2.8E-02
767 UCAR	557670.26	3776548.23	557670.26, 3776548.2	0.004762647	0.000112615	0.021891695	2.7E-02
768 UCAR	557690.26	3776548.23	557690.26, 3776548.2	0.004510759	0.00010917	0.021211739	2.6E-02
769 UCAR	557510.26	3776568.23	557510.26, 3776568.2	0.007746804	0.00014914	0.028919996	3.7E-02
770 UCAR	557530.26	3776568.23	557530.26, 3776568.2	0.007232539	0.000143483	0.027945171	3.5E-02
771 UCAR	557550.26	3776568.23	557550.26, 3776568.2	0.006738098	0.000137798	0.026915521	3.4E-02
772 UCAR	557570.26	3776568.23	557570.26, 3776568.2	0.006280973	0.000132366	0.025902215	3.2E-02
773 UCAR	557590.26	3776568.23	557590.26, 3776568.2	0.00588915	0.000127818	0.025024001	3.1E-02
774 UCAR	557610.26	3776568.23	557610.26, 3776568.2	0.005532311	0.000123513	0.024180382	3.0E-02
775 UCAR	557630.26	3776568.23	557630.26, 3776568.2	0.005212787	0.000119566	0.023397184	2.9E-02
776 UCAR	557650.26	3776568.23	557650.26, 3776568.2	0.004932911	0.000116111	0.022697439	2.8E-02
777 UCAR	557670.26	3776568.23	557670.26, 3776568.2	0.00466353	0.00011234	0.02196421	2.7E-02
778 UCAR	557690.26	3776568.23	557690.26, 3776568.2	0.004419803	0.000108725	0.021271541	2.6E-02
779 UCAR	557510.26	3776588.23	557510.26, 3776588.2	0.007562566	0.000148937	0.029069002	3.7E-02
780 UCAR	557530.26	3776588.23	557530.26, 3776588.2	0.007059961	0.0001434	0.028080351	3.5E-02
781 UCAR	557550.26	3776588.23	557550.26, 3776588.2	0.006578347	0.000137667	0.027014777	3.4E-02
782 UCAR	557570.26	3776588.23	557570.26, 3776588.2	0.00613055	0.000131978	0.025936223	3.2E-02
783 UCAR	557590.26	3776588.23	557590.26, 3776588.2	0.005741058	0.000127051	0.024986479	3.1E-02
784 UCAR	557610.26	3776588.23	557610.26, 3776588.2	0.005398211	0.000122714	0.024141789	3.0E-02
785 UCAR	557630.26	3776588.23	557630.26, 3776588.2	0.005102008	0.000119081	0.023423525	2.9E-02
786 UCAR	557650.26	3776588.23	557650.26, 3776588.2	0.00483146	0.000115514	0.022722576	2.8E-02
787 UCAR	557670.26	3776588.23	557670.26, 3776588.2	0.004581903	0.000111947	0.022033968	2.7E-02
788 UCAR	557690.26	3776588.23	557690.26, 3776588.2	0.004355668	0.000108526	0.021383685	2.6E-02
789 UCAR	557510.26	3776608.23	557510.26, 3776608.2	0.007379494	0.000148366	0.029104793	3.7E-02
790 UCAR	557530.26	3776608.23	557530.26, 3776608.2	0.006889715	0.000142857	0.028099289	3.5E-02
791 UCAR	557550.26	3776608.23	557550.26, 3776608.2	0.006422093	0.000136992	0.026988186	3.4E-02
792 UCAR	557570.26	3776608.23	557570.26, 3776608.2	0.006001115	0.000131451	0.025925476	3.2E-02
793 UCAR	557590.26	3776608.23	557590.26, 3776608.2	0.005623283	0.000126234	0.024921073	3.1E-02
794 UCAR	557610.26	3776608.23	557610.26, 3776608.2	0.005295595	0.000121876	0.024084715	3.0E-02
795 UCAR	557630.26	3776608.23	557630.26, 3776608.2	0.005008721	0.000118235	0.023387518	2.9E-02
796 UCAR	557650.26	3776608.23	557650.26, 3776608.2	0.004747501	0.000114581	0.022693329	2.8E-02
797 UCAR	557670.26	3776608.23	557670.26, 3776608.2	0.004507272	0.000110917	0.022007882	2.7E-02
798 UCAR	557690.26	3776608.23	557690.26, 3776608.2	0.004289199	0.000107377	0.021356145	2.6E-02
799 UCAR	557510.26	3776628.23	557510.26, 3776628.2	0.007220908	0.000147607	0.029055025	3.6E-02
800 UCAR	557530.26	3776628.23	557530.26, 3776628.2	0.006738125	0.000141889	0.027997352	3.5E-02
801 UCAR	557550.26	3776628.23	557550.26, 3776628.2	0.006287993	0.000135818	0.026833795	3.3E-02
802 UCAR	557570.26	3776628.23	557570.26, 3776628.2	0.005905496	0.000131244	0.02597526	3.2E-02
803 UCAR	557590.26	3776628.23	557590.26, 3776628.2	0.00553466	0.000125339	0.024827489	3.0E-02
804 UCAR	557610.26	3776628.23	557610.26, 3776628.2	0.005219798	0.000120929	0.023997686	2.9E-02
805 UCAR	557630.26	3776628.23	557630.26, 3776628.2	0.00493992	0.000117008	0.023272664	2.8E-02
806 UCAR	557650.26	3776628.23	557650.26, 3776628.2	0.004690361	0.000113567	0.022647537	2.7E-02
807 UCAR	557670.26	3776628.23	557670.26, 3776628.2	0.004460626	0.000109907	0.021982526	2.7E-02
808 UCAR	557690.26	3776628.23	557690.26, 3776628.2	0.004253048	0.000106475	0.021367783	2.6E-02
809 UCAR	557510.26	3776648.23	557510.26, 3776648.2	0.007085643	0.000146422	0.028861709	3.6E-02
810 UCAR	557530.26	3776648.23	557530.26, 3776648.2	0.00661452	0.000140276	0.027702894	3.4E-02

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
811 UCAR	557550.26	3776648.23	557550.26, 3776648.2	0.006190041	0.000134214	0.02653284	3.3E-02
812 UCAR	557570.26	3776648.23	557570.26, 3776648.2	0.00581104	0.00012557	0.025408749	3.1E-02
813 UCAR	557590.26	3776648.23	557590.26, 3776648.2	0.005476353	0.000121173	0.024589308	3.0E-02
814 UCAR	557610.26	3776648.23	557610.26, 3776648.2	0.005174317	0.000116262	0.023738517	2.9E-02
815 UCAR	557630.26	3776648.23	557630.26, 3776648.2	0.004902602	0.000113052	0.023085286	2.8E-02
816 UCAR	557650.26	3776648.23	557650.26, 3776648.2	0.004658874	0.000110386	0.022511117	2.7E-02
817 UCAR	557670.26	3776648.23	557670.26, 3776648.2	0.004437301	0.000106714	0.021845398	2.6E-02
818 UCAR	557690.26	3776648.23	557690.26, 3776648.2	0.004235554	0.000103968	0.021258438	2.6E-02
819 UCAR	557510.26	3776668.23	557510.26, 3776668.2	0.006997017	0.000139421	0.028365465	3.6E-02
820 UCAR	557530.26	3776668.23	557530.26, 3776668.2	0.006545715	0.000132235	0.027226837	3.4E-02
821 UCAR	557550.26	3776668.23	557550.26, 3776668.2	0.00614339	0.000125581	0.026055777	3.2E-02
822 UCAR	557570.26	3776668.23	557570.26, 3776668.2	0.005783044	0.000118258	0.024974457	3.1E-02
823 UCAR	557590.26	3776668.23	557590.26, 3776668.2	0.005455355	0.000115632	0.02433508	3.0E-02
824 UCAR	557610.26	3776668.23	557610.26, 3776668.2	0.005164979	0.000109126	0.023290796	2.9E-02
825 UCAR	557630.26	3776668.23	557630.26, 3776668.2	0.00490026	0.000106231	0.022651244	2.8E-02
826 UCAR	557650.26	3776668.23	557650.26, 3776668.2	0.004658865	0.000104177	0.022186448	2.7E-02
827 UCAR	557670.26	3776668.23	557670.26, 3776668.2	0.004441959	0.000101698	0.021609394	2.6E-02
828 UCAR	557690.26	3776668.23	557690.26, 3776668.2	0.00424371	9.88559E-05	0.021035157	2.5E-02
829 UCAR	557510.26	3776688.23	557510.26, 3776688.2	0.006958526	0.000131456	0.027740759	3.5E-02
830 UCAR	557530.26	3776688.23	557530.26, 3776688.2	0.006521217	0.000125381	0.02438913	3.1E-02
831 UCAR	557550.26	3776688.23	557550.26, 3776688.2	0.006131719	0.000117986	0.023611576	3.0E-02
832 UCAR	557570.26	3776688.23	557570.26, 3776688.2	0.005780705	0.000113386	0.022877919	2.9E-02
833 UCAR	557590.26	3776688.23	557590.26, 3776688.2	0.00546351	0.000109255	0.022186083	2.8E-02
834 UCAR	557610.26	3776688.23	557610.26, 3776688.2	0.005177798	0.000103261	0.021528174	2.7E-02
835 UCAR	557630.26	3776688.23	557630.26, 3776688.2	0.004917745	0.0001011	0.02090779	2.6E-02
836 UCAR	557650.26	3776688.23	557650.26, 3776688.2	0.004679847	9.86358E-05	0.020320344	2.5E-02
837 UCAR	557670.26	3776688.23	557670.26, 3776688.2	0.004465271	9.53809E-05	0.019755472	2.4E-02
838 UCAR	557690.26	3776688.23	557690.26, 3776688.2	0.00427052	9.21504E-05	0.019213422	2.4E-02
839 UCAR	556172.49	3776517.81	556172.49, 3776517.8	0.003119511	4.7963E-05	0.00590979	9.1E-03
840 UCAR	556192.49	3776517.81	556192.49, 3776517.8	0.003215139	4.93558E-05	0.006232317	9.5E-03
841 UCAR	556212.49	3776517.81	556212.49, 3776517.8	0.003294441	4.98159E-05	0.006407395	9.8E-03
842 UCAR	556232.49	3776517.81	556232.49, 3776517.8	0.003388903	5.07749E-05	0.006630771	1.0E-02
843 UCAR	556252.49	3776517.81	556252.49, 3776517.8	0.003490363	5.18135E-05	0.006807807	1.0E-02
844 UCAR	556272.49	3776517.81	556272.49, 3776517.8	0.003612813	5.33973E-05	0.007019274	1.1E-02
845 UCAR	556292.49	3776517.81	556292.49, 3776517.8	0.003743426	5.49072E-05	0.007170091	1.1E-02
846 UCAR	556312.49	3776517.81	556312.49, 3776517.8	0.003883369	5.62654E-05	0.007267417	1.1E-02
847 UCAR	556332.49	3776517.81	556332.49, 3776517.8	0.004050131	5.80445E-05	0.007437959	1.2E-02
848 UCAR	556352.49	3776517.81	556352.49, 3776517.8	0.004225056	5.93106E-05	0.007525149	1.2E-02
849 UCAR	556372.49	3776517.81	556372.49, 3776517.8	0.004403479	5.99115E-05	0.007518607	1.2E-02
850 UCAR	556392.49	3776517.81	556392.49, 3776517.8	0.004630879	6.18163E-05	0.007809537	1.3E-02
851 UCAR	556412.49	3776517.81	556412.49, 3776517.8	0.004857112	6.31732E-05	0.008047234	1.3E-02
852 UCAR	556432.49	3776517.81	556432.49, 3776517.8	0.005085677	6.43464E-05	0.008274957	1.3E-02
853 UCAR	556452.49	3776517.81	556452.49, 3776517.8	0.005309578	6.53797E-05	0.008467549	1.4E-02
854 UCAR	556472.49	3776517.81	556472.49, 3776517.8	0.005553304	6.75078E-05	0.008846118	1.4E-02
855 UCAR	556492.49	3776517.81	556492.49, 3776517.8	0.005790034	6.94619E-05	0.009162554	1.5E-02

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
856 UCAR	556172.49	3776537.81	556172.49, 3776537.8	0.003224465	4.97093E-05	0.005988678	9.3E-03
857 UCAR	556192.49	3776537.81	556192.49, 3776537.8	0.003316595	5.07566E-05	0.00622091	9.6E-03
858 UCAR	556212.49	3776537.81	556212.49, 3776537.8	0.003414556	5.1902E-05	0.006505824	1.0E-02
859 UCAR	556232.49	3776537.81	556232.49, 3776537.8	0.003512517	5.2837E-05	0.006759699	1.0E-02
860 UCAR	556252.49	3776537.81	556252.49, 3776537.8	0.003617475	5.3876E-05	0.006993623	1.1E-02
861 UCAR	556272.49	3776537.81	556272.49, 3776537.8	0.003728264	5.48739E-05	0.007154451	1.1E-02
862 UCAR	556292.49	3776537.81	556292.49, 3776537.8	0.003871706	5.69101E-05	0.007434419	1.1E-02
863 UCAR	556312.49	3776537.81	556312.49, 3776537.8	0.004018646	5.8549E-05	0.007594755	1.2E-02
864 UCAR	556332.49	3776537.81	556332.49, 3776537.8	0.004188908	6.04764E-05	0.007783959	1.2E-02
865 UCAR	556352.49	3776537.81	556352.49, 3776537.8	0.004367332	6.1971E-05	0.007891762	1.2E-02
866 UCAR	556372.49	3776537.81	556372.49, 3776537.8	0.004553919	6.2927E-05	0.007917781	1.3E-02
867 UCAR	556392.49	3776537.81	556392.49, 3776537.8	0.004760329	6.37781E-05	0.007963544	1.3E-02
868 UCAR	556412.49	3776537.81	556412.49, 3776537.8	0.005012218	6.57447E-05	0.008275857	1.3E-02
869 UCAR	556432.49	3776537.81	556432.49, 3776537.8	0.005266438	6.73692E-05	0.008570623	1.4E-02
870 UCAR	556452.49	3776537.81	556452.49, 3776537.8	0.005512496	6.84088E-05	0.008769271	1.4E-02
871 UCAR	556472.49	3776537.81	556472.49, 3776537.8	0.005784209	7.0733E-05	0.009194957	1.5E-02
872 UCAR	556492.49	3776537.81	556492.49, 3776537.8	0.006051259	7.29991E-05	0.009582143	1.6E-02
873 UCAR	556332.49	3776557.81	556332.49, 3776557.8	0.004348675	6.33719E-05	0.00820426	1.3E-02
874 UCAR	556352.49	3776557.81	556352.49, 3776557.8	0.004514273	6.43828E-05	0.008214204	1.3E-02
875 UCAR	556372.49	3776557.81	556372.49, 3776557.8	0.004720685	6.6179E-05	0.008367511	1.3E-02
876 UCAR	556392.49	3776557.81	556392.49, 3776557.8	0.004936425	6.73369E-05	0.008429762	1.3E-02
877 UCAR	556412.49	3776557.81	556412.49, 3776557.8	0.005196478	6.93882E-05	0.00870746	1.4E-02
878 UCAR	556432.49	3776557.81	556432.49, 3776557.8	0.005460028	7.08198E-05	0.008929903	1.4E-02
879 UCAR	556452.49	3776557.81	556452.49, 3776557.8	0.005727077	7.1931E-05	0.00913226	1.5E-02
880 UCAR	556472.49	3776557.81	556472.49, 3776557.8	0.006019781	7.40706E-05	0.009529818	1.6E-02
881 UCAR	556492.49	3776557.81	556492.49, 3776557.8	0.006322981	7.67297E-05	0.010001868	1.6E-02
882 UCAR	556332.49	3776577.81	556332.49, 3776577.8	0.004507275	6.57498E-05	0.008505434	1.3E-02
883 UCAR	556352.49	3776577.81	556352.49, 3776577.8	0.004696198	6.77566E-05	0.008702237	1.3E-02
884 UCAR	556372.49	3776577.81	556372.49, 3776577.8	0.004901445	6.94831E-05	0.008827859	1.4E-02
885 UCAR	556392.49	3776577.81	556392.49, 3776577.8	0.005134679	7.13725E-05	0.008989811	1.4E-02
886 UCAR	556412.49	3776577.81	556412.49, 3776577.8	0.005395899	7.33201E-05	0.009198289	1.5E-02
887 UCAR	556432.49	3776577.81	556432.49, 3776577.8	0.005665281	7.4544E-05	0.009333812	1.5E-02
888 UCAR	556452.49	3776577.81	556452.49, 3776577.8	0.005961483	7.61598E-05	0.009600126	1.6E-02
889 UCAR	556472.49	3776577.81	556472.49, 3776577.8	0.006281009	7.83738E-05	0.010006816	1.6E-02
890 UCAR	556492.49	3776577.81	556492.49, 3776577.8	0.006607531	8.07834E-05	0.010441678	1.7E-02
891 UCAR	556332.49	3776597.81	556332.49, 3776597.8	0.004702027	6.92168E-05	0.008940978	1.4E-02
892 UCAR	556352.49	3776597.81	556352.49, 3776597.8	0.00489095	7.11071E-05	0.009155038	1.4E-02
893 UCAR	556372.49	3776597.81	556372.49, 3776597.8	0.005098531	7.29156E-05	0.009301456	1.4E-02
894 UCAR	556392.49	3776597.81	556392.49, 3776597.8	0.005318938	7.42648E-05	0.00934617	1.5E-02
895 UCAR	556412.49	3776597.81	556412.49, 3776597.8	0.005602317	7.70047E-05	0.009653166	1.5E-02
896 UCAR	556432.49	3776597.81	556432.49, 3776597.8	0.005884528	7.8501E-05	0.009784041	1.6E-02
897 UCAR	556452.49	3776597.81	556452.49, 3776597.8	0.006184229	7.96774E-05	0.009921507	1.6E-02
898 UCAR	556472.49	3776597.81	556472.49, 3776597.8	0.006527078	8.18412E-05	0.010294756	1.7E-02
899 UCAR	556492.49	3776597.81	556492.49, 3776597.8	0.006903745	8.51203E-05	0.010889927	1.8E-02
900 UCAR	556252.49	3776617.81	556252.49, 3776617.8	0.004255368	6.54365E-05	0.007759647	1.2E-02

Construction and Operational Risk Combined

Discrete Receptor ID	X	Y	X, Y	Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
901 UCAR	556272.49	3776617.81	556272.49, 3776617.8	0.00439298	6.66978E-05	0.008034442	1.2E-02
902 UCAR	556292.49	3776617.81	556292.49, 3776617.8	0.004548085	6.83851E-05	0.008420112	1.3E-02
903 UCAR	556312.49	3776617.81	556312.49, 3776617.8	0.004723014	7.05143E-05	0.00887561	1.4E-02
904 UCAR	556332.49	3776617.81	556332.49, 3776617.8	0.004885117	7.1744E-05	0.009135912	1.4E-02
905 UCAR	556352.49	3776617.81	556352.49, 3776617.8	0.005104361	7.46838E-05	0.009587249	1.5E-02
906 UCAR	556372.49	3776617.81	556372.49, 3776617.8	0.005331767	7.72096E-05	0.00989229	1.5E-02
907 UCAR	556392.49	3776617.81	556392.49, 3776617.8	0.005561505	7.89129E-05	0.010005923	1.6E-02
908 UCAR	556412.49	3776617.81	556412.49, 3776617.8	0.005841387	8.14421E-05	0.01024593	1.6E-02
909 UCAR	556432.49	3776617.81	556432.49, 3776617.8	0.006125932	8.28628E-05	0.010315643	1.7E-02
910 UCAR	556452.49	3776617.81	556452.49, 3776617.8	0.006462952	8.5118E-05	0.010588858	1.7E-02
911 UCAR	556472.49	3776617.81	556472.49, 3776617.8	0.006797638	8.61615E-05	0.010715119	1.8E-02
912 UCAR	556492.49	3776617.81	556492.49, 3776617.8	0.007211622	8.97412E-05	0.011346133	1.9E-02
913 UCAR	556252.49	3776637.81	556252.49, 3776637.8	0.004436124	6.8552E-05	0.008018071	1.3E-02
914 UCAR	556272.49	3776637.81	556272.49, 3776637.8	0.004611053	7.10864E-05	0.008394635	1.3E-02
915 UCAR	556292.49	3776637.81	556292.49, 3776637.8	0.004753331	7.19826E-05	0.008628789	1.3E-02
916 UCAR	556312.49	3776637.81	556312.49, 3776637.8	0.004921264	7.35345E-05	0.008998919	1.4E-02
917 UCAR	556332.49	3776637.81	556332.49, 3776637.8	0.00512768	7.62571E-05	0.009547183	1.5E-02
918 UCAR	556352.49	3776637.81	556352.49, 3776637.8	0.005330599	7.83054E-05	0.009935675	1.5E-02
919 UCAR	556372.49	3776637.81	556372.49, 3776637.8	0.005574333	8.13007E-05	0.0103834	1.6E-02
920 UCAR	556392.49	3776637.81	556392.49, 3776637.8	0.005807571	8.29979E-05	0.0105352	1.6E-02
921 UCAR	556412.49	3776637.81	556412.49, 3776637.8	0.006087454	8.54533E-05	0.010757352	1.7E-02
922 UCAR	556432.49	3776637.81	556432.49, 3776637.8	0.006394158	8.76345E-05	0.01092428	1.7E-02
923 UCAR	556452.49	3776637.81	556452.49, 3776637.8	0.006730013	8.95208E-05	0.011073491	1.8E-02
924 UCAR	556472.49	3776637.81	556472.49, 3776637.8	0.007111347	9.18463E-05	0.011367319	1.9E-02
925 UCAR	556492.49	3776637.81	556492.49, 3776637.8	0.007534661	9.47257E-05	0.011831361	1.9E-02
926 UCAR	556252.49	3776657.81	556252.49, 3776657.8	0.00464137	7.23386E-05	0.008435313	1.3E-02
927 UCAR	556272.49	3776657.81	556272.49, 3776657.8	0.004817465	7.46641E-05	0.00870451	1.4E-02
928 UCAR	556292.49	3776657.81	556292.49, 3776657.8	0.004998226	7.68339E-05	0.009033761	1.4E-02
929 UCAR	556312.49	3776657.81	556312.49, 3776657.8	0.005139338	7.70263E-05	0.009159777	1.4E-02
930 UCAR	556332.49	3776657.81	556332.49, 3776657.8	0.005369078	8.02918E-05	0.009789397	1.5E-02
931 UCAR	556352.49	3776657.81	556352.49, 3776657.8	0.005596487	8.30043E-05	0.010339231	1.6E-02
932 UCAR	556372.49	3776657.81	556372.49, 3776657.8	0.00584372	8.58369E-05	0.01084619	1.7E-02
933 UCAR	556392.49	3776657.81	556392.49, 3776657.8	0.006072295	8.71682E-05	0.011017245	1.7E-02
934 UCAR	556412.49	3776657.81	556412.49, 3776657.8	0.006354513	8.96061E-05	0.011267432	1.8E-02
935 UCAR	556432.49	3776657.81	556432.49, 3776657.8	0.006671713	9.20526E-05	0.011467243	1.8E-02
936 UCAR	556452.49	3776657.81	556452.49, 3776657.8	0.007029728	9.45928E-05	0.011682335	1.9E-02
937 UCAR	556472.49	3776657.81	556472.49, 3776657.8	0.007427389	9.70676E-05	0.011934281	1.9E-02
938 UCAR	556492.49	3776657.81	556492.49, 3776657.8	0.00788219	0.000100275	0.01239238	2.0E-02
939 UCAR	556252.49	3776677.81	556252.49, 3776677.8	0.004860609	7.63297E-05	0.008946561	1.4E-02
940 UCAR	556272.49	3776677.81	556272.49, 3776677.8	0.005009884	7.73887E-05	0.008965992	1.4E-02
941 UCAR	556292.49	3776677.81	556292.49, 3776677.8	0.00520114	7.96696E-05	0.009213222	1.4E-02
942 UCAR	556312.49	3776677.81	556312.49, 3776677.8	0.005406391	8.20858E-05	0.009567364	1.5E-02
943 UCAR	556332.49	3776677.81	556332.49, 3776677.8	0.005630301	8.47252E-05	0.010046809	1.6E-02
944 UCAR	556352.49	3776677.81	556352.49, 3776677.8	0.005876369	8.77467E-05	0.010645232	1.7E-02
945 UCAR	556372.49	3776677.81	556372.49, 3776677.8	0.006124769	9.02604E-05	0.011169946	1.7E-02

Construction and Operational Risk Combined

Discrete Receptor ID					Construction Risk	Operations Risk	Benzene Operations Risk	Total Risk
	X	Y	X, Y					
946	UCAR	556392.49	3776677.81	556392.49, 3776677.8	0.00637317	9.2091E-05	0.0115172	1.8E-02
947	UCAR	556412.49	3776677.81	556412.49, 3776677.8	0.006683377	9.53072E-05	0.011967309	1.9E-02
948	UCAR	556432.49	3776677.81	556432.49, 3776677.8	0.00698542	9.70583E-05	0.012084491	1.9E-02
949	UCAR	556452.49	3776677.81	556452.49, 3776677.8	0.0073516	9.96864E-05	0.012292614	2.0E-02
950	UCAR	556472.49	3776677.81	556472.49, 3776677.8	0.00778075	0.000102996	0.01262749	2.1E-02
951	UCAR	556492.49	3776677.81	556492.49, 3776677.8	0.008260042	0.000106441	0.013049916	2.1E-02
952	UCAR	556252.49	3776697.81	556252.49, 3776697.8	0.005097341	8.06423E-05	0.009572221	1.5E-02
953	UCAR	556272.49	3776697.81	556272.49, 3776697.8	0.005257112	8.18208E-05	0.009539627	1.5E-02
954	UCAR	556372.49	3776697.81	556372.49, 3776697.8	0.006438471	9.54064E-05	0.01149087	1.8E-02
955	UCAR	556392.49	3776697.81	556392.49, 3776697.8	0.006681043	9.65911E-05	0.011820409	1.9E-02
956	UCAR	556412.49	3776697.81	556412.49, 3776697.8	0.007006411	0.000100046	0.012402129	2.0E-02
957	UCAR	556432.49	3776697.81	556432.49, 3776697.8	0.007336444	0.000102539	0.012715166	2.0E-02
958	UCAR	556452.49	3776697.81	556452.49, 3776697.8	0.007704958	0.000105041	0.01292369	2.1E-02
959	UCAR	556472.49	3776697.81	556472.49, 3776697.8	0.008155102	0.000108827	0.013301265	2.2E-02
960	UCAR	556492.49	3776697.81	556492.49, 3776697.8	0.008669381	0.000113012	0.013774127	2.3E-02
961	UCAR	556252.49	3776717.81	556252.49, 3776717.8	0.005300256	8.32592E-05	0.010064365	1.5E-02
962	UCAR	556272.49	3776717.81	556272.49, 3776717.8	0.005512503	8.61768E-05	0.010187739	1.6E-02
963	UCAR	556372.49	3776717.81	556372.49, 3776717.8	0.006776662	0.000100935	0.011809665	1.9E-02
964	UCAR	556392.49	3776717.81	556392.49, 3776717.8	0.007027398	0.000101903	0.01212381	1.9E-02
965	UCAR	556412.49	3776717.81	556412.49, 3776717.8	0.007377258	0.000105778	0.012846461	2.0E-02
966	UCAR	556432.49	3776717.81	556432.49, 3776717.8	0.007724785	0.000108521	0.013308412	2.1E-02
967	UCAR	556452.49	3776717.81	556452.49, 3776717.8	0.008109628	0.00011129	0.013636421	2.2E-02
968	UCAR	556472.49	3776717.81	556472.49, 3776717.8	0.008619248	0.000116891	0.014317135	2.3E-02
969	UCAR	556492.49	3776717.81	556492.49, 3776717.8	0.009119537	0.000120097	0.014580179	2.4E-02
970	1	556267.4	3776875.81	556267.4, 3776875.81	0.007927682	0.000136617	0.018979051	2.7E-02
971	1	556239.03	3776853.02	556239.03, 3776853.0	0.00697024	0.000119452	0.017014364	2.4E-02
972	1	556178.76	3776751.21	556178.76, 3776751.2	0.005074009	8.60987E-05	0.012326533	1.7E-02
973	1	556154.45	3776774.51	556154.45, 3776774.5	0.004991216	8.60115E-05	0.012889303	1.8E-02
974	1	556119.5	3776705.11	556119.5, 3776705.11	0.00417022	7.0717E-05	0.010229282	1.4E-02
975	1	556146.51	3777267.93	556146.51, 3777267.9	0.015394893	0.00022267	0.031748555	4.7E-02
976	1	556151	3777234.88	556151, 3777234.88	0.014224079	0.000221131	0.03046486	4.5E-02
977	1	556144.93	3777179.58	556144.93, 3777179.5	0.011803087	0.000206128	0.027574077	4.0E-02
978	1	556205.18	3777236.46	556205.18, 3777236.4	0.017406676	0.000261337	0.035437494	5.3E-02
979	1	556218	3777200.04	556218, 3777200.04	0.016195046	0.00026078	0.034482301	5.1E-02
	1	556774.37	3777347.57	556774.37, 3777347.5	0.167547994	0.002242637	0.414280528	5.8E-01

Worker Risk

Discrete Receptor ID					Concentration [ug/m^3]		Worker Dose		Worker Risk		
	X	Y	X, Y		Construction Total	Operations Total	Construction	Operations	Construction	Operations	Total Risk
1	1	556521.71	3777341.57	556521.71, 3777341.57	0.000742063	1.56392E-06	4.9E-07	1.0E-09	7.7E-09	3.9E-10	8.1E-09
2	1	556539.9	3777344.94	556539.9, 3777344.94	0.000793448	1.67168E-06	5.2E-07	1.1E-09	8.2E-09	4.2E-10	8.7E-09
3	1	556591.78	3777345.39	556591.78, 3777345.39	0.000984908	2.07373E-06	6.5E-07	1.4E-09	1.0E-08	5.2E-10	1.1E-08
4	1	556630.62	3777349.66	556630.62, 3777349.66	0.00109822	2.3453E-06	7.3E-07	1.6E-09	1.1E-08	5.9E-10	1.2E-08
5	1	556684.29	3777349.43	556684.29, 3777349.43	0.001280868	2.82506E-06	8.5E-07	1.9E-09	1.3E-08	7.0E-10	1.4E-08
6	1	556905.58	3777351.19	556905.58, 3777351.19	0.001115822	4.09958E-06	7.4E-07	2.7E-09	1.2E-08	1.0E-09	1.3E-08
7	1	556920.93	3777350.82	556920.93, 3777350.82	0.001036747	3.84021E-06	6.9E-07	2.5E-09	1.1E-08	9.6E-10	1.2E-08
8	1	556942.87	3777350.09	556942.87, 3777350.09	0.000921685	3.34111E-06	6.1E-07	2.2E-09	9.6E-09	8.3E-10	1.0E-08
9	1	556996.26	3777348.26	556996.26, 3777348.26	0.000668763	2.11048E-06	4.4E-07	1.4E-09	7.0E-09	5.3E-10	7.5E-09
10	1	557096.81	3777357.77	557096.81, 3777357.77	0.000347508	9.95722E-07	2.3E-07	6.6E-10	3.6E-09	2.5E-10	3.9E-09
11	1	557115.83	3777363.62	557115.83, 3777363.62	0.000306032	8.82488E-07	2.0E-07	5.8E-10	3.2E-09	2.2E-10	3.4E-09
12	1	557129.36	3777361.43	557129.36, 3777361.43	0.000287225	8.28527E-07	1.9E-07	5.5E-10	3.0E-09	2.1E-10	3.2E-09
13	1	557230.65	3777363.99	557230.65, 3777363.99	0.000174193	5.30946E-07	1.2E-07	3.5E-10	1.8E-09	1.3E-10	1.9E-09
14	1	556466.22	3776816.07	556466.22, 3776816.07	9.73237E-05	2.63073E-07	6.4E-08	1.7E-10	1.0E-09	6.6E-11	1.1E-09
15	1	556407.87	3776826.19	556407.87, 3776826.19	8.54676E-05	2.42197E-07	5.7E-08	1.6E-10	8.9E-10	6.0E-11	9.5E-10
16	1	556381.07	3776807.14	556381.07, 3776807.14	7.56178E-05	2.18107E-07	5.0E-08	1.4E-10	7.9E-10	5.4E-11	8.4E-10
17	1	556404.29	3776771.52	556404.29, 3776771.52	7.21073E-05	2.02621E-07	4.8E-08	1.3E-10	7.5E-10	5.1E-11	8.0E-10
18	1	556465.21	3776739.51	556465.21, 3776739.51	7.67815E-05	2.02383E-07	5.1E-08	1.3E-10	8.0E-10	5.1E-11	8.5E-10
19	1	556396.1	3776739.93	556396.1, 3776739.93	6.48253E-05	1.82154E-07	4.3E-08	1.2E-10	6.7E-10	4.5E-11	7.2E-10
20	1	556323.99	3777265.43	556323.99, 3777265.43	0.000271354	6.77005E-07	1.8E-07	4.5E-10	2.8E-09	1.7E-10	3.0E-09
21	1	556330.6	3777233.99	556330.6, 3777233.99	0.000252969	6.80237E-07	1.7E-07	4.5E-10	2.6E-09	1.7E-10	2.8E-09
22	1	556321.08	3777200.43	556321.08, 3777200.43	0.000212336	6.25417E-07	1.4E-07	4.1E-10	2.2E-09	1.6E-10	2.4E-09
23	1	556275.11	3777267.81	556275.11, 3777267.81	0.000219004	5.61084E-07	1.4E-07	3.7E-10	2.3E-09	1.4E-10	2.4E-09
24	1	556278.28	3777233.46	556278.28, 3777233.46	0.000199325	5.54216E-07	1.3E-07	3.7E-10	2.1E-09	1.4E-10	2.2E-09
25	UCART1	556509.4	3777373.38	556509.4, 3777373.38	0.000612084	1.31052E-06	4.0E-07	8.7E-10	6.4E-09	3.3E-10	6.7E-09
26	UCART1	556529.4	3777373.38	556529.4, 3777373.38	0.000657602	1.41334E-06	4.4E-07	9.4E-10	6.8E-09	3.5E-10	7.2E-09
27	UCART1	556549.4	3777373.38	556549.4, 3777373.38	0.000704384	1.52156E-06	4.7E-07	1.0E-09	7.3E-09	3.8E-10	7.7E-09
28	UCART1	556569.4	3777373.38	556569.4, 3777373.38	0.000752069	1.63379E-06	5.0E-07	1.1E-09	7.8E-09	4.1E-10	8.2E-09
29	UCART1	556589.4	3777373.38	556589.4, 3777373.38	0.000799383	1.7522E-06	5.3E-07	1.2E-09	8.3E-09	4.4E-10	8.7E-09
30	UCART1	556609.4	3777373.38	556609.4, 3777373.38	0.000846255	1.87378E-06	5.6E-07	1.2E-09	8.8E-09	4.7E-10	9.3E-09
31	UCART1	556629.4	3777373.38	556629.4, 3777373.38	0.000891122	2.00083E-06	5.9E-07	1.3E-09	9.3E-09	5.0E-10	9.8E-09
32	UCART1	556649.4	3777373.38	556649.4, 3777373.38	0.000933302	2.12915E-06	6.2E-07	1.4E-09	9.7E-09	5.3E-10	1.0E-08
33	UCART1	556669.4	3777373.38	556669.4, 3777373.38	0.000970487	2.25913E-06	6.4E-07	1.5E-09	1.0E-08	5.6E-10	1.1E-08
34	UCART1	556689.4	3777373.38	556689.4, 3777373.38	0.001000772	2.38701E-06	6.6E-07	1.6E-09	1.0E-08	6.0E-10	1.1E-08
35	UCART1	556709.4	3777373.38	556709.4, 3777373.38	0.001022764	2.50882E-06	6.8E-07	1.7E-09	1.1E-08	6.3E-10	1.1E-08
36	UCART1	556729.4	3777373.38	556729.4, 3777373.38	0.001036341	2.624E-06	6.9E-07	1.7E-09	1.1E-08	6.5E-10	1.1E-08
37	UCART1	556749.4	3777373.38	556749.4, 3777373.38	0.001043249	2.73527E-06	6.9E-07	1.8E-09	1.1E-08	6.8E-10	1.2E-08
38	UCART1	556769.4	3777373.38	556769.4, 3777373.38	0.001047771	2.83954E-06	6.9E-07	1.9E-09	1.1E-08	7.1E-10	1.2E-08
39	UCART1	556789.4	3777373.38	556789.4, 3777373.38	0.001051161	2.94023E-06	7.0E-07	1.9E-09	1.1E-08	7.3E-10	1.2E-08
40	UCART1	556809.4	3777373.38	556809.4, 3777373.38	0.001052022	3.03301E-06	7.0E-07	2.0E-09	1.1E-08	7.6E-10	1.2E-08
41	UCART1	556829.4	3777373.38	556829.4, 3777373.38	0.001046102	3.10422E-06	6.9E-07	2.1E-09	1.1E-08	7.7E-10	1.2E-08
42	UCART1	556849.4	3777373.38	556849.4, 3777373.38	0.001027372	3.13904E-06	6.8E-07	2.1E-09	1.1E-08	7.8E-10	1.1E-08
43	UCART1	556869.4	3777373.38	556869.4, 3777373.38	0.000991607	3.12451E-06	6.6E-07	2.1E-09	1.0E-08	7.8E-10	1.1E-08
44	UCART1	556889.4	3777373.38	556889.4, 3777373.38	0.000939097	3.03985E-06	6.2E-07	2.0E-09	9.8E-09	7.6E-10	1.1E-08
45	UCART1	556909.4	3777373.38	556909.4, 3777373.38	0.000873312	2.87721E-06	5.8E-07	1.9E-09	9.1E-09	7.2E-10	9.8E-09
46	UCART1	556929.4	3777373.38	556929.4, 3777373.38	0.000799829	2.6448E-06	5.3E-07	1.7E-09	8.3E-09	6.6E-10	9.0E-09
47	UCART1	556949.4	3777373.38	556949.4, 3777373.38	0.000724268	2.37141E-06	4.8E-07	1.6E-09	7.5E-09	5.9E-10	8.1E-09
48	UCART1	556969.4	3777373.38	556969.4, 3777373.38	0.000651073	2.08867E-06	4.3E-07	1.4E-09	6.8E-09	5.2E-10	7.3E-09
49	UCART1	556989.4	3777373.38	556989.4, 3777373.38	0.000583056	1.82352E-06	3.9E-07	1.2E-09	6.1E-09	4.6E-10	6.5E-09
50	UCART1	557009.4	3777373.38	557009.4, 3777373.38	0.000521571	1.59174E-06	3.5E-07	1.1E-09	5.4E-09	4.0E-10	5.8E-09
51	UCART1	557029.4	3777373.38	557029.4, 3777373.38	0.000466839	1.39827E-06	3.1E-07	9.3E-10	4.9E-09	3.5E-10	5.2E-09
52	UCART1	557049.4	3777373.38	557049.4, 3777373.38	0.000418438	1.23544E-06	2.8E-07	8.2E-10	4.4E-09	3.1E-10	4.7E-09
53	UCART1	557069.4	3777373.38	557069.4, 3777373.38	0.000375666	1.09737E-06	2.5E-07	7.3E-10	3.9E-09	2.7E-10	4.2E-09
54	UCART1	557089.4	3777373.38	557089.4, 3777373.38	0.00033787	9.82065E-07	2.2E-07	6.5E-10	3.5E-09	2.5E-10	3.8E-09
55	UCART1	557109.4	3777373.38	557109.4, 3777373.38	0.000304448	8.84292E-07	2.0E-07	5.9E-10	3.2E-09	2.2E-10	3.4E-09
56	UCART1	557129.4	3777373.38	557129.4, 3777373.38	0.000274898	8.00916E-07	1.8E-07	5.3E-10	2.9E-09	2.0E-10	3.1E-09
57	UCART1	557149.4	3777373.38	557149.4, 3777373.38	0.000248778	7.29206E-07	1.6E-07	4.8E-10	2.6E-09	1.8E-10	2.8E-09
58	UCART1	557169.4	3777373.38	557169.4, 3777373.38	0.000225708	6.6742E-07	1.5E-07	4.4E-10	2.3E-09	1.7E-10	2.5E-09
59	UCART1	557189.4	3777373.38	557189.4, 3777373.38	0.000205327	6.1419E-07	1.4E-07	4.1E-10	2.1E-09	1.5E-10	2.3E-09
60	UCART1	557209.4	3777373.38	557209.4, 3777373.38	0.000187302	5.67168E-07	1.2E-07	3.8E-10	1.9E-09	1.4E-10	2.1E-09
61	UCART1	557229.4	3777373.38	557229.4, 3777373.38	0.000171334	5.25016E-07	1.1E-07	3.5E-10	1.8E-09	1.3E-10	1.9E-09
62	UCART1	557249.4	3777373.38	557249.4, 3777373.38	0.000157172	4.87326E-07	1.0E-07	3.2E-10	1.6E-09	1.2E-10	1.8E-09
63	UCART1	557269.4	3777373.38	557269.4, 3777373.38	0.000144584	4.535E-07	9.6E-08	3.0E-10	1.5E-09	1.1E-10	1.6E-09
64	UCART1	557289.4	3777373.38	557289.4, 3777373.38	0.00013338	4.23731E-07	8.8E-08	2.8E-10	1.4E-09	1.1E-10	1.5E-09
65	UCART1	557309.4	3777373.38	557309.4, 3777373.38	0.00012338	3.9708E-07	8.2E-08	2.6E-10	1.3E-09	9.9E-11	1.4E-09
66	UCART1	557329.4	3777373.38	557329.4, 3777373.38	0.000114413	3.72275E-07	7.6E-08	2.5E-10	1.2E-09	9.3E-11	1.3E-09
67	UCART1	557349.4	3777373.38	557349.4, 3777373.38	0.000106379	3.50464E-07	7.0E-08	2.3E-10	1.1E-09	8.7E-11	1.2E-09
68	UCART1	557369.4	3777373.38	557369.4, 3777373.38	9.91271E-05	3.30249E-07	6.6E-08	2.2E-10	1.0E-09	8.2E-11	1.1E-09
69	UCART1	557389.4	3777373.38	557389.4, 3777373.38	9.25875E-05	3.11816E-07	6.1E-08	2.1E-10	9.6E-10	7.8E-11	1.0E-09
70	UCART1	557409.4	3777373.38	557409.4, 3777373.38	8.66597E-05	2.94945E-07	5.7E-08	2.0E-10	9.0E-10	7.4E-11	9.7E-10
71	UCART1	557429.4	3777373.38	557429.4, 3777373.38	8.12735E-05	2.79157E-07	5.4E-08	1.8E-10	8.5E-10	7.0E-11	9.1E-10
72	UCART1	557449.4	3777373.38	557449.4, 3777373.38	7.63889E-05	2.65002E-07	5.1E-08	1.8E-10	7.9E-10	6.6E-11	8.6E-10
73	UCART1	557469.4	3777373.38	557469.4, 3777373.38	7.19255E-05	2.51713E-07	4.8E-08	1.7E-10	7.5E-10	6.3E-11	8.1E-10
74	UCART1	557489.4	3777373.38	557489.4, 3777373.38	6.78232E-05	2.38917E-07	4.5E-08	1.6E-10	7.1E-10	6.0E-11	7.6E-10
75	UCART1	556509.4	3777393.38	556509.4, 3777393.38	0.000553114	1.213E-06	3.7E-07	8.0E-10	5.8E-09	3.0E-10	6.1E-09
76	UCART1	556529.4	3777393.38	556529.4, 3777393.38	0.000587559	1.29771E-06	3.9E-07	8.6E-10	6.1E-09	3.2E-10	6.4E-09
77	UCART1	556549.4	3777393.38	556549.4, 3777393.38	0.000622024	1.38596E-06	4.1E-07	9.2E-10	6.5E-09	3.5E-10	6.8E-09
78	UCART1	556569.4	3777393.38	556569.4, 3777393.38	0.000656238	1.47671E-06	4.3E-07	9.8E-10	6.8E-09	3.7E-10	7.2E-09

Worker Risk

Discrete Receptor ID				Concentration [ug/m^3]		Worker Dose		Worker Risk		
	X	Y	X, Y	Construction Total	Operations Total	Construction	Operations	Construction	Operations	Total Risk
79	UCART1	556589.4	3777393.38 556589.4, 3777393.38	0.000689219	1.5726E-06	4.6E-07	1.0E-09	7.2E-09	3.9E-10	7.6E-09
80	UCART1	556609.4	3777393.38 556609.4, 3777393.38	0.000721187	1.66994E-06	4.8E-07	1.1E-09	7.5E-09	4.2E-10	7.9E-09
81	UCART1	556629.4	3777393.38 556629.4, 3777393.38	0.000750988	1.77068E-06	5.0E-07	1.2E-09	7.8E-09	4.4E-10	8.3E-09
82	UCART1	556649.4	3777393.38 556649.4, 3777393.38	0.000778423	1.86904E-06	5.2E-07	1.2E-09	8.1E-09	4.7E-10	8.6E-09
83	UCART1	556669.4	3777393.38 556669.4, 3777393.38	0.000801556	1.96615E-06	5.3E-07	1.3E-09	8.3E-09	4.9E-10	8.8E-09
84	UCART1	556689.4	3777393.38 556689.4, 3777393.38	0.000819082	2.06003E-06	5.4E-07	1.4E-09	8.5E-09	5.1E-10	9.0E-09
85	UCART1	556709.4	3777393.38 556709.4, 3777393.38	0.00083027	2.15054E-06	5.5E-07	1.4E-09	8.6E-09	5.4E-10	9.2E-09
86	UCART1	556729.4	3777393.38 556729.4, 3777393.38	0.000836613	2.23252E-06	5.5E-07	1.5E-09	8.7E-09	5.6E-10	9.3E-09
87	UCART1	556749.4	3777393.38 556749.4, 3777393.38	0.000839748	2.30933E-06	5.6E-07	1.5E-09	8.7E-09	5.8E-10	9.3E-09
88	UCART1	556769.4	3777393.38 556769.4, 3777393.38	0.000842601	2.37639E-06	5.6E-07	1.6E-09	8.8E-09	5.9E-10	9.4E-09
89	UCART1	556789.4	3777393.38 556789.4, 3777393.38	0.000845524	2.43318E-06	5.6E-07	1.6E-09	8.8E-09	6.1E-10	9.4E-09
90	UCART1	556809.4	3777393.38 556809.4, 3777393.38	0.000846611	2.47787E-06	5.6E-07	1.6E-09	8.8E-09	6.2E-10	9.4E-09
91	UCART1	556829.4	3777393.38 556829.4, 3777393.38	0.000842782	2.50095E-06	5.6E-07	1.7E-09	8.8E-09	6.2E-10	9.4E-09
92	UCART1	556849.4	3777393.38 556849.4, 3777393.38	0.000830195	2.49149E-06	5.5E-07	1.6E-09	8.6E-09	6.2E-10	9.3E-09
93	UCART1	556869.4	3777393.38 556869.4, 3777393.38	0.000805841	2.45202E-06	5.3E-07	1.6E-09	8.4E-09	6.1E-10	9.0E-09
94	UCART1	556889.4	3777393.38 556889.4, 3777393.38	0.000769579	2.38073E-06	5.1E-07	1.6E-09	8.0E-09	5.9E-10	8.6E-09
95	UCART1	556909.4	3777393.38 556909.4, 3777393.38	0.000723567	2.26307E-06	4.8E-07	1.5E-09	7.5E-09	5.6E-10	8.1E-09
96	UCART1	556929.4	3777393.38 556929.4, 3777393.38	0.000671013	2.11391E-06	4.4E-07	1.4E-09	7.0E-09	5.3E-10	7.5E-09
97	UCART1	556949.4	3777393.38 556949.4, 3777393.38	0.000615529	1.93336E-06	4.1E-07	1.3E-09	6.4E-09	4.8E-10	6.9E-09
98	UCART1	556969.4	3777393.38 556969.4, 3777393.38	0.000560345	1.74823E-06	3.7E-07	1.2E-09	5.8E-09	4.4E-10	6.3E-09
99	UCART1	556989.4	3777393.38 556989.4, 3777393.38	0.00050775	1.56755E-06	3.4E-07	1.0E-09	5.3E-09	3.9E-10	5.7E-09
100	UCART1	557009.4	3777393.38 557009.4, 3777393.38	0.000459138	1.40094E-06	3.0E-07	9.3E-10	4.8E-09	3.5E-10	5.1E-09
101	UCART1	557029.4	3777393.38 557029.4, 3777393.38	0.00041508	1.25116E-06	2.7E-07	8.3E-10	4.3E-09	3.1E-10	4.6E-09
102	UCART1	557049.4	3777393.38 557049.4, 3777393.38	0.000375558	1.12147E-06	2.5E-07	7.4E-10	3.9E-09	2.8E-10	4.2E-09
103	UCART1	557069.4	3777393.38 557069.4, 3777393.38	0.000340239	1.00939E-06	2.3E-07	6.7E-10	3.5E-09	2.5E-10	3.8E-09
104	UCART1	557089.4	3777393.38 557089.4, 3777393.38	0.000308652	9.12532E-07	2.0E-07	6.0E-10	3.2E-09	2.3E-10	3.4E-09
105	UCART1	557109.4	3777393.38 557109.4, 3777393.38	0.000280395	8.28998E-07	1.9E-07	5.5E-10	2.9E-09	2.1E-10	3.1E-09
106	UCART1	557129.4	3777393.38 557129.4, 3777393.38	0.000255058	7.54565E-07	1.7E-07	5.0E-10	2.7E-09	1.9E-10	2.8E-09
107	UCART1	557149.4	3777393.38 557149.4, 3777393.38	0.000232389	6.91587E-07	1.5E-07	4.6E-10	2.4E-09	1.7E-10	2.6E-09
108	UCART1	557169.4	3777393.38 557169.4, 3777393.38	0.000212078	6.35316E-07	1.4E-07	4.2E-10	2.2E-09	1.6E-10	2.4E-09
109	UCART1	557189.4	3777393.38 557189.4, 3777393.38	0.000193913	5.86114E-07	1.3E-07	3.9E-10	2.0E-09	1.5E-10	2.2E-09
110	UCART1	557209.4	3777393.38 557209.4, 3777393.38	0.000177704	5.43626E-07	1.2E-07	3.6E-10	1.8E-09	1.4E-10	2.0E-09
111	UCART1	557229.4	3777393.38 557229.4, 3777393.38	0.00016322	5.05507E-07	1.1E-07	3.3E-10	1.7E-09	1.3E-10	1.8E-09
112	UCART1	557249.4	3777393.38 557249.4, 3777393.38	0.000150251	4.70504E-07	9.9E-08	3.1E-10	1.6E-09	1.2E-10	1.7E-09
113	UCART1	557269.4	3777393.38 557269.4, 3777393.38	0.000138656	4.39429E-07	9.2E-08	2.9E-10	1.4E-09	1.1E-10	1.6E-09
114	UCART1	557289.4	3777393.38 557289.4, 3777393.38	0.000128265	4.11249E-07	8.5E-08	2.7E-10	1.3E-09	1.0E-10	1.4E-09
115	UCART1	557309.4	3777393.38 557309.4, 3777393.38	0.000118927	3.85256E-07	7.9E-08	2.5E-10	1.2E-09	9.6E-11	1.3E-09
116	UCART1	557329.4	3777393.38 557329.4, 3777393.38	0.000110562	3.62765E-07	7.3E-08	2.4E-10	1.1E-09	9.1E-11	1.2E-09
117	UCART1	557349.4	3777393.38 557349.4, 3777393.38	0.000103009	3.41864E-07	6.8E-08	2.3E-10	1.1E-09	8.5E-11	1.2E-09
118	UCART1	557369.4	3777393.38 557369.4, 3777393.38	9.61783E-05	3.22864E-07	6.4E-08	2.1E-10	1.0E-09	8.1E-11	1.1E-09
119	UCART1	557389.4	3777393.38 557389.4, 3777393.38	8.99998E-05	3.05409E-07	6.0E-08	2.0E-10	9.4E-10	7.6E-11	1.0E-09
120	UCART1	557409.4	3777393.38 557409.4, 3777393.38	8.43729E-05	2.89061E-07	5.6E-08	1.9E-10	8.8E-10	7.2E-11	9.5E-10
121	UCART1	557429.4	3777393.38 557429.4, 3777393.38	7.92575E-05	2.74152E-07	5.2E-08	1.8E-10	8.2E-10	6.8E-11	8.9E-10
122	UCART1	557449.4	3777393.38 557449.4, 3777393.38	7.46036E-05	2.60575E-07	4.9E-08	1.7E-10	7.8E-10	6.5E-11	8.4E-10
123	UCART1	557469.4	3777393.38 557469.4, 3777393.38	7.03307E-05	2.47662E-07	4.7E-08	1.6E-10	7.3E-10	6.2E-11	7.9E-10
124	UCART1	557489.4	3777393.38 557489.4, 3777393.38	6.6409E-05	2.35384E-07	4.4E-08	1.6E-10	6.9E-10	5.9E-11	7.5E-10
125	UCART1	556509.4	3777413.38 556509.4, 3777413.38	0.000495951	1.12218E-06	3.3E-07	7.4E-10	5.2E-09	2.8E-10	5.4E-09
126	UCART1	556529.4	3777413.38 556529.4, 3777413.38	0.000521469	1.19293E-06	3.5E-07	7.9E-10	5.4E-09	3.0E-10	5.7E-09
127	UCART1	556549.4	3777413.38 556549.4, 3777413.38	0.000546435	1.26623E-06	3.6E-07	8.4E-10	5.7E-09	3.2E-10	6.0E-09
128	UCART1	556569.4	3777413.38 556569.4, 3777413.38	0.000570719	1.34134E-06	3.8E-07	8.9E-10	5.9E-09	3.3E-10	6.3E-09
129	UCART1	556589.4	3777413.38 556589.4, 3777413.38	0.000594111	1.41791E-06	3.9E-07	9.4E-10	6.2E-09	3.5E-10	6.5E-09
130	UCART1	556609.4	3777413.38 556609.4, 3777413.38	0.000616299	1.49551E-06	4.1E-07	9.9E-10	6.4E-09	3.7E-10	6.8E-09
131	UCART1	556629.4	3777413.38 556629.4, 3777413.38	0.000636572	1.57408E-06	4.2E-07	1.0E-09	6.6E-09	3.9E-10	7.0E-09
132	UCART1	556649.4	3777413.38 556649.4, 3777413.38	0.000654558	1.64936E-06	4.3E-07	1.1E-09	6.8E-09	4.1E-10	7.2E-09
133	UCART1	556669.4	3777413.38 556669.4, 3777413.38	0.000668683	1.72329E-06	4.4E-07	1.1E-09	7.0E-09	4.3E-10	7.4E-09
134	UCART1	556689.4	3777413.38 556689.4, 3777413.38	0.000678505	1.79318E-06	4.5E-07	1.2E-09	7.1E-09	4.5E-10	7.5E-09
135	UCART1	556709.4	3777413.38 556709.4, 3777413.38	0.000684205	1.85817E-06	4.5E-07	1.2E-09	7.1E-09	4.6E-10	7.6E-09
136	UCART1	556729.4	3777413.38 556729.4, 3777413.38	0.000687208	1.91599E-06	4.5E-07	1.3E-09	7.1E-09	4.8E-10	7.6E-09
137	UCART1	556749.4	3777413.38 556749.4, 3777413.38	0.000689277	1.96568E-06	4.6E-07	1.3E-09	7.2E-09	4.9E-10	7.7E-09
138	UCART1	556769.4	3777413.38 556769.4, 3777413.38	0.000691205	2.00969E-06	4.6E-07	1.3E-09	7.2E-09	5.0E-10	7.7E-09
139	UCART1	556789.4	3777413.38 556789.4, 3777413.38	0.000693754	2.03986E-06	4.6E-07	1.3E-09	7.2E-09	5.1E-10	7.7E-09
140	UCART1	556809.4	3777413.38 556809.4, 3777413.38	0.000694798	2.05907E-06	4.6E-07	1.4E-09	7.2E-09	5.1E-10	7.7E-09
141	UCART1	556829.4	3777413.38 556829.4, 3777413.38	0.000692331	2.05857E-06	4.6E-07	1.4E-09	7.2E-09	5.1E-10	7.7E-09
142	UCART1	556849.4	3777413.38 556849.4, 3777413.38	0.000683474	2.03727E-06	4.5E-07	1.3E-09	7.1E-09	5.1E-10	7.6E-09
143	UCART1	556869.4	3777413.38 556869.4, 3777413.38	0.00066628	2.00002E-06	4.4E-07	1.3E-09	6.9E-09	5.0E-10	7.4E-09
144	UCART1	556889.4	3777413.38 556889.4, 3777413.38	0.000640641	1.93813E-06	4.2E-07	1.3E-09	6.7E-09	4.8E-10	7.1E-09
145	UCART1	556909.4	3777413.38 556909.4, 3777413.38	0.000607629	1.85418E-06	4.0E-07	1.2E-09	6.3E-09	4.6E-10	6.8E-09
146	UCART1	556929.4	3777413.38 556929.4, 3777413.38	0.000569271	1.75276E-06	3.8E-07	1.2E-09	5.9E-09	4.4E-10	6.4E-09
147	UCART1	556949.4	3777413.38 556949.4, 3777413.38	0.000527923	1.62459E-06	3.5E-07	1.1E-09	5.5E-09	4.1E-10	5.9E-09
148	UCART1	556969.4	3777413.38 556969.4, 3777413.38	0.000485752	1.49235E-06	3.2E-07	9.9E-10	5.1E-09	3.7E-10	5.4E-09
149	UCART1	556989.4	3777413.38 556989.4, 3777413.38	0.000444624	1.36045E-06	2.9E-07	9.0E-10	4.6E-09	3.4E-10	5.0E-09
150	UCART1	557009.4	3777413.38 557009.4, 3777413.38	0.000405813	1.23692E-06	2.7E-07	8.2E-10	4.2E-09	3.1E-10	4.5E-09
151	UCART1	557029.4	3777413.38 557029.4, 3777413.38	0.000370032	1.12128E-06	2.4E-07	7.4E-10	3.8E-09	2.8E-10	4.1E-09
152	UCART1	557049.4	3777413.38 557049.4, 3777413.38	0.000337522	1.01835E-06	2.2E-07	6.7E-10	3.5E-09	2.5E-10	3.8E-09
153	UCART1	557069.4	3777413.38 557069.4, 3777413.38	0.000308192	9.26774E-07	2.0E-07	6.1E-10	3.2E-09	2.3E-10	3.4E-09
154	UCART1	557089.4	3777413.38 557089.4, 3777413.38	0.000281741	8.45555E-07	1.9E-07	5.6E-10	2.9E-09	2.1E-10	3.1E-09
155	UCART1	557109.4	3777413.38 557109.4, 3777413.38	0.000257857	7.74397E-07	1.7E-07	5.1E-10	2.7E-09	1.9E-10	2.9E-09
156	UCART1	557129.4	3777413.38 557129.4, 3777413.38	0.000236201	7.09088E-07	1.6E-07	4.7E-10	2.5E-09	1.8E-10	2.6E-09

Worker Risk

Discrete Receptor ID				Concentration [ug/m^3] Construction Total	Concentration [ug/m^3] Operations Total	Worker Dose Construction	Worker Dose Operations	Worker Risk Construction	Worker Risk Operations	Worker Risk Total Risk
X	Y	X, Y								
157 UCART1	557149.4	3777413.38	557149.4, 3777413.38	0.000216632	6.54051E-07	1.4E-07	4.3E-10	2.3E-09	1.6E-10	2.4E-09
158 UCART1	557169.4	3777413.38	557169.4, 3777413.38	0.000198868	6.03411E-07	1.3E-07	4.0E-10	2.1E-09	1.5E-10	2.2E-09
159 UCART1	557189.4	3777413.38	557189.4, 3777413.38	0.000182809	5.59272E-07	1.2E-07	3.7E-10	1.9E-09	1.4E-10	2.0E-09
160 UCART1	557209.4	3777413.38	557209.4, 3777413.38	0.000168316	5.20411E-07	1.1E-07	3.4E-10	1.8E-09	1.3E-10	1.9E-09
161 UCART1	557229.4	3777413.38	557229.4, 3777413.38	0.000155216	4.84821E-07	1.0E-07	3.2E-10	1.6E-09	1.2E-10	1.7E-09
162 UCART1	557249.4	3777413.38	557249.4, 3777413.38	0.0001434	4.5292E-07	9.5E-08	3.0E-10	1.5E-09	1.1E-10	1.6E-09
163 UCART1	557269.4	3777413.38	557269.4, 3777413.38	0.000132768	4.24261E-07	8.8E-08	2.8E-10	1.4E-09	1.1E-10	1.5E-09
164 UCART1	557289.4	3777413.38	557289.4, 3777413.38	0.00012318	3.98185E-07	8.2E-08	2.6E-10	1.3E-09	9.9E-11	1.4E-09
165 UCART1	557309.4	3777413.38	557309.4, 3777413.38	0.000114514	3.74398E-07	7.6E-08	2.5E-10	1.2E-09	9.3E-11	1.3E-09
166 UCART1	557329.4	3777413.38	557329.4, 3777413.38	0.00010669	3.52454E-07	7.1E-08	2.3E-10	1.1E-09	8.8E-11	1.2E-09
167 UCART1	557349.4	3777413.38	557349.4, 3777413.38	9.96187E-05	3.33162E-07	6.6E-08	2.2E-10	1.0E-09	8.3E-11	1.1E-09
168 UCART1	557369.4	3777413.38	557369.4, 3777413.38	9.31894E-05	3.14665E-07	6.2E-08	2.1E-10	9.7E-10	7.9E-11	1.0E-09
169 UCART1	557389.4	3777413.38	557389.4, 3777413.38	8.73619E-05	2.98335E-07	5.8E-08	2.0E-10	9.1E-10	7.4E-11	9.8E-10
170 UCART1	557409.4	3777413.38	557409.4, 3777413.38	8.2046E-05	2.8314E-07	5.4E-08	1.9E-10	8.5E-10	7.1E-11	9.2E-10
171 UCART1	557429.4	3777413.38	557429.4, 3777413.38	7.71814E-05	2.68443E-07	5.1E-08	1.8E-10	8.0E-10	6.7E-11	8.7E-10
172 UCART1	557449.4	3777413.38	557449.4, 3777413.38	7.2748E-05	2.55401E-07	4.8E-08	1.7E-10	7.6E-10	6.4E-11	8.2E-10
173 UCART1	557469.4	3777413.38	557469.4, 3777413.38	6.86959E-05	2.43446E-07	4.5E-08	1.6E-10	7.1E-10	6.1E-11	7.7E-10
174 UCART1	557489.4	3777413.38	557489.4, 3777413.38	6.49547E-05	2.31836E-07	4.3E-08	1.5E-10	6.8E-10	5.8E-11	7.3E-10
175 UCART1	556509.4	3777433.38	556509.4, 3777433.38	0.000442489	1.03878E-06	2.9E-07	6.9E-10	4.6E-09	2.6E-10	4.9E-09
176 UCART1	556529.4	3777433.38	556529.4, 3777433.38	0.000461377	1.09759E-06	3.1E-07	7.3E-10	4.8E-09	2.7E-10	5.1E-09
177 UCART1	556549.4	3777433.38	556549.4, 3777433.38	0.000479693	1.15759E-06	3.2E-07	7.7E-10	5.0E-09	2.9E-10	5.3E-09
178 UCART1	556569.4	3777433.38	556569.4, 3777433.38	0.000497367	1.2183E-06	3.3E-07	8.1E-10	5.2E-09	3.0E-10	5.5E-09
179 UCART1	556589.4	3777433.38	556589.4, 3777433.38	0.000514008	1.28107E-06	3.4E-07	8.5E-10	5.3E-09	3.2E-10	5.7E-09
180 UCART1	556609.4	3777433.38	556609.4, 3777433.38	0.000529587	1.3433E-06	3.5E-07	8.9E-10	5.5E-09	3.4E-10	5.8E-09
181 UCART1	556629.4	3777433.38	556629.4, 3777433.38	0.00054348	1.40458E-06	3.6E-07	9.3E-10	5.7E-09	3.5E-10	6.0E-09
182 UCART1	556649.4	3777433.38	556649.4, 3777433.38	0.000555016	1.46339E-06	3.7E-07	9.7E-10	5.8E-09	3.7E-10	6.1E-09
183 UCART1	556669.4	3777433.38	556669.4, 3777433.38	0.000563534	1.51887E-06	3.7E-07	1.0E-09	5.9E-09	3.8E-10	6.2E-09
184 UCART1	556689.4	3777433.38	556689.4, 3777433.38	0.000568752	1.57151E-06	3.8E-07	1.0E-09	5.9E-09	3.9E-10	6.3E-09
185 UCART1	556709.4	3777433.38	556709.4, 3777433.38	0.000571652	1.61744E-06	3.8E-07	1.1E-09	5.9E-09	4.0E-10	6.3E-09
186 UCART1	556729.4	3777433.38	556729.4, 3777433.38	0.000573119	1.65839E-06	3.8E-07	1.1E-09	6.0E-09	4.1E-10	6.4E-09
187 UCART1	556749.4	3777433.38	556749.4, 3777433.38	0.000574755	1.69022E-06	3.8E-07	1.1E-09	6.0E-09	4.2E-10	6.4E-09
188 UCART1	556769.4	3777433.38	556769.4, 3777433.38	0.000576512	1.71728E-06	3.8E-07	1.1E-09	6.0E-09	4.3E-10	6.4E-09
189 UCART1	556789.4	3777433.38	556789.4, 3777433.38	0.000578759	1.7318E-06	3.8E-07	1.1E-09	6.0E-09	4.3E-10	6.4E-09
190 UCART1	556809.4	3777433.38	556809.4, 3777433.38	0.000579872	1.73532E-06	3.8E-07	1.1E-09	6.0E-09	4.3E-10	6.5E-09
191 UCART1	556829.4	3777433.38	556829.4, 3777433.38	0.000578136	1.72613E-06	3.8E-07	1.1E-09	6.0E-09	4.3E-10	6.4E-09
192 UCART1	556849.4	3777433.38	556849.4, 3777433.38	0.000571736	1.70139E-06	3.8E-07	1.1E-09	5.9E-09	4.2E-10	6.4E-09
193 UCART1	556869.4	3777433.38	556869.4, 3777433.38	0.000559277	1.66849E-06	3.7E-07	1.1E-09	5.8E-09	4.2E-10	6.2E-09
194 UCART1	556889.4	3777433.38	556889.4, 3777433.38	0.000540599	1.62051E-06	3.6E-07	1.1E-09	5.6E-09	4.0E-10	6.0E-09
195 UCART1	556909.4	3777433.38	556909.4, 3777433.38	0.000516354	1.55893E-06	3.4E-07	1.0E-09	5.4E-09	3.9E-10	5.8E-09
196 UCART1	556929.4	3777433.38	556929.4, 3777433.38	0.000487837	1.48207E-06	3.2E-07	9.8E-10	5.1E-09	3.7E-10	5.4E-09
197 UCART1	556949.4	3777433.38	556949.4, 3777433.38	0.00045655	1.39325E-06	3.0E-07	9.2E-10	4.7E-09	3.5E-10	5.1E-09
198 UCART1	556969.4	3777433.38	556969.4, 3777433.38	0.00042398	1.29382E-06	2.8E-07	8.6E-10	4.4E-09	3.2E-10	4.7E-09
199 UCART1	556989.4	3777433.38	556989.4, 3777433.38	0.000391499	1.19344E-06	2.6E-07	7.9E-10	4.1E-09	3.0E-10	4.4E-09
200 UCART1	557009.4	3777433.38	557009.4, 3777433.38	0.000360273	1.1009E-06	2.4E-07	7.3E-10	3.7E-09	2.7E-10	4.0E-09
201 UCART1	557029.4	3777433.38	557029.4, 3777433.38	0.000330983	1.01051E-06	2.2E-07	6.7E-10	3.4E-09	2.5E-10	3.7E-09
202 UCART1	557049.4	3777433.38	557049.4, 3777433.38	0.00030404	9.27986E-07	2.0E-07	6.1E-10	3.2E-09	2.3E-10	3.4E-09
203 UCART1	557069.4	3777433.38	557069.4, 3777433.38	0.000279485	8.51697E-07	1.8E-07	5.6E-10	2.9E-09	2.1E-10	3.1E-09
204 UCART1	557089.4	3777433.38	557089.4, 3777433.38	0.000257196	7.82981E-07	1.7E-07	5.2E-10	2.7E-09	2.0E-10	2.9E-09
205 UCART1	557109.4	3777433.38	557109.4, 3777433.38	0.000236934	7.21989E-07	1.6E-07	4.8E-10	2.5E-09	1.8E-10	2.6E-09
206 UCART1	557129.4	3777433.38	557129.4, 3777433.38	0.000218458	6.65796E-07	1.4E-07	4.4E-10	2.3E-09	1.7E-10	2.4E-09
207 UCART1	557149.4	3777433.38	557149.4, 3777433.38	0.000201597	6.16946E-07	1.3E-07	4.1E-10	2.1E-09	1.5E-10	2.3E-09
208 UCART1	557169.4	3777433.38	557169.4, 3777433.38	0.00018614	5.71558E-07	1.2E-07	3.8E-10	1.9E-09	1.4E-10	2.1E-09
209 UCART1	557189.4	3777433.38	557189.4, 3777433.38	0.000172027	5.3221E-07	1.1E-07	3.5E-10	1.8E-09	1.3E-10	1.9E-09
210 UCART1	557209.4	3777433.38	557209.4, 3777433.38	0.000159138	4.96868E-07	1.1E-07	3.3E-10	1.7E-09	1.2E-10	1.8E-09
211 UCART1	557229.4	3777433.38	557229.4, 3777433.38	0.000147373	4.63909E-07	9.8E-08	3.1E-10	1.5E-09	1.2E-10	1.6E-09
212 UCART1	557249.4	3777433.38	557249.4, 3777433.38	0.00013669	4.35309E-07	9.0E-08	2.9E-10	1.4E-09	1.1E-10	1.5E-09
213 UCART1	557269.4	3777433.38	557269.4, 3777433.38	0.000126971	4.0874E-07	8.4E-08	2.7E-10	1.3E-09	1.0E-10	1.4E-09
214 UCART1	557289.4	3777433.38	557289.4, 3777433.38	0.000118135	3.84211E-07	7.8E-08	2.5E-10	1.2E-09	9.6E-11	1.3E-09
215 UCART1	557309.4	3777433.38	557309.4, 3777433.38	0.00011013	3.62651E-07	7.3E-08	2.4E-10	1.1E-09	9.0E-11	1.2E-09
216 UCART1	557329.4	3777433.38	557329.4, 3777433.38	0.000102839	3.42072E-07	6.8E-08	2.3E-10	1.1E-09	8.5E-11	1.2E-09
217 UCART1	557349.4	3777433.38	557349.4, 3777433.38	9.61985E-05	3.22792E-07	6.4E-08	2.1E-10	1.0E-09	8.1E-11	1.1E-09
218 UCART1	557369.4	3777433.38	557369.4, 3777433.38	9.01805E-05	3.05877E-07	6.0E-08	2.0E-10	9.4E-10	7.6E-11	1.0E-09
219 UCART1	557389.4	3777433.38	557389.4, 3777433.38	8.4714E-05	2.91051E-07	5.6E-08	1.9E-10	8.8E-10	7.3E-11	9.5E-10
220 UCART1	557409.4	3777433.38	557409.4, 3777433.38	7.9699E-05	2.76743E-07	5.3E-08	1.8E-10	8.3E-10	6.9E-11	9.0E-10
221 UCART1	557429.4	3777433.38	557429.4, 3777433.38	7.50851E-05	2.62565E-07	5.0E-08	1.7E-10	7.8E-10	6.6E-11	8.5E-10
222 UCART1	557449.4	3777433.38	557449.4, 3777433.38	7.08725E-05	2.50128E-07	4.7E-08	1.7E-10	7.4E-10	6.2E-11	8.0E-10
223 UCART1	557469.4	3777433.38	557469.4, 3777433.38	6.70109E-05	2.38491E-07	4.4E-08	1.6E-10	7.0E-10	6.0E-11	7.6E-10
224 UCART1	557489.4	3777433.38	557489.4, 3777433.38	6.34502E-05	2.27643E-07	4.2E-08	1.5E-10	6.6E-10	5.7E-11	7.2E-10
225 UCART1	556509.4	3777453.38	556509.4, 3777453.38	0.000394023	9.61822E-07	2.6E-07	6.4E-10	4.1E-09	2.4E-10	4.3E-09
226 UCART1	556529.4	3777453.38	556529.4, 3777453.38	0.000408086	1.01087E-06	2.7E-07	6.7E-10	4.2E-09	2.5E-10	4.5E-09
227 UCART1	556549.4	3777453.38	556549.4, 3777453.38	0.000421607	1.06088E-06	2.8E-07	7.0E-10	4.4E-09	2.6E-10	4.6E-09
228 UCART1	556569.4	3777453.38	556569.4, 3777453.38	0.000434677	1.11031E-06	2.9E-07	7.3E-10	4.5E-09	2.8E-10	4.8E-09
229 UCART1	556589.4	3777453.38	556589.4, 3777453.38	0.000446875	1.16064E-06	3.0E-07	7.7E-10	4.6E-09	2.9E-10	4.9E-09
230 UCART1	556609.4	3777453.38	556609.4, 3777453.38	0.00045801	1.20961E-06	3.0E-07	8.0E-10	4.8E-09	3.0E-10	5.1E-09
231 UCART1	556629.4	3777453.38	556629.4, 3777453.38	0.000467349	1.25831E-06	3.1E-07	8.3E-10	4.9E-09	3.1E-10	5.2E-09
232 UCART1	556649.4	3777453.38	556649.4, 3777453.38	0.000474652	1.30358E-06	3.1E-07	8.6E-10	4.9E-09	3.3E-10	5.3E-09
233 UCART1	556669.4	3777453.38	556669.4, 3777453.38	0.000479609	1.34518E-06	3.2E-07	8.9E-10	5.0E-09	3.4E-10	5.3E-09
234 UCART1	556689.4	3777453.38	556689.4, 3777453.38	0.000482348	1.38342E-06	3.2E-07	9.2E-10	5.0E-09	3.5E-10	5.4E-09

Worker Risk

Discrete Receptor ID			Concentration [ug/m^3]		Worker Dose		Worker Risk		
			Construction	Operations					
X	Y	X, Y	Total	Total	Construction	Operations	Construction	Operations	Total Risk
235 UCART1	556709.4	3777453.38 556709.4, 3777453.38	0.000483794	1.41603E-06	3.2E-07	9.4E-10	5.0E-09	3.5E-10	5.4E-09
236 UCART1	556729.4	3777453.38 556729.4, 3777453.38	0.000484658	1.44487E-06	3.2E-07	9.6E-10	5.0E-09	3.6E-10	5.4E-09
237 UCART1	556749.4	3777453.38 556749.4, 3777453.38	0.000485932	1.46669E-06	3.2E-07	9.7E-10	5.1E-09	3.7E-10	5.4E-09
238 UCART1	556769.4	3777453.38 556769.4, 3777453.38	0.000487748	1.48118E-06	3.2E-07	9.8E-10	5.1E-09	3.7E-10	5.4E-09
239 UCART1	556789.4	3777453.38 556789.4, 3777453.38	0.000489694	1.48676E-06	3.2E-07	9.8E-10	5.1E-09	3.7E-10	5.5E-09
240 UCART1	556809.4	3777453.38 556809.4, 3777453.38	0.000490696	1.48369E-06	3.2E-07	9.8E-10	5.1E-09	3.7E-10	5.5E-09
241 UCART1	556829.4	3777453.38 556829.4, 3777453.38	0.000489381	1.4734E-06	3.2E-07	9.7E-10	5.1E-09	3.7E-10	5.5E-09
242 UCART1	556849.4	3777453.38 556849.4, 3777453.38	0.000484656	1.45156E-06	3.2E-07	9.6E-10	5.0E-09	3.6E-10	5.4E-09
243 UCART1	556869.4	3777453.38 556869.4, 3777453.38	0.000475397	1.42407E-06	3.1E-07	9.4E-10	4.9E-09	3.6E-10	5.3E-09
244 UCART1	556889.4	3777453.38 556889.4, 3777453.38	0.000461544	1.38296E-06	3.1E-07	9.2E-10	4.8E-09	3.5E-10	5.1E-09
245 UCART1	556909.4	3777453.38 556909.4, 3777453.38	0.000443388	1.33606E-06	2.9E-07	8.8E-10	4.6E-09	3.3E-10	4.9E-09
246 UCART1	556929.4	3777453.38 556929.4, 3777453.38	0.000421812	1.27545E-06	2.8E-07	8.4E-10	4.4E-09	3.2E-10	4.7E-09
247 UCART1	556949.4	3777453.38 556949.4, 3777453.38	0.000397809	1.20916E-06	2.6E-07	8.0E-10	4.1E-09	3.0E-10	4.4E-09
248 UCART1	556969.4	3777453.38 556969.4, 3777453.38	0.000372411	1.13543E-06	2.5E-07	7.5E-10	3.9E-09	2.8E-10	4.2E-09
249 UCART1	556989.4	3777453.38 556989.4, 3777453.38	0.000346591	1.05848E-06	2.3E-07	7.0E-10	3.6E-09	2.6E-10	3.9E-09
250 UCART1	557009.4	3777453.38 557009.4, 3777453.38	0.000321264	9.82774E-07	2.1E-07	6.5E-10	3.3E-09	2.5E-10	3.6E-09
251 UCART1	557029.4	3777453.38 557029.4, 3777453.38	0.00029714	9.11243E-07	2.0E-07	6.0E-10	3.1E-09	2.3E-10	3.3E-09
252 UCART1	557049.4	3777453.38 557049.4, 3777453.38	0.000274631	8.44299E-07	1.8E-07	5.6E-10	2.9E-09	2.1E-10	3.1E-09
253 UCART1	557069.4	3777453.38 557069.4, 3777453.38	0.000253937	7.82752E-07	1.7E-07	5.2E-10	2.6E-09	2.0E-10	2.8E-09
254 UCART1	557089.4	3777453.38 557089.4, 3777453.38	0.000235009	7.25295E-07	1.6E-07	4.8E-10	2.4E-09	1.8E-10	2.6E-09
255 UCART1	557109.4	3777453.38 557109.4, 3777453.38	0.000217726	6.73115E-07	1.4E-07	4.5E-10	2.3E-09	1.7E-10	2.4E-09
256 UCART1	557129.4	3777453.38 557129.4, 3777453.38	0.000201898	6.24691E-07	1.3E-07	4.1E-10	2.1E-09	1.6E-10	2.3E-09
257 UCART1	557149.4	3777453.38 557149.4, 3777453.38	0.000187374	5.81614E-07	1.2E-07	3.8E-10	1.9E-09	1.5E-10	2.1E-09
258 UCART1	557169.4	3777453.38 557169.4, 3777453.38	0.000173953	5.4078E-07	1.2E-07	3.6E-10	1.8E-09	1.3E-10	1.9E-09
259 UCART1	557189.4	3777453.38 557189.4, 3777453.38	0.000161606	5.05365E-07	1.1E-07	3.3E-10	1.7E-09	1.3E-10	1.8E-09
260 UCART1	557209.4	3777453.38 557209.4, 3777453.38	0.000150231	4.7367E-07	9.9E-08	3.1E-10	1.6E-09	1.2E-10	1.7E-09
261 UCART1	557229.4	3777453.38 557229.4, 3777453.38	0.00013973	4.43705E-07	9.2E-08	2.9E-10	1.5E-09	1.1E-10	1.6E-09
262 UCART1	557249.4	3777453.38 557249.4, 3777453.38	0.000130111	4.17606E-07	8.6E-08	2.8E-10	1.4E-09	1.0E-10	1.5E-09
263 UCART1	557269.4	3777453.38 557269.4, 3777453.38	0.000121274	3.9301E-07	8.0E-08	2.6E-10	1.3E-09	9.8E-11	1.4E-09
264 UCART1	557289.4	3777453.38 557289.4, 3777453.38	0.00011319	3.7049E-07	7.5E-08	2.5E-10	1.2E-09	9.2E-11	1.3E-09
265 UCART1	557309.4	3777453.38 557309.4, 3777453.38	0.000105808	3.50302E-07	7.0E-08	2.3E-10	1.1E-09	8.7E-11	1.2E-09
266 UCART1	557329.4	3777453.38 557329.4, 3777453.38	9.90472E-05	3.31372E-07	6.6E-08	2.2E-10	1.0E-09	8.3E-11	1.1E-09
267 UCART1	557349.4	3777453.38 557349.4, 3777453.38	9.28686E-05	3.14047E-07	6.1E-08	2.1E-10	9.7E-10	7.8E-11	1.0E-09
268 UCART1	557369.4	3777453.38 557369.4, 3777453.38	8.72116E-05	2.97388E-07	5.8E-08	2.0E-10	9.1E-10	7.4E-11	9.8E-10
269 UCART1	557389.4	3777453.38 557389.4, 3777453.38	8.20461E-05	2.82711E-07	5.4E-08	1.9E-10	8.5E-10	7.1E-11	9.2E-10
270 UCART1	557409.4	3777453.38 557409.4, 3777453.38	7.73319E-05	2.69611E-07	5.1E-08	1.8E-10	8.0E-10	6.7E-11	8.7E-10
271 UCART1	557429.4	3777453.38 557429.4, 3777453.38	7.29889E-05	2.56798E-07	4.8E-08	1.7E-10	7.6E-10	6.4E-11	8.2E-10
272 UCART1	557449.4	3777453.38 557449.4, 3777453.38	6.89969E-05	2.44882E-07	4.6E-08	1.6E-10	7.2E-10	6.1E-11	7.8E-10
273 UCART1	557469.4	3777453.38 557469.4, 3777453.38	6.53158E-05	2.33638E-07	4.3E-08	1.5E-10	6.8E-10	5.8E-11	7.4E-10
274 UCART1	557489.4	3777453.38 557489.4, 3777453.38	6.19256E-05	2.23003E-07	4.1E-08	1.5E-10	6.4E-10	5.6E-11	7.0E-10
275 UCART1	556509.4	3777473.38 556509.4, 3777473.38	0.000350962	8.91187E-07	2.3E-07	5.9E-10	3.6E-09	2.2E-10	3.9E-09
276 UCART1	556529.4	3777473.38 556529.4, 3777473.38	0.000361705	9.31287E-07	2.4E-07	6.2E-10	3.8E-09	2.3E-10	4.0E-09
277 UCART1	556549.4	3777473.38 556549.4, 3777473.38	0.000371997	9.72118E-07	2.5E-07	6.4E-10	3.9E-09	2.4E-10	4.1E-09
278 UCART1	556569.4	3777473.38 556569.4, 3777473.38	0.000381677	1.01371E-06	2.5E-07	6.7E-10	4.0E-09	2.5E-10	4.2E-09
279 UCART1	556589.4	3777473.38 556589.4, 3777473.38	0.000390735	1.05348E-06	2.6E-07	7.0E-10	4.1E-09	2.6E-10	4.3E-09
280 UCART1	556609.4	3777473.38 556609.4, 3777473.38	0.00039862	1.09223E-06	2.6E-07	7.2E-10	4.1E-09	2.7E-10	4.4E-09
281 UCART1	556629.4	3777473.38 556629.4, 3777473.38	0.000404879	1.12972E-06	2.7E-07	7.5E-10	4.2E-09	2.8E-10	4.5E-09
282 UCART1	556649.4	3777473.38 556649.4, 3777473.38	0.000409294	1.165E-06	2.7E-07	7.7E-10	4.3E-09	2.9E-10	4.5E-09
283 UCART1	556669.4	3777473.38 556669.4, 3777473.38	0.000412023	1.19615E-06	2.7E-07	7.9E-10	4.3E-09	3.0E-10	4.6E-09
284 UCART1	556689.4	3777473.38 556689.4, 3777473.38	0.000413418	1.22357E-06	2.7E-07	8.1E-10	4.3E-09	3.1E-10	4.6E-09
285 UCART1	556709.4	3777473.38 556709.4, 3777473.38	0.000414091	1.24775E-06	2.7E-07	8.3E-10	4.3E-09	3.1E-10	4.6E-09
286 UCART1	556729.4	3777473.38 556729.4, 3777473.38	0.000414764	1.26795E-06	2.7E-07	8.4E-10	4.3E-09	3.2E-10	4.6E-09
287 UCART1	556749.4	3777473.38 556749.4, 3777473.38	0.000416058	1.28088E-06	2.8E-07	8.5E-10	4.3E-09	3.2E-10	4.6E-09
288 UCART1	556769.4	3777473.38 556769.4, 3777473.38	0.000417673	1.28923E-06	2.8E-07	8.5E-10	4.3E-09	3.2E-10	4.7E-09
289 UCART1	556789.4	3777473.38 556789.4, 3777473.38	0.000419377	1.28946E-06	2.8E-07	8.5E-10	4.4E-09	3.2E-10	4.7E-09
290 UCART1	556809.4	3777473.38 556809.4, 3777473.38	0.000420209	1.28423E-06	2.8E-07	8.5E-10	4.4E-09	3.2E-10	4.7E-09
291 UCART1	556829.4	3777473.38 556829.4, 3777473.38	0.000419265	1.27309E-06	2.8E-07	8.4E-10	4.4E-09	3.2E-10	4.7E-09
292 UCART1	556849.4	3777473.38 556849.4, 3777473.38	0.000415613	1.25606E-06	2.7E-07	8.3E-10	4.3E-09	3.1E-10	4.6E-09
293 UCART1	556869.4	3777473.38 556869.4, 3777473.38	0.000408611	1.23323E-06	2.7E-07	8.2E-10	4.2E-09	3.1E-10	4.6E-09
294 UCART1	556889.4	3777473.38 556889.4, 3777473.38	0.000398099	1.19984E-06	2.6E-07	7.9E-10	4.1E-09	3.0E-10	4.4E-09
295 UCART1	556909.4	3777473.38 556909.4, 3777473.38	0.000384256	1.16295E-06	2.5E-07	7.7E-10	4.0E-09	2.9E-10	4.3E-09
296 UCART1	556929.4	3777473.38 556929.4, 3777473.38	0.000367686	1.11743E-06	2.4E-07	7.4E-10	3.8E-09	2.8E-10	4.1E-09
297 UCART1	556949.4	3777473.38 556949.4, 3777473.38	0.000349059	1.06538E-06	2.3E-07	7.0E-10	3.6E-09	2.7E-10	3.9E-09
298 UCART1	556969.4	3777473.38 556969.4, 3777473.38	0.000329078	1.00778E-06	2.2E-07	6.7E-10	3.4E-09	2.5E-10	3.7E-09
299 UCART1	556989.4	3777473.38 556989.4, 3777473.38	0.000308434	9.47499E-07	2.0E-07	6.3E-10	3.2E-09	2.4E-10	3.4E-09
300 UCART1	557009.4	3777473.38 557009.4, 3777473.38	0.000287821	8.87613E-07	1.9E-07	5.9E-10	3.0E-09	2.2E-10	3.2E-09
301 UCART1	557029.4	3777473.38 557029.4, 3777473.38	0.00026782	8.28745E-07	1.8E-07	5.5E-10	2.8E-09	2.1E-10	3.0E-09
302 UCART1	557049.4	3777473.38 557049.4, 3777473.38	0.000248882	7.72738E-07	1.6E-07	5.1E-10	2.6E-09	1.9E-10	2.8E-09
303 UCART1	557069.4	3777473.38 557069.4, 3777473.38	0.000231288	7.21327E-07	1.5E-07	4.8E-10	2.4E-09	1.8E-10	2.6E-09
304 UCART1	557089.4	3777473.38 557089.4, 3777473.38	0.000215089	6.72385E-07	1.4E-07	4.4E-10	2.2E-09	1.7E-10	2.4E-09
305 UCART1	557109.4	3777473.38 557109.4, 3777473.38	0.000200234	6.27827E-07	1.3E-07	4.2E-10	2.1E-09	1.6E-10	2.2E-09
306 UCART1	557129.4	3777473.38 557129.4, 3777473.38	0.000186582	5.8554E-07	1.2E-07	3.9E-10	1.9E-09	1.5E-10	2.1E-09
307 UCART1	557149.4	3777473.38 557149.4, 3777473.38	0.000174024	5.48086E-07	1.2E-07	3.6E-10	1.8E-09	1.4E-10	1.9E-09
308 UCART1	557169.4	3777473.38 557169.4, 3777473.38	0.000162389	5.11839E-07	1.1E-07	3.4E-10	1.7E-09	1.3E-10	1.8E-09
309 UCART1	557189.4	3777473.38 557189.4, 3777473.38	0.000151606	4.79897E-07	1.0E-07	3.2E-10	1.6E-09	1.2E-10	1.7E-09
310 UCART1	557209.4	3777473.38 557209.4, 3777473.38	0.000141596	4.50949E-07	9.4E-08	3.0E-10	1.5E-09	1.1E-10	1.6E-09
311 UCART1	557229.4	3777473.38 557229.4, 3777473.38	0.000132297	4.24007E-07	8.8E-08	2.8E-10	1.4E-09	1.1E-10	1.5E-09
312 UCART1	557249.4	3777473.38 557249.4, 3777473.38	0.000123681	4.00114E-07	8.2E-08	2.6E-10	1.3E-09	1.0E-10	1.4E-09

Worker Risk

Discrete Receptor ID			Concentration [ug/m^3]		Worker Dose		Worker Risk		
			Construction	Operations					
X	Y	X, Y	Total	Total	Construction	Operations	Construction	Operations	Total Risk
313 UCART1	557269.4	3777473.38 557269.4, 3777473.38	0.000115697	3.77427E-07	7.7E-08	2.5E-10	1.2E-09	9.4E-11	1.3E-09
314 UCART1	557289.4	3777473.38 557289.4, 3777473.38	0.000108335	3.56713E-07	7.2E-08	2.4E-10	1.1E-09	8.9E-11	1.2E-09
315 UCART1	557309.4	3777473.38 557309.4, 3777473.38	0.000101545	3.37916E-07	6.7E-08	2.2E-10	1.1E-09	8.4E-11	1.1E-09
316 UCART1	557329.4	3777473.38 557329.4, 3777473.38	9.5306E-05	3.20594E-07	6.3E-08	2.1E-10	9.9E-10	8.0E-11	1.1E-09
317 UCART1	557349.4	3777473.38 557349.4, 3777473.38	8.95687E-05	3.04275E-07	5.9E-08	2.0E-10	9.3E-10	7.6E-11	1.0E-09
318 UCART1	557369.4	3777473.38 557369.4, 3777473.38	8.42929E-05	2.89251E-07	5.6E-08	1.9E-10	8.8E-10	7.2E-11	9.5E-10
319 UCART1	557389.4	3777473.38 557389.4, 3777473.38	7.94383E-05	2.75073E-07	5.3E-08	1.8E-10	8.3E-10	6.9E-11	8.9E-10
320 UCART1	557409.4	3777473.38 557409.4, 3777473.38	7.49849E-05	2.62334E-07	5.0E-08	1.7E-10	7.8E-10	6.5E-11	8.5E-10
321 UCART1	557429.4	3777473.38 557429.4, 3777473.38	7.08826E-05	2.50056E-07	4.7E-08	1.7E-10	7.4E-10	6.2E-11	8.0E-10
322 UCART1	557449.4	3777473.38 557449.4, 3777473.38	6.71112E-05	2.39237E-07	4.4E-08	1.6E-10	7.0E-10	6.0E-11	7.6E-10
323 UCART1	557469.4	3777473.38 557469.4, 3777473.38	6.36308E-05	2.28572E-07	4.2E-08	1.5E-10	6.6E-10	5.7E-11	7.2E-10
324 UCART1	557489.4	3777473.38 557489.4, 3777473.38	6.04011E-05	2.18493E-07	4.0E-08	1.4E-10	6.3E-10	5.5E-11	6.8E-10
325 UCART1	556509.4	3777493.38 556509.4, 3777493.38	0.000313238	8.26347E-07	2.1E-07	5.5E-10	3.3E-09	2.1E-10	3.5E-09
326 UCART1	556529.4	3777493.38 556529.4, 3777493.38	0.000321464	8.60677E-07	2.1E-07	5.7E-10	3.3E-09	2.1E-10	3.6E-09
327 UCART1	556549.4	3777493.38 556549.4, 3777493.38	0.000329428	8.94098E-07	2.2E-07	5.9E-10	3.4E-09	2.2E-10	3.6E-09
328 UCART1	556569.4	3777493.38 556569.4, 3777493.38	0.000336991	9.25511E-07	2.2E-07	6.1E-10	3.5E-09	2.3E-10	3.7E-09
329 UCART1	556589.4	3777493.38 556589.4, 3777493.38	0.000343622	9.57351E-07	2.3E-07	6.3E-10	3.6E-09	2.4E-10	3.8E-09
330 UCART1	556609.4	3777493.38 556609.4, 3777493.38	0.000349029	9.88831E-07	2.3E-07	6.5E-10	3.6E-09	2.5E-10	3.9E-09
331 UCART1	556629.4	3777493.38 556629.4, 3777493.38	0.000353112	1.01735E-06	2.3E-07	6.7E-10	3.7E-09	2.5E-10	3.9E-09
332 UCART1	556649.4	3777493.38 556649.4, 3777493.38	0.000355711	1.04391E-06	2.4E-07	6.9E-10	3.7E-09	2.6E-10	4.0E-09
333 UCART1	556669.4	3777493.38 556669.4, 3777493.38	0.000357005	1.06876E-06	2.4E-07	7.1E-10	3.7E-09	2.7E-10	4.0E-09
334 UCART1	556689.4	3777493.38 556689.4, 3777493.38	0.000357648	1.08902E-06	2.4E-07	7.2E-10	3.7E-09	2.7E-10	4.0E-09
335 UCART1	556709.4	3777493.38 556709.4, 3777493.38	0.00035808	1.10626E-06	2.4E-07	7.3E-10	3.7E-09	2.8E-10	4.0E-09
336 UCART1	556729.4	3777493.38 556729.4, 3777493.38	0.000358662	1.12083E-06	2.4E-07	7.4E-10	3.7E-09	2.8E-10	4.0E-09
337 UCART1	556749.4	3777493.38 556749.4, 3777493.38	0.000359946	1.12791E-06	2.4E-07	7.5E-10	3.7E-09	2.8E-10	4.0E-09
338 UCART1	556769.4	3777493.38 556769.4, 3777493.38	0.00036141	1.13216E-06	2.4E-07	7.5E-10	3.8E-09	2.8E-10	4.0E-09
339 UCART1	556789.4	3777493.38 556789.4, 3777493.38	0.000362884	1.12981E-06	2.4E-07	7.5E-10	3.8E-09	2.8E-10	4.1E-09
340 UCART1	556809.4	3777493.38 556809.4, 3777493.38	0.000363625	1.12279E-06	2.4E-07	7.4E-10	3.8E-09	2.8E-10	4.1E-09
341 UCART1	556829.4	3777493.38 556829.4, 3777493.38	0.000362862	1.11373E-06	2.4E-07	7.4E-10	3.8E-09	2.8E-10	4.1E-09
342 UCART1	556849.4	3777493.38 556849.4, 3777493.38	0.000360063	1.09858E-06	2.4E-07	7.3E-10	3.7E-09	2.7E-10	4.0E-09
343 UCART1	556869.4	3777493.38 556869.4, 3777493.38	0.000354646	1.08014E-06	2.3E-07	7.1E-10	3.7E-09	2.7E-10	4.0E-09
344 UCART1	556889.4	3777493.38 556889.4, 3777493.38	0.000346511	1.05425E-06	2.3E-07	7.0E-10	3.6E-09	2.6E-10	3.9E-09
345 UCART1	556909.4	3777493.38 556909.4, 3777493.38	0.000335778	1.02456E-06	2.2E-07	6.8E-10	3.5E-09	2.6E-10	3.7E-09
346 UCART1	556929.4	3777493.38 556929.4, 3777493.38	0.000322868	9.88264E-07	2.1E-07	6.5E-10	3.4E-09	2.5E-10	3.6E-09
347 UCART1	556949.4	3777493.38 556949.4, 3777493.38	0.000308254	9.47167E-07	2.0E-07	6.3E-10	3.2E-09	2.4E-10	3.4E-09
348 UCART1	556969.4	3777493.38 556969.4, 3777493.38	0.000292385	9.00991E-07	1.9E-07	6.0E-10	3.0E-09	2.2E-10	3.3E-09
349 UCART1	556989.4	3777493.38 556989.4, 3777493.38	0.000275785	8.53592E-07	1.8E-07	5.6E-10	2.9E-09	2.1E-10	3.1E-09
350 UCART1	557009.4	3777493.38 557009.4, 3777493.38	0.000258923	8.05428E-07	1.7E-07	5.3E-10	2.7E-09	2.0E-10	2.9E-09
351 UCART1	557029.4	3777493.38 557029.4, 3777493.38	0.000242292	7.56824E-07	1.6E-07	5.0E-10	2.5E-09	1.9E-10	2.7E-09
352 UCART1	557049.4	3777493.38 557049.4, 3777493.38	0.000226304	7.09944E-07	1.5E-07	4.7E-10	2.4E-09	1.8E-10	2.5E-09
353 UCART1	557069.4	3777493.38 557069.4, 3777493.38	0.000211248	6.66221E-07	1.4E-07	4.4E-10	2.2E-09	1.7E-10	2.4E-09
354 UCART1	557089.4	3777493.38 557089.4, 3777493.38	0.000197265	6.24182E-07	1.3E-07	4.1E-10	2.1E-09	1.6E-10	2.2E-09
355 UCART1	557109.4	3777493.38 557109.4, 3777493.38	0.000184396	5.86322E-07	1.2E-07	3.9E-10	1.9E-09	1.5E-10	2.1E-09
356 UCART1	557129.4	3777493.38 557129.4, 3777493.38	0.00017255	5.49568E-07	1.1E-07	3.6E-10	1.8E-09	1.4E-10	1.9E-09
357 UCART1	557149.4	3777493.38 557149.4, 3777493.38	0.000161627	5.16119E-07	1.1E-07	3.4E-10	1.7E-09	1.3E-10	1.8E-09
358 UCART1	557169.4	3777493.38 557169.4, 3777493.38	0.000151496	4.84688E-07	1.0E-07	3.2E-10	1.6E-09	1.2E-10	1.7E-09
359 UCART1	557189.4	3777493.38 557189.4, 3777493.38	0.000142067	4.55251E-07	9.4E-08	3.0E-10	1.5E-09	1.1E-10	1.6E-09
360 UCART1	557209.4	3777493.38 557209.4, 3777493.38	0.000133291	4.29382E-07	8.8E-08	2.8E-10	1.4E-09	1.1E-10	1.5E-09
361 UCART1	557229.4	3777493.38 557229.4, 3777493.38	0.000125076	4.04796E-07	8.3E-08	2.7E-10	1.3E-09	1.0E-10	1.4E-09
362 UCART1	557249.4	3777493.38 557249.4, 3777493.38	0.000117403	3.82517E-07	7.8E-08	2.5E-10	1.2E-09	9.5E-11	1.3E-09
363 UCART1	557269.4	3777493.38 557269.4, 3777493.38	0.000110241	3.62129E-07	7.3E-08	2.4E-10	1.1E-09	9.0E-11	1.2E-09
364 UCART1	557289.4	3777493.38 557289.4, 3777493.38	0.000103571	3.43131E-07	6.9E-08	2.3E-10	1.1E-09	8.6E-11	1.2E-09
365 UCART1	557309.4	3777493.38 557309.4, 3777493.38	9.73622E-05	3.25403E-07	6.4E-08	2.2E-10	1.0E-09	8.1E-11	1.1E-09
366 UCART1	557329.4	3777493.38 557329.4, 3777493.38	9.1625E-05	3.09239E-07	6.1E-08	2.0E-10	9.5E-10	7.7E-11	1.0E-09
367 UCART1	557349.4	3777493.38 557349.4, 3777493.38	8.6309E-05	2.94293E-07	5.7E-08	1.9E-10	9.0E-10	7.3E-11	9.7E-10
368 UCART1	557369.4	3777493.38 557369.4, 3777493.38	8.13942E-05	2.80254E-07	5.4E-08	1.9E-10	8.5E-10	7.0E-11	9.2E-10
369 UCART1	557389.4	3777493.38 557389.4, 3777493.38	7.68606E-05	2.67353E-07	5.1E-08	1.8E-10	8.0E-10	6.7E-11	8.7E-10
370 UCART1	557409.4	3777493.38 557409.4, 3777493.38	7.2678E-05	2.55247E-07	4.8E-08	1.7E-10	7.6E-10	6.4E-11	8.2E-10
371 UCART1	557429.4	3777493.38 557429.4, 3777493.38	6.87963E-05	2.43253E-07	4.6E-08	1.6E-10	7.2E-10	6.1E-11	7.8E-10
372 UCART1	557449.4	3777493.38 557449.4, 3777493.38	6.52256E-05	2.32835E-07	4.3E-08	1.5E-10	6.8E-10	5.8E-11	7.4E-10
373 UCART1	557469.4	3777493.38 557469.4, 3777493.38	6.19357E-05	2.23172E-07	4.1E-08	1.5E-10	6.4E-10	5.6E-11	7.0E-10
374 UCART1	557489.4	3777493.38 557489.4, 3777493.38	5.88766E-05	2.13722E-07	3.9E-08	1.4E-10	6.1E-10	5.3E-11	6.7E-10
375 UCART1	556509.4	3777513.38 556509.4, 3777513.38	0.000280489	7.66761E-07	1.9E-07	5.1E-10	2.9E-09	1.9E-10	3.1E-09
376 UCART1	556529.4	3777513.38 556529.4, 3777513.38	0.000287019	7.94791E-07	1.9E-07	5.3E-10	3.0E-09	2.0E-10	3.2E-09
377 UCART1	556549.4	3777513.38 556549.4, 3777513.38	0.000293259	8.21539E-07	1.9E-07	5.4E-10	3.0E-09	2.1E-10	3.3E-09
378 UCART1	556569.4	3777513.38 556569.4, 3777513.38	0.000298746	8.49823E-07	2.0E-07	5.6E-10	3.1E-09	2.1E-10	3.3E-09
379 UCART1	556589.4	3777513.38 556589.4, 3777513.38	0.00030354	8.75143E-07	2.0E-07	5.8E-10	3.2E-09	2.2E-10	3.4E-09
380 UCART1	556609.4	3777513.38 556609.4, 3777513.38	0.000307302	8.98286E-07	2.0E-07	5.9E-10	3.2E-09	2.2E-10	3.4E-09
381 UCART1	556629.4	3777513.38 556629.4, 3777513.38	0.00030973	9.21852E-07	2.0E-07	6.1E-10	3.2E-09	2.3E-10	3.5E-09
382 UCART1	556649.4	3777513.38 556649.4, 3777513.38	0.000311155	9.42031E-07	2.1E-07	6.2E-10	3.2E-09	2.4E-10	3.5E-09
383 UCART1	556669.4	3777513.38 556669.4, 3777513.38	0.000311808	9.59829E-07	2.1E-07	6.4E-10	3.2E-09	2.4E-10	3.5E-09
384 UCART1	556689.4	3777513.38 556689.4, 3777513.38	0.000312159	9.73969E-07	2.1E-07	6.4E-10	3.2E-09	2.4E-10	3.5E-09
385 UCART1	556709.4	3777513.38 556709.4, 3777513.38	0.00031249	9.86579E-07	2.1E-07	6.5E-10	3.2E-09	2.5E-10	3.5E-09
386 UCART1	556729.4	3777513.38 556729.4, 3777513.38	0.000313102	9.96788E-07	2.1E-07	6.6E-10	3.3E-09	2.5E-10	3.5E-09
387 UCART1	556749.4	3777513.38 556749.4, 3777513.38	0.000314296	1.00091E-06	2.1E-07	6.6E-10	3.3E-09	2.5E-10	3.5E-09
388 UCART1	556769.4	3777513.38 556769.4, 3777513.38	0.000315579	1.00307E-06	2.1E-07	6.6E-10	3.3E-09	2.5E-10	3.5E-09
389 UCART1	556789.4	3777513.38 556789.4, 3777513.38	0.000316833	9.99928E-07	2.1E-07	6.6E-10	3.3E-09	2.5E-10	3.5E-09
390 UCART1	556809.4	3777513.38 556809.4, 3777513.38	0.000317494	9.92135E-07	2.1E-07	6.6E-10	3.3E-09	2.5E-10	3.5E-09

Worker Risk

Discrete Receptor ID				Concentration [ug/m^3] Construction Total	Concentration [ug/m^3] Operations Total	Worker Dose Construction	Worker Dose Operations	Worker Risk Construction	Worker Risk Operations	Worker Risk Total Risk
X	Y	X, Y								
391 UCART1	556829.4	3777513.38	556829.4, 3777513.38	0.000316922	9.83625E-07	2.1E-07	6.5E-10	3.3E-09	2.5E-10	3.5E-09
392 UCART1	556849.4	3777513.38	556849.4, 3777513.38	0.000314714	9.70822E-07	2.1E-07	6.4E-10	3.3E-09	2.4E-10	3.5E-09
393 UCART1	556869.4	3777513.38	556869.4, 3777513.38	0.000310461	9.55718E-07	2.1E-07	6.3E-10	3.2E-09	2.4E-10	3.5E-09
394 UCART1	556889.4	3777513.38	556889.4, 3777513.38	0.000304061	9.35645E-07	2.0E-07	6.2E-10	3.2E-09	2.3E-10	3.4E-09
395 UCART1	556909.4	3777513.38	556909.4, 3777513.38	0.000295635	9.10323E-07	2.0E-07	6.0E-10	3.1E-09	2.3E-10	3.3E-09
396 UCART1	556929.4	3777513.38	556929.4, 3777513.38	0.000285434	8.82003E-07	1.9E-07	5.8E-10	3.0E-09	2.2E-10	3.2E-09
397 UCART1	556949.4	3777513.38	556949.4, 3777513.38	0.000273829	8.49095E-07	1.8E-07	5.6E-10	2.8E-09	2.1E-10	3.1E-09
398 UCART1	556969.4	3777513.38	556969.4, 3777513.38	0.00026113	8.11859E-07	1.7E-07	5.4E-10	2.7E-09	2.0E-10	2.9E-09
399 UCART1	556989.4	3777513.38	556989.4, 3777513.38	0.000247679	7.72787E-07	1.6E-07	5.1E-10	2.6E-09	1.9E-10	2.8E-09
400 UCART1	557009.4	3777513.38	557009.4, 3777513.38	0.000233847	7.33654E-07	1.5E-07	4.9E-10	2.4E-09	1.8E-10	2.6E-09
401 UCART1	557029.4	3777513.38	557029.4, 3777513.38	0.000219964	6.93394E-07	1.5E-07	4.6E-10	2.3E-09	1.7E-10	2.5E-09
402 UCART1	557049.4	3777513.38	557049.4, 3777513.38	0.000206433	6.54537E-07	1.4E-07	4.3E-10	2.1E-09	1.6E-10	2.3E-09
403 UCART1	557069.4	3777513.38	557069.4, 3777513.38	0.000193494	6.16554E-07	1.3E-07	4.1E-10	2.0E-09	1.5E-10	2.2E-09
404 UCART1	557089.4	3777513.38	557089.4, 3777513.38	0.000181377	5.80696E-07	1.2E-07	3.8E-10	1.9E-09	1.4E-10	2.0E-09
405 UCART1	557109.4	3777513.38	557109.4, 3777513.38	0.000170133	5.47374E-07	1.1E-07	3.6E-10	1.8E-09	1.4E-10	1.9E-09
406 UCART1	557129.4	3777513.38	557129.4, 3777513.38	0.000159761	5.15854E-07	1.1E-07	3.4E-10	1.7E-09	1.3E-10	1.8E-09
407 UCART1	557149.4	3777513.38	557149.4, 3777513.38	0.000150192	4.86588E-07	9.9E-08	3.2E-10	1.6E-09	1.2E-10	1.7E-09
408 UCART1	557169.4	3777513.38	557169.4, 3777513.38	0.000141325	4.58811E-07	9.4E-08	3.0E-10	1.5E-09	1.1E-10	1.6E-09
409 UCART1	557189.4	3777513.38	557189.4, 3777513.38	0.00013306	4.32396E-07	8.8E-08	2.9E-10	1.4E-09	1.1E-10	1.5E-09
410 UCART1	557209.4	3777513.38	557209.4, 3777513.38	0.000125357	4.09083E-07	8.3E-08	2.7E-10	1.3E-09	1.0E-10	1.4E-09
411 UCART1	557229.4	3777513.38	557229.4, 3777513.38	0.000118105	3.86372E-07	7.8E-08	2.6E-10	1.2E-09	9.6E-11	1.3E-09
412 UCART1	557249.4	3777513.38	557249.4, 3777513.38	0.000111314	3.66384E-07	7.4E-08	2.4E-10	1.2E-09	9.1E-11	1.2E-09
413 UCART1	557269.4	3777513.38	557269.4, 3777513.38	0.000104905	3.47337E-07	6.9E-08	2.3E-10	1.1E-09	8.7E-11	1.2E-09
414 UCART1	557289.4	3777513.38	557289.4, 3777513.38	9.88969E-05	3.29657E-07	6.5E-08	2.2E-10	1.0E-09	8.2E-11	1.1E-09
415 UCART1	557309.4	3777513.38	557309.4, 3777513.38	9.327E-05	3.13596E-07	6.2E-08	2.1E-10	9.7E-10	7.8E-11	1.0E-09
416 UCART1	557329.4	3777513.38	557329.4, 3777513.38	8.80142E-05	2.98572E-07	5.8E-08	2.0E-10	9.2E-10	7.5E-11	9.9E-10
417 UCART1	557349.4	3777513.38	557349.4, 3777513.38	8.31094E-05	2.84464E-07	5.5E-08	1.9E-10	8.6E-10	7.1E-11	9.4E-10
418 UCART1	557369.4	3777513.38	557369.4, 3777513.38	7.85457E-05	2.71239E-07	5.2E-08	1.8E-10	8.2E-10	6.8E-11	8.8E-10
419 UCART1	557389.4	3777513.38	557389.4, 3777513.38	7.4323E-05	2.59152E-07	4.9E-08	1.7E-10	7.7E-10	6.5E-11	8.4E-10
420 UCART1	557409.4	3777513.38	557409.4, 3777513.38	7.04012E-05	2.47894E-07	4.7E-08	1.6E-10	7.3E-10	6.2E-11	7.9E-10
421 UCART1	557429.4	3777513.38	557429.4, 3777513.38	6.67502E-05	2.36915E-07	4.4E-08	1.6E-10	6.9E-10	5.9E-11	7.5E-10
422 UCART1	557449.4	3777513.38	557449.4, 3777513.38	6.33801E-05	2.26794E-07	4.2E-08	1.5E-10	6.6E-10	5.7E-11	7.2E-10
423 UCART1	557469.4	3777513.38	557469.4, 3777513.38	6.02507E-05	2.17418E-07	4.0E-08	1.4E-10	6.3E-10	5.4E-11	6.8E-10
424 UCART1	557489.4	3777513.38	557489.4, 3777513.38	5.7352E-05	2.0864E-07	3.8E-08	1.4E-10	6.0E-10	5.2E-11	6.5E-10
425 UCART1	556509.4	3777533.38	556509.4, 3777533.38	0.000252123	7.12005E-07	1.7E-07	4.7E-10	2.6E-09	1.8E-10	2.8E-09
426 UCART1	556529.4	3777533.38	556529.4, 3777533.38	0.000257299	7.35473E-07	1.7E-07	4.9E-10	2.7E-09	1.8E-10	2.9E-09
427 UCART1	556549.4	3777533.38	556549.4, 3777533.38	0.000262104	7.57662E-07	1.7E-07	5.0E-10	2.7E-09	1.9E-10	2.9E-09
428 UCART1	556569.4	3777533.38	556569.4, 3777533.38	0.000266287	7.79018E-07	1.8E-07	5.2E-10	2.8E-09	1.9E-10	3.0E-09
429 UCART1	556589.4	3777533.38	556589.4, 3777533.38	0.000269648	7.99122E-07	1.8E-07	5.3E-10	2.8E-09	2.0E-10	3.0E-09
430 UCART1	556609.4	3777533.38	556609.4, 3777533.38	0.000272045	8.18165E-07	1.8E-07	5.4E-10	2.8E-09	2.0E-10	3.0E-09
431 UCART1	556629.4	3777533.38	556629.4, 3777533.38	0.00027349	8.35766E-07	1.8E-07	5.5E-10	2.8E-09	2.1E-10	3.1E-09
432 UCART1	556649.4	3777533.38	556649.4, 3777533.38	0.000274193	8.51289E-07	1.8E-07	5.6E-10	2.9E-09	2.1E-10	3.1E-09
433 UCART1	556669.4	3777533.38	556669.4, 3777533.38	0.000274514	8.6366E-07	1.8E-07	5.7E-10	2.9E-09	2.2E-10	3.1E-09
434 UCART1	556689.4	3777533.38	556689.4, 3777533.38	0.000274685	8.74841E-07	1.8E-07	5.8E-10	2.9E-09	2.2E-10	3.1E-09
435 UCART1	556709.4	3777533.38	556709.4, 3777533.38	0.000274976	8.84714E-07	1.8E-07	5.9E-10	2.9E-09	2.2E-10	3.1E-09
436 UCART1	556729.4	3777533.38	556729.4, 3777533.38	0.000275638	8.91523E-07	1.8E-07	5.9E-10	2.9E-09	2.2E-10	3.1E-09
437 UCART1	556749.4	3777533.38	556749.4, 3777533.38	0.000276701	8.94201E-07	1.8E-07	5.9E-10	2.9E-09	2.2E-10	3.1E-09
438 UCART1	556769.4	3777533.38	556769.4, 3777533.38	0.000277884	8.94322E-07	1.8E-07	5.9E-10	2.9E-09	2.2E-10	3.1E-09
439 UCART1	556789.4	3777533.38	556789.4, 3777533.38	0.000278907	8.91679E-07	1.8E-07	5.9E-10	2.9E-09	2.2E-10	3.1E-09
440 UCART1	556809.4	3777533.38	556809.4, 3777533.38	0.000279468	8.84543E-07	1.8E-07	5.9E-10	2.9E-09	2.2E-10	3.1E-09
441 UCART1	556829.4	3777533.38	556829.4, 3777533.38	0.000279006	8.77394E-07	1.8E-07	5.8E-10	2.9E-09	2.2E-10	3.1E-09
442 UCART1	556849.4	3777533.38	556849.4, 3777533.38	0.00027727	8.65651E-07	1.8E-07	5.7E-10	2.9E-09	2.2E-10	3.1E-09
443 UCART1	556869.4	3777533.38	556869.4, 3777533.38	0.000273879	8.52743E-07	1.8E-07	5.6E-10	2.8E-09	2.1E-10	3.1E-09
444 UCART1	556889.4	3777533.38	556889.4, 3777533.38	0.000268773	8.36918E-07	1.8E-07	5.5E-10	2.8E-09	2.1E-10	3.0E-09
445 UCART1	556909.4	3777533.38	556909.4, 3777533.38	0.000262053	8.16631E-07	1.7E-07	5.4E-10	2.7E-09	2.0E-10	2.9E-09
446 UCART1	556929.4	3777533.38	556929.4, 3777533.38	0.000253908	7.92924E-07	1.7E-07	5.2E-10	2.6E-09	2.0E-10	2.8E-09
447 UCART1	556949.4	3777533.38	556949.4, 3777533.38	0.000244589	7.65867E-07	1.6E-07	5.1E-10	2.5E-09	1.9E-10	2.7E-09
448 UCART1	556969.4	3777533.38	556969.4, 3777533.38	0.000234328	7.35208E-07	1.6E-07	4.9E-10	2.4E-09	1.8E-10	2.6E-09
449 UCART1	556989.4	3777533.38	556989.4, 3777533.38	0.000223365	7.03199E-07	1.5E-07	4.7E-10	2.3E-09	1.8E-10	2.5E-09
450 UCART1	557009.4	3777533.38	557009.4, 3777533.38	0.00021196	6.70745E-07	1.4E-07	4.4E-10	2.2E-09	1.7E-10	2.4E-09
451 UCART1	557029.4	3777533.38	557029.4, 3777533.38	0.000200365	6.37325E-07	1.3E-07	4.2E-10	2.1E-09	1.6E-10	2.2E-09
452 UCART1	557049.4	3777533.38	557049.4, 3777533.38	0.00018887	6.04525E-07	1.2E-07	4.0E-10	2.0E-09	1.5E-10	2.1E-09
453 UCART1	557069.4	3777533.38	557069.4, 3777533.38	0.000177746	5.72436E-07	1.2E-07	3.8E-10	1.8E-09	1.4E-10	2.0E-09
454 UCART1	557089.4	3777533.38	557089.4, 3777533.38	0.000167194	5.41484E-07	1.1E-07	3.6E-10	1.7E-09	1.4E-10	1.9E-09
455 UCART1	557109.4	3777533.38	557109.4, 3777533.38	0.000157324	5.12271E-07	1.0E-07	3.4E-10	1.6E-09	1.3E-10	1.8E-09
456 UCART1	557129.4	3777533.38	557129.4, 3777533.38	0.000148186	4.85079E-07	9.8E-08	3.2E-10	1.5E-09	1.2E-10	1.7E-09
457 UCART1	557149.4	3777533.38	557149.4, 3777533.38	0.000139731	4.59339E-07	9.2E-08	3.0E-10	1.5E-09	1.1E-10	1.6E-09
458 UCART1	557169.4	3777533.38	557169.4, 3777533.38	0.000131907	4.34224E-07	8.7E-08	2.9E-10	1.4E-09	1.1E-10	1.5E-09
459 UCART1	557189.4	3777533.38	557189.4, 3777533.38	0.000124625	4.10755E-07	8.2E-08	2.7E-10	1.3E-09	1.0E-10	1.4E-09
460 UCART1	557209.4	3777533.38	557209.4, 3777533.38	0.000117834	3.89758E-07	7.8E-08	2.6E-10	1.2E-09	9.7E-11	1.3E-09
461 UCART1	557229.4	3777533.38	557229.4, 3777533.38	0.000111425	3.68748E-07	7.4E-08	2.4E-10	1.2E-09	9.2E-11	1.3E-09
462 UCART1	557249.4	3777533.38	557249.4, 3777533.38	0.000105407	3.50513E-07	7.0E-08	2.3E-10	1.1E-09	8.7E-11	1.2E-09
463 UCART1	557269.4	3777533.38	557269.4, 3777533.38	9.97095E-05	3.32948E-07	6.6E-08	2.2E-10	1.0E-09	8.3E-11	1.1E-09
464 UCART1	557289.4	3777533.38	557289.4, 3777533.38	9.43232E-05	3.16848E-07	6.2E-08	2.1E-10	9.8E-10	7.9E-11	1.1E-09
465 UCART1	557309.4	3777533.38	557309.4, 3777533.38	8.92479E-05	3.01872E-07	5.9E-08	2.0E-10	9.3E-10	7.5E-11	1.0E-09
466 UCART1	557329.4	3777533.38	557329.4, 3777533.38	8.44635E-05	2.87902E-07	5.6E-08	1.9E-10	8.8E-10	7.2E-11	9.5E-10
467 UCART1	557349.4	3777533.38	557349.4, 3777533.38	7.997E-05	2.74891E-07	5.3E-08	1.8E-10	8.3E-10	6.9E-11	9.0E-10
468 UCART1	557369.4	3777533.38	557369.4, 3777533.38	7.57573E-05	2.62534E-07	5.0E-08	1.7E-10	7.9E-10	6.6E-11	8.5E-10

Worker Risk

Discrete Receptor ID				Concentration [ug/m^3]		Worker Dose		Worker Risk		
	X	Y	X, Y	Construction Total	Operations Total	Construction	Operations	Construction	Operations	Total Risk
469	UCART1	557389.4	3777533.38 557389.4, 3777533.38	7.18155E-05	2.50789E-07	4.8E-08	1.7E-10	7.5E-10	6.3E-11	8.1E-10
470	UCART1	557409.4	3777533.38 557409.4, 3777533.38	6.81545E-05	2.40364E-07	4.5E-08	1.6E-10	7.1E-10	6.0E-11	7.7E-10
471	UCART1	557429.4	3777533.38 557429.4, 3777533.38	6.47342E-05	2.30259E-07	4.3E-08	1.5E-10	6.7E-10	5.7E-11	7.3E-10
472	UCART1	557449.4	3777533.38 557449.4, 3777533.38	6.15647E-05	2.20877E-07	4.1E-08	1.5E-10	6.4E-10	5.5E-11	7.0E-10
473	UCART1	557469.4	3777533.38 557469.4, 3777533.38	5.85958E-05	2.11745E-07	3.9E-08	1.4E-10	6.1E-10	5.3E-11	6.6E-10
474	UCART1	557489.4	3777533.38 557489.4, 3777533.38	5.58375E-05	2.03245E-07	3.7E-08	1.3E-10	5.8E-10	5.1E-11	6.3E-10
475	UCART1	556509.4	3777553.38 556509.4, 3777553.38	0.000227489	6.62149E-07	1.5E-07	4.4E-10	2.4E-09	1.7E-10	2.5E-09
476	UCART1	556529.4	3777553.38 556529.4, 3777553.38	0.000231601	6.81291E-07	1.5E-07	4.5E-10	2.4E-09	1.7E-10	2.6E-09
477	UCART1	556549.4	3777553.38 556549.4, 3777553.38	0.000235283	6.99086E-07	1.6E-07	4.6E-10	2.4E-09	1.7E-10	2.6E-09
478	UCART1	556569.4	3777553.38 556569.4, 3777553.38	0.000238302	7.16566E-07	1.6E-07	4.7E-10	2.5E-09	1.8E-10	2.7E-09
479	UCART1	556589.4	3777553.38 556589.4, 3777553.38	0.000240559	7.32944E-07	1.6E-07	4.8E-10	2.5E-09	1.8E-10	2.7E-09
480	UCART1	556609.4	3777553.38 556609.4, 3777553.38	0.000242074	7.47314E-07	1.6E-07	4.9E-10	2.5E-09	1.9E-10	2.7E-09
481	UCART1	556629.4	3777553.38 556629.4, 3777553.38	0.000242857	7.60797E-07	1.6E-07	5.0E-10	2.5E-09	1.9E-10	2.7E-09
482	UCART1	556649.4	3777553.38 556649.4, 3777553.38	0.000243148	7.72751E-07	1.6E-07	5.1E-10	2.5E-09	1.9E-10	2.7E-09
483	UCART1	556669.4	3777553.38 556669.4, 3777553.38	0.000243319	7.81249E-07	1.6E-07	5.2E-10	2.5E-09	1.9E-10	2.7E-09
484	UCART1	556689.4	3777553.38 556689.4, 3777553.38	0.000243469	7.89398E-07	1.6E-07	5.2E-10	2.5E-09	2.0E-10	2.7E-09
485	UCART1	556709.4	3777553.38 556709.4, 3777553.38	0.0002438	7.96955E-07	1.6E-07	5.3E-10	2.5E-09	2.0E-10	2.7E-09
486	UCART1	556729.4	3777553.38 556729.4, 3777553.38	0.000244472	8.01665E-07	1.6E-07	5.3E-10	2.5E-09	2.0E-10	2.7E-09
487	UCART1	556749.4	3777553.38 556749.4, 3777553.38	0.000245495	8.02186E-07	1.6E-07	5.3E-10	2.6E-09	2.0E-10	2.8E-09
488	UCART1	556769.4	3777553.38 556769.4, 3777553.38	0.000246518	8.01827E-07	1.6E-07	5.3E-10	2.6E-09	2.0E-10	2.8E-09
489	UCART1	556789.4	3777553.38 556789.4, 3777553.38	0.00024735	7.9989E-07	1.6E-07	5.3E-10	2.6E-09	2.0E-10	2.8E-09
490	UCART1	556809.4	3777553.38 556809.4, 3777553.38	0.000247791	7.94317E-07	1.6E-07	5.3E-10	2.6E-09	2.0E-10	2.8E-09
491	UCART1	556829.4	3777553.38 556829.4, 3777553.38	0.000247429	7.87708E-07	1.6E-07	5.2E-10	2.6E-09	2.0E-10	2.8E-09
492	UCART1	556849.4	3777553.38 556849.4, 3777553.38	0.000246005	7.78131E-07	1.6E-07	5.1E-10	2.6E-09	1.9E-10	2.8E-09
493	UCART1	556869.4	3777553.38 556869.4, 3777553.38	0.000243276	7.67222E-07	1.6E-07	5.1E-10	2.5E-09	1.9E-10	2.7E-09
494	UCART1	556889.4	3777553.38 556889.4, 3777553.38	0.000239163	7.54045E-07	1.6E-07	5.0E-10	2.5E-09	1.9E-10	2.7E-09
495	UCART1	556909.4	3777553.38 556909.4, 3777553.38	0.000233727	7.37782E-07	1.5E-07	4.9E-10	2.4E-09	1.8E-10	2.6E-09
496	UCART1	556929.4	3777553.38 556929.4, 3777553.38	0.000227136	7.18922E-07	1.5E-07	4.8E-10	2.4E-09	1.8E-10	2.5E-09
497	UCART1	556949.4	3777553.38 556949.4, 3777553.38	0.000219583	6.94614E-07	1.5E-07	4.6E-10	2.3E-09	1.7E-10	2.5E-09
498	UCART1	556969.4	3777553.38 556969.4, 3777553.38	0.000211228	6.69659E-07	1.4E-07	4.4E-10	2.2E-09	1.7E-10	2.4E-09
499	UCART1	556989.4	3777553.38 556989.4, 3777553.38	0.000202221	6.42298E-07	1.3E-07	4.2E-10	2.1E-09	1.6E-10	2.3E-09
500	UCART1	557009.4	3777553.38 557009.4, 3777553.38	0.000192782	6.15176E-07	1.3E-07	4.1E-10	2.0E-09	1.5E-10	2.2E-09
501	UCART1	557029.4	3777553.38 557029.4, 3777553.38	0.000183052	5.869E-07	1.2E-07	3.9E-10	1.9E-09	1.5E-10	2.0E-09
502	UCART1	557049.4	3777553.38 557049.4, 3777553.38	0.000173303	5.59399E-07	1.1E-07	3.7E-10	1.8E-09	1.4E-10	1.9E-09
503	UCART1	557069.4	3777553.38 557069.4, 3777553.38	0.000163724	5.32139E-07	1.1E-07	3.5E-10	1.7E-09	1.3E-10	1.8E-09
504	UCART1	557089.4	3777553.38 557089.4, 3777553.38	0.000154516	5.05394E-07	1.0E-07	3.3E-10	1.6E-09	1.3E-10	1.7E-09
505	UCART1	557109.4	3777553.38 557109.4, 3777553.38	0.000145819	4.79591E-07	9.6E-08	3.2E-10	1.5E-09	1.2E-10	1.6E-09
506	UCART1	557129.4	3777553.38 557129.4, 3777553.38	0.000137715	4.55726E-07	9.1E-08	3.0E-10	1.4E-09	1.1E-10	1.5E-09
507	UCART1	557149.4	3777553.38 557149.4, 3777553.38	0.000130202	4.33051E-07	8.6E-08	2.9E-10	1.4E-09	1.1E-10	1.5E-09
508	UCART1	557169.4	3777553.38 557169.4, 3777553.38	0.000123231	4.1107E-07	8.2E-08	2.7E-10	1.3E-09	1.0E-10	1.4E-09
509	UCART1	557189.4	3777553.38 557189.4, 3777553.38	0.000116771	3.90244E-07	7.7E-08	2.6E-10	1.2E-09	9.7E-11	1.3E-09
510	UCART1	557209.4	3777553.38 557209.4, 3777553.38	0.000110743	3.7075E-07	7.3E-08	2.5E-10	1.2E-09	9.3E-11	1.2E-09
511	UCART1	557229.4	3777553.38 557229.4, 3777553.38	0.000105066	3.52157E-07	7.0E-08	2.3E-10	1.1E-09	8.8E-11	1.2E-09
512	UCART1	557249.4	3777553.38 557249.4, 3777553.38	9.97197E-05	3.34911E-07	6.6E-08	2.2E-10	1.0E-09	8.4E-11	1.1E-09
513	UCART1	557269.4	3777553.38 557269.4, 3777553.38	9.46543E-05	3.19001E-07	6.3E-08	2.1E-10	9.8E-10	8.0E-11	1.1E-09
514	UCART1	557289.4	3777553.38 557289.4, 3777553.38	8.98498E-05	3.04226E-07	5.9E-08	2.0E-10	9.3E-10	7.6E-11	1.0E-09
515	UCART1	557309.4	3777553.38 557309.4, 3777553.38	8.52861E-05	2.90359E-07	5.6E-08	1.9E-10	8.9E-10	7.2E-11	9.6E-10
516	UCART1	557329.4	3777553.38 557329.4, 3777553.38	8.0963E-05	2.77375E-07	5.4E-08	1.8E-10	8.4E-10	6.9E-11	9.1E-10
517	UCART1	557349.4	3777553.38 557349.4, 3777553.38	7.68707E-05	2.65363E-07	5.1E-08	1.8E-10	8.0E-10	6.6E-11	8.7E-10
518	UCART1	557369.4	3777553.38 557369.4, 3777553.38	7.30091E-05	2.54007E-07	4.8E-08	1.7E-10	7.6E-10	6.3E-11	8.2E-10
519	UCART1	557389.4	3777553.38 557389.4, 3777553.38	6.93581E-05	2.43009E-07	4.6E-08	1.6E-10	7.2E-10	6.1E-11	7.8E-10
520	UCART1	557409.4	3777553.38 557409.4, 3777553.38	6.59479E-05	2.33015E-07	4.4E-08	1.5E-10	6.9E-10	5.8E-11	7.4E-10
521	UCART1	557429.4	3777553.38 557429.4, 3777553.38	6.27482E-05	2.23539E-07	4.2E-08	1.5E-10	6.5E-10	5.6E-11	7.1E-10
522	UCART1	557449.4	3777553.38 557449.4, 3777553.38	5.97693E-05	2.14714E-07	4.0E-08	1.4E-10	6.2E-10	5.4E-11	6.8E-10
523	UCART1	557469.4	3777553.38 557469.4, 3777553.38	5.69709E-05	2.06248E-07	3.8E-08	1.4E-10	5.9E-10	5.1E-11	6.4E-10
524	UCART1	557489.4	3777553.38 557489.4, 3777553.38	5.4353E-05	1.9798E-07	3.6E-08	1.3E-10	5.7E-10	4.9E-11	6.1E-10
525	1	557438.91	3777336.71 557438.91, 3777336.71	8.2136E-05	2.79602E-07	5.4E-08	1.8E-10	8.5E-10	7.0E-11	9.2E-10
526	1	556615.91	3777136.99 556615.91, 3777136.99	0.000969984	5.31236E-06	6.4E-07	3.5E-09	1.0E-08	1.3E-09	1.1E-08
527	1	556586.37	3777056.16 556586.37, 3777056.16	0.000465247	1.75969E-06	3.1E-07	1.2E-09	4.8E-09	4.4E-10	5.3E-09
528	UCART4	556672.35	3776929.14 556672.35, 3776929.14	0.00040988	1.21284E-06	2.7E-07	8.0E-10	4.3E-09	3.0E-10	4.6E-09
529	UCART4	556692.35	3776929.14 556692.35, 3776929.14	0.000457854	1.30918E-06	3.0E-07	8.7E-10	4.8E-09	3.3E-10	5.1E-09
530	UCART4	556712.35	3776929.14 556712.35, 3776929.14	0.000513469	1.4107E-06	3.4E-07	9.3E-10	5.3E-09	3.5E-10	5.7E-09
531	UCART4	556732.35	3776929.14 556732.35, 3776929.14	0.000573146	1.50667E-06	3.8E-07	1.0E-09	6.0E-09	3.8E-10	6.3E-09
532	UCART4	556752.35	3776929.14 556752.35, 3776929.14	0.000640375	1.60216E-06	4.2E-07	1.1E-09	6.7E-09	4.0E-10	7.1E-09
533	UCART4	556772.35	3776929.14 556772.35, 3776929.14	0.0007001	1.6694E-06	4.6E-07	1.1E-09	7.3E-09	4.2E-10	7.7E-09
534	UCART4	556792.35	3776929.14 556792.35, 3776929.14	0.000760035	1.72063E-06	5.0E-07	1.1E-09	7.9E-09	4.3E-10	8.3E-09
535	UCART4	556812.35	3776929.14 556812.35, 3776929.14	0.000827532	1.78277E-06	5.5E-07	1.2E-09	8.6E-09	4.4E-10	9.0E-09
536	UCART4	556832.35	3776929.14 556832.35, 3776929.14	0.000883153	1.82032E-06	5.8E-07	1.2E-09	9.2E-09	4.5E-10	9.6E-09
537	UCART4	556852.35	3776929.14 556852.35, 3776929.14	0.000950157	1.86857E-06	6.3E-07	1.2E-09	9.9E-09	4.7E-10	1.0E-08
538	UCART4	556672.35	3776949.14 556672.35, 3776949.14	0.000457397	1.36739E-06	3.0E-07	9.0E-10	4.8E-09	3.4E-10	5.1E-09
539	UCART4	556692.35	3776949.14 556692.35, 3776949.14	0.000515009	1.4848E-06	3.4E-07	9.8E-10	5.4E-09	3.7E-10	5.7E-09
540	UCART4	556712.35	3776949.14 556712.35, 3776949.14	0.000581577	1.60357E-06	3.8E-07	1.1E-09	6.0E-09	4.0E-10	6.4E-09
541	UCART4	556732.35	3776949.14 556732.35, 3776949.14	0.000655857	1.71372E-06	4.3E-07	1.1E-09	6.8E-09	4.3E-10	7.2E-09
542	UCART4	556752.35	3776949.14 556752.35, 3776949.14	0.00073494	1.80697E-06	4.9E-07	1.2E-09	7.6E-09	4.5E-10	8.1E-09
543	UCART4	556772.35	3776949.14 556772.35, 3776949.14	0.000819086	1.88514E-06	5.4E-07	1.2E-09	8.5E-09	4.7E-10	9.0E-09
544	UCART4	556792.35	3776949.14 556792.35, 3776949.14	0.000907665	1.95847E-06	6.0E-07	1.3E-09	9.4E-09	4.9E-10	9.9E-09
545	UCART4	556812.35	3776949.14 556812.35, 3776949.14	0.000993996	2.01688E-06	6.6E-07	1.3E-09	1.0E-08	5.0E-10	1.1E-08
546	UCART4	556832.35	3776949.14 556832.35, 3776949.14	0.001067478	2.05739E-06	7.1E-07	1.4E-09	1.1E-08	5.1E-10	1.2E-08

Worker Risk

Discrete Receptor ID				Concentration [ug/m^3]		Worker Dose		Worker Risk		
	X	Y	X, Y	Construction Total	Operations Total	Construction	Operations	Construction	Operations	Total Risk
547 UCART4	556852.35	3776949.14	556852.35, 3776949.14	0.001155503	2.11151E-06	7.6E-07	1.4E-09	1.2E-08	5.3E-10	1.3E-08
548 UCART4	556672.35	3776969.14	556672.35, 3776969.14	0.000513249	1.55632E-06	3.4E-07	1.0E-09	5.3E-09	3.9E-10	5.7E-09
549 UCART4	556692.35	3776969.14	556692.35, 3776969.14	0.000582737	1.70093E-06	3.9E-07	1.1E-09	6.1E-09	4.2E-10	6.5E-09
550 UCART4	556712.35	3776969.14	556712.35, 3776969.14	0.000665373	1.84436E-06	4.4E-07	1.2E-09	6.9E-09	4.6E-10	7.4E-09
551 UCART4	556732.35	3776969.14	556732.35, 3776969.14	0.000759923	1.97185E-06	5.0E-07	1.3E-09	7.9E-09	4.9E-10	8.4E-09
552 UCART4	556752.35	3776969.14	556752.35, 3776969.14	0.000863276	2.07432E-06	5.7E-07	1.4E-09	9.0E-09	5.2E-10	9.5E-09
553 UCART4	556772.35	3776969.14	556772.35, 3776969.14	0.000974351	2.15539E-06	6.4E-07	1.4E-09	1.0E-08	5.4E-10	1.1E-08
554 UCART4	556792.35	3776969.14	556792.35, 3776969.14	0.001093267	2.23302E-06	7.2E-07	1.5E-09	1.1E-08	5.6E-10	1.2E-08
555 UCART4	556812.35	3776969.14	556812.35, 3776969.14	0.001207398	2.29521E-06	8.0E-07	1.5E-09	1.3E-08	5.7E-10	1.3E-08
556 UCART4	556832.35	3776969.14	556832.35, 3776969.14	0.001316594	2.34917E-06	8.7E-07	1.6E-09	1.4E-08	5.9E-10	1.4E-08
557 UCART4	556852.35	3776969.14	556852.35, 3776969.14	0.001433772	2.41186E-06	9.5E-07	1.6E-09	1.5E-08	6.0E-10	1.6E-08
558 UCART4	556672.35	3776989.14	556672.35, 3776989.14	0.000579285	1.79137E-06	3.8E-07	1.2E-09	6.0E-09	4.5E-10	6.5E-09
559 UCART4	556692.35	3776989.14	556692.35, 3776989.14	0.000663698	1.97143E-06	4.4E-07	1.3E-09	6.9E-09	4.9E-10	7.4E-09
560 UCART4	556712.35	3776989.14	556712.35, 3776989.14	0.000766754	2.14473E-06	5.1E-07	1.4E-09	8.0E-09	5.4E-10	8.5E-09
561 UCART4	556732.35	3776989.14	556732.35, 3776989.14	0.000887861	2.29062E-06	5.9E-07	1.5E-09	9.2E-09	5.7E-10	9.8E-09
562 UCART4	556752.35	3776989.14	556752.35, 3776989.14	0.001025304	2.40165E-06	6.8E-07	1.6E-09	1.1E-08	6.0E-10	1.1E-08
563 UCART4	556772.35	3776989.14	556772.35, 3776989.14	0.001175511	2.48463E-06	7.8E-07	1.6E-09	1.2E-08	6.2E-10	1.3E-08
564 UCART4	556792.35	3776989.14	556792.35, 3776989.14	0.00134016	2.56126E-06	8.9E-07	1.7E-09	1.4E-08	6.4E-10	1.5E-08
565 UCART4	556812.35	3776989.14	556812.35, 3776989.14	0.001496874	2.63159E-06	9.9E-07	1.7E-09	1.6E-08	6.6E-10	1.6E-08
566 UCART4	556832.35	3776989.14	556832.35, 3776989.14	0.001654048	2.70989E-06	1.1E-06	1.8E-09	1.7E-08	6.8E-10	1.8E-08
567 UCART4	556852.35	3776989.14	556852.35, 3776989.14	0.0018206	2.79154E-06	1.2E-06	1.8E-09	1.9E-08	7.0E-10	2.0E-08
568 UCART4	556672.35	3777009.14	556672.35, 3777009.14	0.000656397	2.08818E-06	4.3E-07	1.4E-09	6.8E-09	5.2E-10	7.3E-09
569 UCART4	556692.35	3777009.14	556692.35, 3777009.14	0.000761172	2.31695E-06	5.0E-07	1.5E-09	7.9E-09	5.8E-10	8.5E-09
570 UCART4	556712.35	3777009.14	556712.35, 3777009.14	0.000891108	2.52606E-06	5.9E-07	1.7E-09	9.3E-09	6.3E-10	9.9E-09
571 UCART4	556732.35	3777009.14	556732.35, 3777009.14	0.001047608	2.68929E-06	6.9E-07	1.8E-09	1.1E-08	6.7E-10	1.2E-08
572 UCART4	556752.35	3777009.14	556752.35, 3777009.14	0.001232598	2.80588E-06	8.2E-07	1.9E-09	1.3E-08	7.0E-10	1.4E-08
573 UCART4	556772.35	3777009.14	556772.35, 3777009.14	0.001441525	2.89091E-06	9.5E-07	1.9E-09	1.5E-08	7.2E-10	1.6E-08
574 UCART4	556792.35	3777009.14	556792.35, 3777009.14	0.001673137	2.97516E-06	1.1E-06	2.0E-09	1.7E-08	7.4E-10	1.8E-08
575 UCART4	556812.35	3777009.14	556812.35, 3777009.14	0.001900756	3.06534E-06	1.3E-06	2.0E-09	2.0E-08	7.6E-10	2.1E-08
576 UCART4	556832.35	3777009.14	556832.35, 3777009.14	0.002130591	3.17193E-06	1.4E-06	2.1E-09	2.2E-08	7.9E-10	2.3E-08
577 UCART4	556852.35	3777009.14	556852.35, 3777009.14	0.002373384	3.28421E-06	1.6E-06	2.2E-09	2.5E-08	8.2E-10	2.5E-08
578 UCART4	556672.35	3777029.14	556672.35, 3777029.14	0.000749454	2.47942E-06	5.0E-07	1.6E-09	7.8E-09	6.2E-10	8.4E-09
579 UCART4	556692.35	3777029.14	556692.35, 3777029.14	0.000879695	2.77031E-06	5.8E-07	1.8E-09	9.1E-09	6.9E-10	9.8E-09
580 UCART4	556712.35	3777029.14	556712.35, 3777029.14	0.00104661	3.02049E-06	6.9E-07	2.0E-09	1.1E-08	7.5E-10	1.2E-08
581 UCART4	556732.35	3777029.14	556732.35, 3777029.14	0.001250446	3.19429E-06	8.3E-07	2.1E-09	1.3E-08	8.0E-10	1.4E-08
582 UCART4	556752.35	3777029.14	556752.35, 3777029.14	0.001503151	3.31085E-06	9.9E-07	2.2E-09	1.6E-08	8.3E-10	1.6E-08
583 UCART4	556772.35	3777029.14	556772.35, 3777029.14	0.001801747	3.40015E-06	1.2E-06	2.2E-09	1.9E-08	8.5E-10	2.0E-08
584 UCART4	556792.35	3777029.14	556792.35, 3777029.14	0.002139496	3.5026E-06	1.4E-06	2.3E-09	2.2E-08	8.7E-10	2.3E-08
585 UCART4	556812.35	3777029.14	556812.35, 3777029.14	0.002486251	3.63365E-06	1.6E-06	2.4E-09	2.6E-08	9.1E-10	2.7E-08
586 UCART4	556832.35	3777029.14	556832.35, 3777029.14	0.002844288	3.79661E-06	1.9E-06	2.5E-09	3.0E-08	9.5E-10	3.1E-08
587 UCART4	556852.35	3777029.14	556852.35, 3777029.14	0.003188455	3.94362E-06	2.1E-06	2.6E-09	3.3E-08	9.8E-10	3.4E-08
588 UCART4	556672.35	3777049.14	556672.35, 3777049.14	0.000862491	3.01685E-06	5.7E-07	2.0E-09	9.0E-09	7.5E-10	9.7E-09
589 UCART4	556692.35	3777049.14	556692.35, 3777049.14	0.001027005	3.38854E-06	6.8E-07	2.2E-09	1.1E-08	8.5E-10	1.2E-08
590 UCART4	556712.35	3777049.14	556712.35, 3777049.14	0.001242612	3.67352E-06	8.2E-07	2.4E-09	1.3E-08	9.2E-10	1.4E-08
591 UCART4	556732.35	3777049.14	556732.35, 3777049.14	0.001514925	3.8439E-06	1.0E-06	2.5E-09	1.6E-08	9.6E-10	1.7E-08
592 UCART4	556752.35	3777049.14	556752.35, 3777049.14	0.001867186	3.95252E-06	1.2E-06	2.6E-09	1.9E-08	9.9E-10	2.0E-08
593 UCART4	556772.35	3777049.14	556772.35, 3777049.14	0.002306217	4.05505E-06	1.5E-06	2.7E-09	2.4E-08	1.0E-09	2.5E-08
594 UCART4	556792.35	3777049.14	556792.35, 3777049.14	0.002818642	4.19919E-06	1.9E-06	2.8E-09	2.9E-08	1.0E-09	3.0E-08
595 UCART4	556812.35	3777049.14	556812.35, 3777049.14	0.003382456	4.41887E-06	2.2E-06	2.9E-09	3.5E-08	1.1E-09	3.6E-08
596 UCART4	556832.35	3777049.14	556832.35, 3777049.14	0.003953743	4.67555E-06	2.6E-06	3.1E-09	4.1E-08	1.2E-09	4.2E-08
597 UCART4	556852.35	3777049.14	556852.35, 3777049.14	0.004441797	4.86486E-06	2.9E-06	3.2E-09	4.6E-08	1.2E-09	4.7E-08
598 UCART3	556927.54	3776959.53	556927.54, 3776959.53	0.001558482	2.29866E-06	1.0E-06	1.5E-09	1.6E-08	5.7E-10	1.7E-08
599 UCART3	556947.54	3776959.53	556947.54, 3776959.53	0.001463412	2.17389E-06	9.7E-07	1.4E-09	1.5E-08	5.4E-10	1.6E-08
600 UCART3	556967.54	3776959.53	556967.54, 3776959.53	0.001302851	2.01712E-06	8.6E-07	1.3E-09	1.4E-08	5.0E-10	1.4E-08
601 UCART3	556987.54	3776959.53	556987.54, 3776959.53	0.001117527	1.84462E-06	7.4E-07	1.2E-09	1.2E-08	4.6E-10	1.2E-08
602 UCART3	557007.54	3776959.53	557007.54, 3776959.53	0.000940598	1.66131E-06	6.2E-07	1.1E-09	9.8E-09	4.1E-10	1.0E-08
603 UCART3	557027.54	3776959.53	557027.54, 3776959.53	0.000790407	1.48302E-06	5.2E-07	9.8E-10	8.2E-09	3.7E-10	8.6E-09
604 UCART3	557047.54	3776959.53	557047.54, 3776959.53	0.000670002	1.31766E-06	4.4E-07	8.7E-10	7.0E-09	3.3E-10	7.3E-09
605 UCART3	557067.54	3776959.53	557067.54, 3776959.53	0.000573999	1.16921E-06	3.8E-07	7.7E-10	6.0E-09	2.9E-10	6.3E-09
606 UCART3	557087.54	3776959.53	557087.54, 3776959.53	0.000495797	1.03865E-06	3.3E-07	6.9E-10	5.2E-09	2.6E-10	5.4E-09
607 UCART3	556927.54	3776979.53	556927.54, 3776979.53	0.001842828	2.57505E-06	1.2E-06	1.7E-09	1.9E-08	6.4E-10	2.0E-08
608 UCART3	556947.54	3776979.53	556947.54, 3776979.53	0.001665176	2.40191E-06	1.1E-06	1.6E-09	1.7E-08	6.0E-10	1.8E-08
609 UCART3	556967.54	3776979.53	556967.54, 3776979.53	0.001429335	2.18908E-06	9.5E-07	1.4E-09	1.5E-08	5.5E-10	1.5E-08
610 UCART3	556987.54	3776979.53	556987.54, 3776979.53	0.001191537	1.9727E-06	7.9E-07	1.3E-09	1.2E-08	4.9E-10	1.3E-08
611 UCART3	557007.54	3776979.53	557007.54, 3776979.53	0.000986606	1.75364E-06	6.5E-07	1.2E-09	1.0E-08	4.4E-10	1.1E-08
612 UCART3	557027.54	3776979.53	557027.54, 3776979.53	0.000822684	1.54913E-06	5.4E-07	1.0E-09	8.6E-09	3.9E-10	8.9E-09
613 UCART3	557047.54	3776979.53	557047.54, 3776979.53	0.000694546	1.36546E-06	4.6E-07	9.0E-10	7.2E-09	3.4E-10	7.6E-09
614 UCART3	557067.54	3776979.53	557067.54, 3776979.53	0.000592795	1.205E-06	3.9E-07	8.0E-10	6.2E-09	3.0E-10	6.5E-09
615 UCART3	557087.54	3776979.53	557087.54, 3776979.53	0.000509489	1.06633E-06	3.4E-07	7.1E-10	5.3E-09	2.7E-10	5.6E-09
616 UCART3	556927.54	3776999.53	556927.54, 3776999.53	0.002170712	2.89858E-06	1.4E-06	1.9E-09	2.3E-08	7.2E-10	2.3E-08
617 UCART3	556947.54	3776999.53	556947.54, 3776999.53	0.001877302	2.65125E-06	1.2E-06	1.8E-09	2.0E-08	6.6E-10	2.0E-08
618 UCART3	556967.54	3776999.53	556967.54, 3776999.53	0.001552901	2.38228E-06	1.0E-06	1.6E-09	1.6E-08	5.9E-10	1.7E-08
619 UCART3	556987.54	3776999.53	556987.54, 3776999.53	0.001263242	2.1067E-06	8.4E-07	1.4E-09	1.3E-08	5.3E-10	1.4E-08
620 UCART3	557007.54	3776999.53	557007.54, 3776999.53	0.001033176	1.84818E-06	6.8E-07	1.2E-09	1.1E-08	4.6E-10	1.1E-08
621 UCART3	557027.54	3776999.53	557027.54, 3776999.53	0.000857128	1.61664E-06	5.7E-07	1.1E-09	8.9E-09	4.0E-10	9.3E-09
622 UCART3	557047.54	3776999.53	557047.54, 3776999.53	0.000720745	1.41501E-06	4.8E-07	9.4E-10	7.5E-09	3.5E-10	7.8E-09
623 UCART3	557067.54	3776999.53	557067.54, 3776999.53	0.000611933	1.24254E-06	4.0E-07	8.2E-10	6.4E-09	3.1E-10	6.7E-09
624 UCART3	557087.54	3776999.53	557087.54, 3776999.53	0.000522929	1.09633E-06	3.5E-07	7.3E-10	5.4E-09	2.7E-10	5.7E-09

Worker Risk

Discrete Receptor ID	X	Y	X, Y	Concentration [ug/m^3] Construction Total	Concentration [ug/m^3] Operations Total	Worker Dose Construction	Worker Dose Operations	Worker Risk Construction	Worker Risk Operations	Worker Risk Total Risk
625 UCART3	556927.54	3777019.53	556927.54, 3777019.53	0.002539306	3.27791E-06	1.7E-06	2.2E-09	2.6E-08	8.2E-10	2.7E-08
626 UCART3	556947.54	3777019.53	556947.54, 3777019.53	0.002092829	2.93214E-06	1.4E-06	1.9E-09	2.2E-08	7.3E-10	2.2E-08
627 UCART3	556967.54	3777019.53	556967.54, 3777019.53	0.001672316	2.58298E-06	1.1E-06	1.7E-09	1.7E-08	6.4E-10	1.8E-08
628 UCART3	556987.54	3777019.53	556987.54, 3777019.53	0.001335448	2.24638E-06	8.8E-07	1.5E-09	1.4E-08	5.6E-10	1.4E-08
629 UCART3	557007.54	3777019.53	557007.54, 3777019.53	0.001083598	1.94606E-06	7.2E-07	1.3E-09	1.1E-08	4.9E-10	1.2E-08
630 UCART3	557027.54	3777019.53	557027.54, 3777019.53	0.000894871	1.68726E-06	5.9E-07	1.1E-09	9.3E-09	4.2E-10	9.7E-09
631 UCART3	557047.54	3777019.53	557047.54, 3777019.53	0.000748459	1.46803E-06	5.0E-07	9.7E-10	7.8E-09	3.7E-10	8.1E-09
632 UCART3	557067.54	3777019.53	557067.54, 3777019.53	0.000631302	1.28397E-06	4.2E-07	8.5E-10	6.6E-09	3.2E-10	6.9E-09
633 UCART3	557087.54	3777019.53	557087.54, 3777019.53	0.000535959	1.12952E-06	3.5E-07	7.5E-10	5.6E-09	2.8E-10	5.9E-09
634 UCART3	556927.54	3777039.53	556927.54, 3777039.53	0.002945422	3.72298E-06	1.9E-06	2.5E-09	3.1E-08	9.3E-10	3.2E-08
635 UCART3	556947.54	3777039.53	556947.54, 3777039.53	0.002310072	3.24401E-06	1.5E-06	2.1E-09	2.4E-08	8.1E-10	2.5E-08
636 UCART3	556967.54	3777039.53	556967.54, 3777039.53	0.001792154	2.79724E-06	1.2E-06	1.9E-09	1.9E-08	7.0E-10	1.9E-08
637 UCART3	556987.54	3777039.53	556987.54, 3777039.53	0.001413633	2.39301E-06	9.4E-07	1.6E-09	1.5E-08	6.0E-10	1.5E-08
638 UCART3	557007.54	3777039.53	557007.54, 3777039.53	0.001140148	2.04937E-06	7.5E-07	1.4E-09	1.2E-08	5.1E-10	1.2E-08
639 UCART3	557027.54	3777039.53	557027.54, 3777039.53	0.000935865	1.76319E-06	6.2E-07	1.2E-09	9.7E-09	4.4E-10	1.0E-08
640 UCART3	557047.54	3777039.53	557047.54, 3777039.53	0.000776904	1.53465E-06	5.1E-07	1.0E-09	8.1E-09	3.8E-10	8.5E-09
641 UCART3	557067.54	3777039.53	557067.54, 3777039.53	0.000650199	1.32935E-06	4.3E-07	8.8E-10	6.8E-09	3.3E-10	7.1E-09
642 UCART3	557087.54	3777039.53	557087.54, 3777039.53	0.000548447	1.166E-06	3.6E-07	7.7E-10	5.7E-09	2.9E-10	6.0E-09
643 UCART3	557047.54	3777059.53	557047.54, 3777059.53	0.000804838	1.56946E-06	5.3E-07	1.0E-09	8.4E-09	3.9E-10	8.8E-09
644 UCART3	557067.54	3777059.53	557067.54, 3777059.53	0.000668414	1.36066E-06	4.4E-07	9.0E-10	6.9E-09	3.4E-10	7.3E-09
645 UCART3	557087.54	3777059.53	557087.54, 3777059.53	0.000560593	1.18901E-06	3.7E-07	7.9E-10	5.8E-09	3.0E-10	6.1E-09
646 UCART2	556919.02	3777174.93	556919.02, 3777174.93	0.009066521	1.02636E-05	6.0E-06	6.8E-09	9.4E-08	2.6E-09	9.7E-08
647 UCART2	556939.02	3777174.93	556939.02, 3777174.93	0.005151542	7.03408E-06	3.4E-06	4.7E-09	5.4E-08	1.8E-09	5.5E-08
648 UCART2	556919.02	3777194.93	556919.02, 3777194.93	0.007864501	1.08797E-05	5.2E-06	7.2E-09	8.2E-08	2.7E-09	8.4E-08
649 UCART2	556939.02	3777194.93	556939.02, 3777194.93	0.004751124	7.45001E-06	3.1E-06	4.9E-09	4.9E-08	1.9E-09	5.1E-08
650 UCART2	556919.02	3777214.93	556919.02, 3777214.93	0.006120629	1.12673E-05	4.0E-06	7.5E-09	6.4E-08	2.8E-09	6.6E-08
651 UCART2	556939.02	3777214.93	556939.02, 3777214.93	0.004039604	7.79365E-06	2.7E-06	5.2E-09	4.2E-08	1.9E-09	4.4E-08
652 UCART2	556919.02	3777234.93	556919.02, 3777234.93	0.004594403	1.17865E-05	3.0E-06	7.8E-09	4.8E-08	2.9E-09	5.1E-08
653 UCART2	556939.02	3777234.93	556939.02, 3777234.93	0.003279786	8.25472E-06	2.2E-06	5.5E-09	3.4E-08	2.1E-09	3.6E-08
654 UCART2	556919.02	3777254.93	556919.02, 3777254.93	0.003429601	1.30214E-05	2.3E-06	8.6E-09	3.6E-08	3.2E-09	3.9E-08
655 UCART2	556939.02	3777254.93	556939.02, 3777254.93	0.002612656	9.25437E-06	1.7E-06	6.1E-09	2.7E-08	2.3E-09	2.9E-08
656 UCART1	557023.57	3777171.57	557023.57, 3777171.57	0.001206255	2.36949E-06	8.0E-07	1.6E-09	1.3E-08	5.9E-10	1.3E-08
657 UCART1	557043.57	3777171.57	557043.57, 3777171.57	0.000951174	1.94913E-06	6.3E-07	1.3E-09	9.9E-09	4.9E-10	1.0E-08
658 UCART1	557063.57	3777171.57	557063.57, 3777171.57	0.000768217	1.63528E-06	5.1E-07	1.1E-09	8.0E-09	4.1E-10	8.4E-09
659 UCART1	557083.57	3777171.57	557083.57, 3777171.57	0.00063229	1.39703E-06	4.2E-07	9.2E-10	6.6E-09	3.5E-10	6.9E-09
660 UCART1	557023.57	3777191.57	557023.57, 3777191.57	0.001189932	2.41342E-06	7.9E-07	1.6E-09	1.2E-08	6.0E-10	1.3E-08
661 UCART1	557043.57	3777191.57	557043.57, 3777191.57	0.000942872	1.97638E-06	6.2E-07	1.3E-09	9.8E-09	4.9E-10	1.0E-08
662 UCART1	557063.57	3777191.57	557063.57, 3777191.57	0.000764177	1.65517E-06	5.1E-07	1.1E-09	7.9E-09	4.1E-10	8.4E-09
663 UCART1	557083.57	3777191.57	557083.57, 3777191.57	0.000630456	1.41353E-06	4.2E-07	9.4E-10	6.6E-09	3.5E-10	6.9E-09
664 UCART1	557023.57	3777211.57	557023.57, 3777211.57	0.001144694	2.42699E-06	7.6E-07	1.6E-09	1.2E-08	6.1E-10	1.3E-08
665 UCART1	557043.57	3777211.57	557043.57, 3777211.57	0.000914691	1.98651E-06	6.1E-07	1.3E-09	9.5E-09	5.0E-10	1.0E-08
666 UCART1	557063.57	3777211.57	557063.57, 3777211.57	0.000745914	1.66541E-06	4.9E-07	1.1E-09	7.8E-09	4.2E-10	8.2E-09
667 UCART1	557083.57	3777211.57	557083.57, 3777211.57	0.000619505	1.41967E-06	4.1E-07	9.4E-10	6.4E-09	3.5E-10	6.8E-09
668 UCART1	557023.57	3777231.57	557023.57, 3777231.57	0.001072987	2.41344E-06	7.1E-07	1.6E-09	1.1E-08	6.0E-10	1.2E-08
669 UCART1	557043.57	3777231.57	557043.57, 3777231.57	0.000868026	1.97839E-06	5.7E-07	1.3E-09	9.0E-09	4.9E-10	9.5E-09
670 UCART1	557063.57	3777231.57	557063.57, 3777231.57	0.000714543	1.66074E-06	4.7E-07	1.1E-09	7.4E-09	4.1E-10	7.8E-09
671 UCART1	557083.57	3777231.57	557083.57, 3777231.57	0.000598514	1.41341E-06	4.0E-07	9.4E-10	6.2E-09	3.5E-10	6.6E-09
672 UCART1	557023.57	3777251.57	557023.57, 3777251.57	0.000984441	2.37722E-06	6.5E-07	1.6E-09	1.0E-08	5.9E-10	1.1E-08
673 UCART1	557043.57	3777251.57	557043.57, 3777251.57	0.000808504	1.95075E-06	5.3E-07	1.3E-09	8.4E-09	4.9E-10	8.9E-09
674 UCART1	557063.57	3777251.57	557063.57, 3777251.57	0.000673132	1.63897E-06	4.5E-07	1.1E-09	7.0E-09	4.1E-10	7.4E-09
675 UCART1	557083.57	3777251.57	557083.57, 3777251.57	0.000569048	1.39056E-06	3.8E-07	9.2E-10	5.9E-09	3.5E-10	6.3E-09
676 UCART2	556249.05	3776972.85	556249.05, 3776972.85	8.20176E-05	3.07247E-07	5.4E-08	2.0E-10	8.5E-10	7.7E-11	9.3E-10
677 UCART2	556269.05	3776972.85	556269.05, 3776972.85	8.66416E-05	3.10945E-07	5.7E-08	2.1E-10	9.0E-10	7.8E-11	9.8E-10
678 UCART2	556229.05	3776992.85	556229.05, 3776992.85	8.15663E-05	3.14949E-07	5.4E-08	2.1E-10	8.5E-10	7.9E-11	9.3E-10
679 UCART2	556249.05	3776992.85	556249.05, 3776992.85	8.59797E-05	3.21579E-07	5.7E-08	2.1E-10	8.9E-10	8.0E-11	9.7E-10
680 UCART2	556269.05	3776992.85	556269.05, 3776992.85	9.12055E-05	3.36164E-07	6.0E-08	2.2E-10	9.5E-10	8.4E-11	1.0E-09
681 UCART2	556289.05	3776992.85	556289.05, 3776992.85	9.67122E-05	3.49627E-07	6.4E-08	2.3E-10	1.0E-09	8.7E-11	1.1E-09
682 UCART2	556309.05	3776992.85	556309.05, 3776992.85	0.000102831	3.58813E-07	6.8E-08	2.4E-10	1.1E-09	9.0E-11	1.2E-09
683 UCART2	556329.05	3776992.85	556329.05, 3776992.85	0.000108899	3.61122E-07	7.2E-08	2.4E-10	1.1E-09	9.0E-11	1.2E-09
684 UCART2	556209.05	3777012.85	556209.05, 3777012.85	8.1075E-05	3.1812E-07	5.4E-08	2.1E-10	8.4E-10	7.9E-11	9.2E-10
685 UCART2	556229.05	3777012.85	556229.05, 3777012.85	8.52375E-05	3.21641E-07	5.6E-08	2.1E-10	8.9E-10	8.0E-11	9.7E-10
686 UCART2	556249.05	3777012.85	556249.05, 3777012.85	9.02929E-05	3.36277E-07	6.0E-08	2.2E-10	9.4E-10	8.4E-11	1.0E-09
687 UCART2	556269.05	3777012.85	556269.05, 3777012.85	9.595E-05	3.55144E-07	6.3E-08	2.3E-10	1.0E-09	8.9E-11	1.1E-09
688 UCART2	556289.05	3777012.85	556289.05, 3777012.85	0.000102159	3.77061E-07	6.8E-08	2.5E-10	1.1E-09	9.4E-11	1.2E-09
689 UCART2	556309.05	3777012.85	556309.05, 3777012.85	0.000108679	3.90947E-07	7.2E-08	2.6E-10	1.1E-09	9.8E-11	1.2E-09
690 UCART2	556329.05	3777012.85	556329.05, 3777012.85	0.000116212	4.16936E-07	7.7E-08	2.8E-10	1.2E-09	1.0E-10	1.3E-09
691 UCART2	556209.05	3777032.85	556209.05, 3777032.85	8.43249E-05	3.24932E-07	5.6E-08	2.1E-10	8.8E-10	8.1E-11	9.6E-10
692 UCART2	556229.05	3777032.85	556229.05, 3777032.85	8.92598E-05	3.39484E-07	5.9E-08	2.2E-10	9.3E-10	8.5E-11	1.0E-09
693 UCART2	556249.05	3777032.85	556249.05, 3777032.85	9.47766E-05	3.51724E-07	6.3E-08	2.3E-10	9.9E-10	8.8E-11	1.1E-09
694 UCART2	556269.05	3777032.85	556269.05, 3777032.85	0.000100855	3.72918E-07	6.7E-08	2.5E-10	1.0E-09	9.3E-11	1.1E-09
695 UCART2	556289.05	3777032.85	556289.05, 3777032.85	0.000107716	3.9751E-07	7.1E-08	2.6E-10	1.1E-09	9.9E-11	1.2E-09
696 UCART2	556309.05	3777032.85	556309.05, 3777032.85	0.000115058	4.23073E-07	7.6E-08	2.8E-10	1.2E-09	1.1E-10	1.3E-09
697 UCART2	556209.05	3777052.85	556209.05, 3777052.85	8.81365E-05	3.34843E-07	5.8E-08	2.2E-10	9.2E-10	8.4E-11	1.0E-09
698 UCART2	556229.05	3777052.85	556229.05, 3777052.85	9.33925E-05	3.51593E-07	6.2E-08	2.3E-10	9.7E-10	8.8E-11	1.1E-09
699 UCART2	556249.05	3777052.85	556249.05, 3777052.85	9.95312E-05	3.74108E-07	6.6E-08	2.5E-10	1.0E-09	9.3E-11	1.1E-09
700 UCART2	556269.05	3777052.85	556269.05, 3777052.85	0.000106111	3.96801E-07	7.0E-08	2.6E-10	1.1E-09	9.9E-11	1.2E-09
701 UCART2	556289.05	3777052.85	556289.05, 3777052.85	0.000113434	4.22869E-07	7.5E-08	2.8E-10	1.2E-09	1.1E-10	1.3E-09
702 UCART2	556309.05	3777052.85	556309.05, 3777052.85	0.000121568	4.51925E-07	8.0E-08	3.0E-10	1.3E-09	1.1E-10	1.4E-09

Worker Risk

Discrete Receptor ID	X	Y	X, Y	Concentration [ug/m^3] Construction Total	Concentration [ug/m^3] Operations Total	Worker Dose Construction	Worker Dose Operations	Worker Risk Construction	Worker Risk Operations	Worker Risk Total Risk
703 UCART2	556249.05	3777072.85	556249.05, 3777072.85	0.000104376	3.87547E-07	6.9E-08	2.6E-10	1.1E-09	9.7E-11	1.2E-09
704 UCART2	556269.05	3777072.85	556269.05, 3777072.85	0.000111658	4.13079E-07	7.4E-08	2.7E-10	1.2E-09	1.0E-10	1.3E-09
705 UCART2	556289.05	3777072.85	556289.05, 3777072.85	0.000119582	4.40922E-07	7.9E-08	2.9E-10	1.2E-09	1.1E-10	1.4E-09
706 UCART2	556269.05	3777092.85	556269.05, 3777092.85	0.000117647	4.27275E-07	7.8E-08	2.8E-10	1.2E-09	1.1E-10	1.3E-09
707 UCART1	556441.69	3776927.49	556441.69, 3776927.49	0.000130183	3.73495E-07	8.6E-08	2.5E-10	1.4E-09	9.3E-11	1.4E-09
708 UCART1	556461.69	3776927.49	556461.69, 3776927.49	0.000140615	3.99437E-07	9.3E-08	2.6E-10	1.5E-09	1.0E-10	1.6E-09
709 UCART1	556481.69	3776927.49	556481.69, 3776927.49	0.000150816	4.18529E-07	1.0E-07	2.8E-10	1.6E-09	1.0E-10	1.7E-09
710 UCART1	556421.69	3776947.49	556421.69, 3776947.49	0.000129431	3.86623E-07	8.6E-08	2.6E-10	1.3E-09	9.6E-11	1.4E-09
711 UCART1	556441.69	3776947.49	556441.69, 3776947.49	0.000138589	4.03057E-07	9.2E-08	2.7E-10	1.4E-09	1.0E-10	1.5E-09
712 UCART1	556461.69	3776947.49	556461.69, 3776947.49	0.000150385	4.33267E-07	1.0E-07	2.9E-10	1.6E-09	1.1E-10	1.7E-09
713 UCART1	556481.69	3776947.49	556481.69, 3776947.49	0.000162221	4.57251E-07	1.1E-07	3.0E-10	1.7E-09	1.1E-10	1.8E-09
714 UCART1	556401.69	3776967.49	556401.69, 3776967.49	0.000127957	3.94534E-07	8.5E-08	2.6E-10	1.3E-09	9.8E-11	1.4E-09
715 UCART1	556421.69	3776967.49	556421.69, 3776967.49	0.000137947	4.19674E-07	9.1E-08	2.8E-10	1.4E-09	1.0E-10	1.5E-09
716 UCART1	556441.69	3776967.49	556441.69, 3776967.49	0.000147857	4.37588E-07	9.8E-08	2.9E-10	1.5E-09	1.1E-10	1.6E-09
717 UCART1	556461.69	3776967.49	556461.69, 3776967.49	0.000159924	4.64353E-07	1.1E-07	3.1E-10	1.7E-09	1.2E-10	1.8E-09
718 UCART1	556481.69	3776967.49	556481.69, 3776967.49	0.000174609	5.02535E-07	1.2E-07	3.3E-10	1.8E-09	1.3E-10	1.9E-09
719 UCART1	556401.69	3776987.49	556401.69, 3776987.49	0.000136232	4.24104E-07	9.0E-08	2.8E-10	1.4E-09	1.1E-10	1.5E-09
720 UCART1	556421.69	3776987.49	556421.69, 3776987.49	0.000146443	4.48128E-07	9.7E-08	3.0E-10	1.5E-09	1.1E-10	1.6E-09
721 UCART1	556441.69	3776987.49	556441.69, 3776987.49	0.000158741	4.80417E-07	1.1E-07	3.2E-10	1.7E-09	1.2E-10	1.8E-09
722 UCART1	556461.69	3776987.49	556461.69, 3776987.49	0.000172212	5.12902E-07	1.1E-07	3.4E-10	1.8E-09	1.3E-10	1.9E-09
723 UCART1	556481.69	3776987.49	556481.69, 3776987.49	0.000188431	5.56309E-07	1.2E-07	3.7E-10	2.0E-09	1.4E-10	2.1E-09
724 UCART1	556421.69	3777007.49	556421.69, 3777007.49	0.000156474	4.81541E-07	1.0E-07	3.2E-10	1.6E-09	1.2E-10	1.7E-09
725 UCART1	556441.69	3777007.49	556441.69, 3777007.49	0.000169173	5.13267E-07	1.1E-07	3.4E-10	1.8E-09	1.3E-10	1.9E-09
726 UCART1	556461.69	3777007.49	556461.69, 3777007.49	0.000184339	5.54107E-07	1.2E-07	3.7E-10	1.9E-09	1.4E-10	2.1E-09
727 UCART1	556481.69	3777007.49	556481.69, 3777007.49	0.000202806	6.08787E-07	1.3E-07	4.0E-10	2.1E-09	1.5E-10	2.3E-09
728 UCART1	556441.69	3777027.49	556441.69, 3777027.49	0.000181892	5.54946E-07	1.2E-07	3.7E-10	1.9E-09	1.4E-10	2.0E-09
729 UCART1	556461.69	3777027.49	556461.69, 3777027.49	0.000197771	5.96054E-07	1.3E-07	3.9E-10	2.1E-09	1.5E-10	2.2E-09
730 UCART1	556481.69	3777027.49	556481.69, 3777027.49	0.000218304	6.6059E-07	1.4E-07	4.4E-10	2.3E-09	1.6E-10	2.4E-09
731 1	556251.24	3777154.95	556251.24, 3777154.95	0.000134217	4.49183E-07	8.9E-08	3.0E-10	1.4E-09	1.1E-10	1.5E-09
732 1	556261.28	3777141.2	556261.28, 3777141.2	0.000133054	4.55406E-07	8.8E-08	3.0E-10	1.4E-09	1.1E-10	1.5E-09
733 1	556264.98	3777168.16	556264.98, 3777168.16	0.000147899	4.79886E-07	9.8E-08	3.2E-10	1.5E-09	1.2E-10	1.7E-09
734 1	556279.25	3777151.77	556279.25, 3777151.77	0.000147548	4.93008E-07	9.8E-08	3.3E-10	1.5E-09	1.2E-10	1.7E-09
735 1	556202.6	3777113.45	556202.6, 3777113.45	0.000100304	3.62915E-07	6.6E-08	2.4E-10	1.0E-09	9.1E-11	1.1E-09
736 1	556220.05	3777109.75	556220.05, 3777109.75	0.000105068	3.80305E-07	7.0E-08	2.5E-10	1.1E-09	9.5E-11	1.2E-09
737 1	556187.53	3777090.19	556187.53, 3777090.19	9.05842E-05	3.37186E-07	6.0E-08	2.2E-10	9.4E-10	8.4E-11	1.0E-09
738 1	556164.27	3777121.38	556164.27, 3777121.38	9.15472E-05	3.31463E-07	6.1E-08	2.2E-10	9.5E-10	8.3E-11	1.0E-09
739 UCART1	557510.26	3776508.23	557510.26, 3776508.23	7.00596E-05	2.44437E-07	4.6E-08	1.6E-10	7.3E-10	6.1E-11	7.9E-10
740 UCART1	557530.26	3776508.23	557530.26, 3776508.23	6.57568E-05	2.35079E-07	4.4E-08	1.6E-10	6.8E-10	5.9E-11	7.4E-10
741 UCART1	557550.26	3776508.23	557550.26, 3776508.23	6.16446E-05	2.26302E-07	4.1E-08	1.5E-10	6.4E-10	5.6E-11	7.0E-10
742 UCART1	557570.26	3776508.23	557570.26, 3776508.23	5.77831E-05	2.18131E-07	3.8E-08	1.4E-10	6.0E-10	5.4E-11	6.6E-10
743 UCART1	557590.26	3776508.23	557590.26, 3776508.23	5.42426E-05	2.10747E-07	3.6E-08	1.4E-10	5.6E-10	5.3E-11	6.2E-10
744 UCART1	557610.26	3776508.23	557610.26, 3776508.23	5.10331E-05	2.04155E-07	3.4E-08	1.4E-10	5.3E-10	5.1E-11	5.8E-10
745 UCART1	557630.26	3776508.23	557630.26, 3776508.23	4.80141E-05	1.97697E-07	3.2E-08	1.3E-10	5.0E-10	4.9E-11	5.5E-10
746 UCART1	557650.26	3776508.23	557650.26, 3776508.23	4.52659E-05	1.91748E-07	3.0E-08	1.3E-10	4.7E-10	4.8E-11	5.2E-10
747 UCART1	557670.26	3776508.23	557670.26, 3776508.23	4.26581E-05	1.85685E-07	2.8E-08	1.2E-10	4.4E-10	4.6E-11	4.9E-10
748 UCART1	557690.26	3776508.23	557690.26, 3776508.23	4.02209E-05	1.79642E-07	2.7E-08	1.2E-10	4.2E-10	4.5E-11	4.6E-10
749 UCART1	557510.26	3776528.23	557510.26, 3776528.23	6.92473E-05	2.45841E-07	4.6E-08	1.6E-10	7.2E-10	6.1E-11	7.8E-10
750 UCART1	557530.26	3776528.23	557530.26, 3776528.23	6.4794E-05	2.36279E-07	4.3E-08	1.6E-10	6.7E-10	5.9E-11	7.3E-10
751 UCART1	557550.26	3776528.23	557550.26, 3776528.23	6.06517E-05	2.27543E-07	4.0E-08	1.5E-10	6.3E-10	5.7E-11	6.9E-10
752 UCART1	557570.26	3776528.23	557570.26, 3776528.23	5.671E-05	2.19074E-07	3.8E-08	1.4E-10	5.9E-10	5.5E-11	6.4E-10
753 UCART1	557590.26	3776528.23	557590.26, 3776528.23	5.31996E-05	2.11711E-07	3.5E-08	1.4E-10	5.5E-10	5.3E-11	6.1E-10
754 UCART1	557610.26	3776528.23	557610.26, 3776528.23	4.999E-05	2.04875E-07	3.3E-08	1.4E-10	5.2E-10	5.1E-11	5.7E-10
755 UCART1	557630.26	3776528.23	557630.26, 3776528.23	4.70613E-05	1.98538E-07	3.1E-08	1.3E-10	4.9E-10	5.0E-11	5.4E-10
756 UCART1	557650.26	3776528.23	557650.26, 3776528.23	4.44034E-05	1.92613E-07	2.9E-08	1.3E-10	4.6E-10	4.8E-11	5.1E-10
757 UCART1	557670.26	3776528.23	557670.26, 3776528.23	4.18157E-05	1.86213E-07	2.8E-08	1.2E-10	4.3E-10	4.6E-11	4.8E-10
758 UCART1	557690.26	3776528.23	557690.26, 3776528.23	3.95188E-05	1.80346E-07	2.6E-08	1.2E-10	4.1E-10	4.5E-11	4.6E-10
759 UCART1	557510.26	3776548.23	557510.26, 3776548.23	6.80538E-05	2.4649E-07	4.5E-08	1.6E-10	7.1E-10	6.2E-11	7.7E-10
760 UCART1	557530.26	3776548.23	557530.26, 3776548.23	6.36708E-05	2.37326E-07	4.2E-08	1.6E-10	6.6E-10	5.9E-11	7.2E-10
761 UCART1	557550.26	3776548.23	557550.26, 3776548.23	5.92978E-05	2.2774E-07	3.9E-08	1.5E-10	6.2E-10	5.7E-11	6.7E-10
762 UCART1	557570.26	3776548.23	557570.26, 3776548.23	5.53561E-05	2.19133E-07	3.7E-08	1.4E-10	5.8E-10	5.5E-11	6.3E-10
763 UCART1	557590.26	3776548.23	557590.26, 3776548.23	5.19559E-05	2.11901E-07	3.4E-08	1.4E-10	5.4E-10	5.3E-11	5.9E-10
764 UCART1	557610.26	3776548.23	557610.26, 3776548.23	4.87965E-05	2.04903E-07	3.2E-08	1.4E-10	5.1E-10	5.1E-11	5.6E-10
765 UCART1	557630.26	3776548.23	557630.26, 3776548.23	4.5948E-05	1.98466E-07	3.0E-08	1.3E-10	4.8E-10	5.0E-11	5.3E-10
766 UCART1	557650.26	3776548.23	557650.26, 3776548.23	4.34004E-05	1.92573E-07	2.9E-08	1.3E-10	4.5E-10	4.8E-11	5.0E-10
767 UCART1	557670.26	3776548.23	557670.26, 3776548.23	4.09632E-05	1.86344E-07	2.7E-08	1.2E-10	4.3E-10	4.6E-11	4.7E-10
768 UCART1	557690.26	3776548.23	557690.26, 3776548.23	3.87967E-05	1.80643E-07	2.6E-08	1.2E-10	4.0E-10	4.5E-11	4.5E-10
769 UCART1	557510.26	3776568.23	557510.26, 3776568.23	6.66297E-05	2.46782E-07	4.4E-08	1.6E-10	6.9E-10	6.2E-11	7.5E-10
770 UCART1	557530.26	3776568.23	557530.26, 3776568.23	6.22065E-05	2.37421E-07	4.1E-08	1.6E-10	6.5E-10	5.9E-11	7.1E-10
771 UCART1	557550.26	3776568.23	557550.26, 3776568.23	5.79539E-05	2.28013E-07	3.8E-08	1.5E-10	6.0E-10	5.7E-11	6.6E-10
772 UCART1	557570.26	3776568.23	557570.26, 3776568.23	5.40222E-05	2.19026E-07	3.6E-08	1.4E-10	5.6E-10	5.5E-11	6.2E-10
773 UCART1	557590.26	3776568.23	557590.26, 3776568.23	5.06521E-05	2.115E-07	3.4E-08	1.4E-10	5.3E-10	5.3E-11	5.8E-10
774 UCART1	557610.26	3776568.23	557610.26, 3776568.23	4.7583E-05	2.04376E-07	3.1E-08	1.4E-10	4.9E-10	5.1E-11	5.5E-10
775 UCART1	557630.26	3776568.23	557630.26, 3776568.23	4.48348E-05	1.97846E-07	3.0E-08	1.3E-10	4.7E-10	4.9E-11	5.2E-10
776 UCART1	557650.26	3776568.23	557650.26, 3776568.23	4.24276E-05	1.92129E-07	2.8E-08	1.3E-10	4.4E-10	4.8E-11	4.9E-10
777 UCART1	557670.26	3776568.23	557670.26, 3776568.23	4.01107E-05	1.85888E-07	2.7E-08	1.2E-10	4.2E-10	4.6E-11	4.6E-10
778 UCART1	557690.26	3776568.23	557690.26, 3776568.23	3.80144E-05	1.79907E-07	2.5E-08	1.2E-10	4.0E-10	4.5E-11	4.4E-10
779 UCART1	557510.26	3776588.23	557510.26, 3776588.23	6.5045E-05	2.46446E-07	4.3E-08	1.6E-10	6.8E-10	6.1E-11	7.4E-10
780 UCART1	557530.26	3776588.23	557530.26, 3776588.23	6.07222E-05	2.37283E-07	4.0E-08	1.6E-10	6.3E-10	5.9E-11	6.9E-10

Worker Risk

Discrete Receptor ID				Concentration [ug/m^3]		Worker Dose		Worker Risk		
	X	Y	X, Y	Construction Total	Operations Total	Construction	Operations	Construction	Operations	Total Risk
781	UCART1	557550.26	3776588.23	557550.26, 3776588.23	5.65798E-05	2.27797E-07	3.7E-08	1.5E-10	5.9E-10	5.7E-11	6.5E-10
782	UCART1	557570.26	3776588.23	557570.26, 3776588.23	5.27284E-05	2.18384E-07	3.5E-08	1.4E-10	5.5E-10	5.4E-11	6.0E-10
783	UCART1	557590.26	3776588.23	557590.26, 3776588.23	4.93784E-05	2.10231E-07	3.3E-08	1.4E-10	5.1E-10	5.2E-11	5.7E-10
784	UCART1	557610.26	3776588.23	557610.26, 3776588.23	4.64296E-05	2.03054E-07	3.1E-08	1.3E-10	4.8E-10	5.1E-11	5.3E-10
785	UCART1	557630.26	3776588.23	557630.26, 3776588.23	4.3882E-05	1.97043E-07	2.9E-08	1.3E-10	4.6E-10	4.9E-11	5.1E-10
786	UCART1	557650.26	3776588.23	557650.26, 3776588.23	4.1555E-05	1.91141E-07	2.7E-08	1.3E-10	4.3E-10	4.8E-11	4.8E-10
787	UCART1	557670.26	3776588.23	557670.26, 3776588.23	3.94086E-05	1.85237E-07	2.6E-08	1.2E-10	4.1E-10	4.6E-11	4.6E-10
788	UCART1	557690.26	3776588.23	557690.26, 3776588.23	3.74628E-05	1.79578E-07	2.5E-08	1.2E-10	3.9E-10	4.5E-11	4.3E-10
789	UCART1	557510.26	3776608.23	557510.26, 3776608.23	6.34704E-05	2.45501E-07	4.2E-08	1.6E-10	6.6E-10	6.1E-11	7.2E-10
790	UCART1	557530.26	3776608.23	557530.26, 3776608.23	5.92579E-05	2.36385E-07	3.9E-08	1.6E-10	6.2E-10	5.9E-11	6.8E-10
791	UCART1	557550.26	3776608.23	557550.26, 3776608.23	5.52359E-05	2.26681E-07	3.7E-08	1.5E-10	5.7E-10	5.7E-11	6.3E-10
792	UCART1	557570.26	3776608.23	557570.26, 3776608.23	5.16151E-05	2.17511E-07	3.4E-08	1.4E-10	5.4E-10	5.4E-11	5.9E-10
793	UCART1	557590.26	3776608.23	557590.26, 3776608.23	4.83654E-05	2.08879E-07	3.2E-08	1.4E-10	5.0E-10	5.2E-11	5.5E-10
794	UCART1	557610.26	3776608.23	557610.26, 3776608.23	4.5547E-05	2.01667E-07	3.0E-08	1.3E-10	4.7E-10	5.0E-11	5.2E-10
795	UCART1	557630.26	3776608.23	557630.26, 3776608.23	4.30796E-05	1.95642E-07	2.9E-08	1.3E-10	4.5E-10	4.9E-11	5.0E-10
796	UCART1	557650.26	3776608.23	557650.26, 3776608.23	4.08329E-05	1.89596E-07	2.7E-08	1.3E-10	4.2E-10	4.7E-11	4.7E-10
797	UCART1	557670.26	3776608.23	557670.26, 3776608.23	3.87667E-05	1.83535E-07	2.6E-08	1.2E-10	4.0E-10	4.6E-11	4.5E-10
798	UCART1	557690.26	3776608.23	557690.26, 3776608.23	3.68911E-05	1.77676E-07	2.4E-08	1.2E-10	3.8E-10	4.4E-11	4.3E-10
799	UCART1	557510.26	3776628.23	557510.26, 3776628.23	6.21065E-05	2.44244E-07	4.1E-08	1.6E-10	6.5E-10	6.1E-11	7.1E-10
800	UCART1	557530.26	3776628.23	557530.26, 3776628.23	5.79541E-05	2.34783E-07	3.8E-08	1.6E-10	6.0E-10	5.9E-11	6.6E-10
801	UCART1	557550.26	3776628.23	557550.26, 3776628.23	5.40825E-05	2.24737E-07	3.6E-08	1.5E-10	5.6E-10	5.6E-11	6.2E-10
802	UCART1	557570.26	3776628.23	557570.26, 3776628.23	5.07927E-05	2.17169E-07	3.4E-08	1.4E-10	5.3E-10	5.4E-11	5.8E-10
803	UCART1	557590.26	3776628.23	557590.26, 3776628.23	4.76032E-05	2.07398E-07	3.1E-08	1.4E-10	4.9E-10	5.2E-11	5.5E-10
804	UCART1	557610.26	3776628.23	557610.26, 3776628.23	4.48951E-05	2.001E-07	3.0E-08	1.3E-10	4.7E-10	5.0E-11	5.2E-10
805	UCART1	557630.26	3776628.23	557630.26, 3776628.23	4.24879E-05	1.93613E-07	2.8E-08	1.3E-10	4.4E-10	4.8E-11	4.9E-10
806	UCART1	557650.26	3776628.23	557650.26, 3776628.23	4.03414E-05	1.87918E-07	2.7E-08	1.2E-10	4.2E-10	4.7E-11	4.7E-10
807	UCART1	557670.26	3776628.23	557670.26, 3776628.23	3.83655E-05	1.81862E-07	2.5E-08	1.2E-10	4.0E-10	4.5E-11	4.4E-10
808	UCART1	557690.26	3776628.23	557690.26, 3776628.23	3.65801E-05	1.76184E-07	2.4E-08	1.2E-10	3.8E-10	4.4E-11	4.2E-10
809	UCART1	557510.26	3776648.23	557510.26, 3776648.23	6.09431E-05	2.42284E-07	4.0E-08	1.6E-10	6.3E-10	6.0E-11	6.9E-10
810	UCART1	557530.26	3776648.23	557530.26, 3776648.23	5.6891E-05	2.32114E-07	3.8E-08	1.5E-10	5.9E-10	5.8E-11	6.5E-10
811	UCART1	557550.26	3776648.23	557550.26, 3776648.23	5.32401E-05	2.22084E-07	3.5E-08	1.5E-10	5.5E-10	5.5E-11	6.1E-10
812	UCART1	557570.26	3776648.23	557570.26, 3776648.23	4.99803E-05	2.0778E-07	3.3E-08	1.4E-10	5.2E-10	5.2E-11	5.7E-10
813	UCART1	557590.26	3776648.23	557590.26, 3776648.23	4.71017E-05	2.00505E-07	3.1E-08	1.3E-10	4.9E-10	5.0E-11	5.4E-10
814	UCART1	557610.26	3776648.23	557610.26, 3776648.23	4.45039E-05	1.92378E-07	2.9E-08	1.3E-10	4.6E-10	4.8E-11	5.1E-10
815	UCART1	557630.26	3776648.23	557630.26, 3776648.23	4.21669E-05	1.87067E-07	2.8E-08	1.2E-10	4.4E-10	4.7E-11	4.9E-10
816	UCART1	557650.26	3776648.23	557650.26, 3776648.23	4.00706E-05	1.82655E-07	2.7E-08	1.2E-10	4.2E-10	4.6E-11	4.6E-10
817	UCART1	557670.26	3776648.23	557670.26, 3776648.23	3.81649E-05	1.76578E-07	2.5E-08	1.2E-10	4.0E-10	4.4E-11	4.4E-10
818	UCART1	557690.26	3776648.23	557690.26, 3776648.23	3.64297E-05	1.72035E-07	2.4E-08	1.1E-10	3.8E-10	4.3E-11	4.2E-10
819	UCART1	557510.26	3776668.23	557510.26, 3776668.23	6.01808E-05	2.30699E-07	4.0E-08	1.5E-10	6.3E-10	5.8E-11	6.8E-10
820	UCART1	557530.26	3776668.23	557530.26, 3776668.23	5.62992E-05	2.18809E-07	3.7E-08	1.4E-10	5.9E-10	5.5E-11	6.4E-10
821	UCART1	557550.26	3776668.23	557550.26, 3776668.23	5.28388E-05	2.07799E-07	3.5E-08	1.4E-10	5.5E-10	5.2E-11	6.0E-10
822	UCART1	557570.26	3776668.23	557570.26, 3776668.23	4.97395E-05	1.95681E-07	3.3E-08	1.3E-10	5.2E-10	4.9E-11	5.7E-10
823	UCART1	557590.26	3776668.23	557590.26, 3776668.23	4.69211E-05	1.91336E-07	3.1E-08	1.3E-10	4.9E-10	4.8E-11	5.4E-10
824	UCART1	557610.26	3776668.23	557610.26, 3776668.23	4.44236E-05	1.8057E-07	2.9E-08	1.2E-10	4.6E-10	4.5E-11	5.1E-10
825	UCART1	557630.26	3776668.23	557630.26, 3776668.23	4.21468E-05	1.75779E-07	2.8E-08	1.2E-10	4.4E-10	4.4E-11	4.8E-10
826	UCART1	557650.26	3776668.23	557650.26, 3776668.23	4.00705E-05	1.72382E-07	2.7E-08	1.1E-10	4.2E-10	4.3E-11	4.6E-10
827	UCART1	557670.26	3776668.23	557670.26, 3776668.23	3.82049E-05	1.6828E-07	2.5E-08	1.1E-10	4.0E-10	4.2E-11	4.4E-10
828	UCART1	557690.26	3776668.23	557690.26, 3776668.23	3.64998E-05	1.63576E-07	2.4E-08	1.1E-10	3.8E-10	4.1E-11	4.2E-10
829	UCART1	557510.26	3776688.23	557510.26, 3776688.23	5.98497E-05	2.1752E-07	4.0E-08	1.4E-10	6.2E-10	5.4E-11	6.8E-10
830	UCART1	557530.26	3776688.23	557530.26, 3776688.23	5.60885E-05	2.07468E-07	3.7E-08	1.4E-10	5.8E-10	5.2E-11	6.3E-10
831	UCART1	557550.26	3776688.23	557550.26, 3776688.23	5.27384E-05	1.95231E-07	3.5E-08	1.3E-10	5.5E-10	4.9E-11	6.0E-10
832	UCART1	557570.26	3776688.23	557570.26, 3776688.23	4.97194E-05	1.87619E-07	3.3E-08	1.2E-10	5.2E-10	4.7E-11	5.6E-10
833	UCART1	557590.26	3776688.23	557590.26, 3776688.23	4.69912E-05	1.80783E-07	3.1E-08	1.2E-10	4.9E-10	4.5E-11	5.3E-10
834	UCART1	557610.26	3776688.23	557610.26, 3776688.23	4.45338E-05	1.70865E-07	2.9E-08	1.1E-10	4.6E-10	4.3E-11	5.1E-10
835	UCART1	557630.26	3776688.23	557630.26, 3776688.23	4.22971E-05	1.6729E-07	2.8E-08	1.1E-10	4.4E-10	4.2E-11	4.8E-10
836	UCART1	557650.26	3776688.23	557650.26, 3776688.23	4.0251E-05	1.63212E-07	2.7E-08	1.1E-10	4.2E-10	4.1E-11	4.6E-10
837	UCART1	557670.26	3776688.23	557670.26, 3776688.23	3.84054E-05	1.57826E-07	2.5E-08	1.0E-10	4.0E-10	3.9E-11	4.4E-10
838	UCART1	557690.26	3776688.23	557690.26, 3776688.23	3.67304E-05	1.52481E-07	2.4E-08	1.0E-10	3.8E-10	3.8E-11	4.2E-10
839	UCART1	556172.49	3776517.81	556172.49, 3776517.81	2.68307E-05	7.93641E-08	1.8E-08	5.3E-11	2.8E-10	2.0E-11	3.0E-10
840	UCART1	556192.49	3776517.81	556192.49, 3776517.81	2.76532E-05	8.16687E-08	1.8E-08	5.4E-11	2.9E-10	2.0E-11	3.1E-10
841	UCART1	556212.49	3776517.81	556212.49, 3776517.81	2.83352E-05	8.24302E-08	1.9E-08	5.5E-11	2.9E-10	2.1E-11	3.2E-10
842	UCART1	556232.49	3776517.81	556232.49, 3776517.81	2.91477E-05	8.40169E-08	1.9E-08	5.6E-11	3.0E-10	2.1E-11	3.2E-10
843	UCART1	556252.49	3776517.81	556252.49, 3776517.81	3.00203E-05	8.57355E-08	2.0E-08	5.7E-11	3.1E-10	2.1E-11	3.3E-10
844	UCART1	556272.49	3776517.81	556272.49, 3776517.81	3.10735E-05	8.83562E-08	2.1E-08	5.8E-11	3.2E-10	2.2E-11	3.5E-10
845	UCART1	556292.49	3776517.81	556292.49, 3776517.81	3.21969E-05	9.08546E-08	2.1E-08	6.0E-11	3.3E-10	2.3E-11	3.6E-10
846	UCART1	556312.49	3776517.81	556312.49, 3776517.81	3.34005E-05	9.3102E-08	2.2E-08	6.2E-11	3.5E-10	2.3E-11	3.7E-10
847	UCART1	556332.49	3776517.81	556332.49, 3776517.81	3.48349E-05	9.6046E-08	2.3E-08	6.4E-11	3.6E-10	2.4E-11	3.9E-10
848	UCART1	556352.49	3776517.81	556352.49, 3776517.81	3.63394E-05	9.81409E-08	2.4E-08	6.5E-11	3.8E-10	2.4E-11	4.0E-10
849	UCART1	556372.49	3776517.81	556372.49, 3776517.81	3.7874E-05	9.91352E-08	2.5E-08	6.6E-11	3.9E-10	2.5E-11	4.2E-10
850	UCART1	556392.49	3776517.81	556392.49, 3776517.81	3.98298E-05	1.02287E-07	2.6E-08	6.8E-11	4.1E-10	2.6E-11	4.4E-10
851	UCART1	556412.49	3776517.81	556412.49, 3776517.81	4.17756E-05	1.04532E-07	2.8E-08	6.9E-11	4.3E-10	2.6E-11	4.6E-10
852	UCART1	556432.49	3776517.81	556432.49, 3776517.81	4.37415E-05	1.06474E-07	2.9E-08	7.0E-11	4.5E-10	2.7E-11	4.8E-10
853	UCART1	556452.49	3776517.81	556452.49, 3776517.81	4.56673E-05	1.08183E-07	3.0E-08	7.2E-11	4.7E-10	2.7E-11	5.0E-10
854	UCART1	556472.49	3776517.81	556472.49, 3776517.81	4.77635E-05	1.11705E-07	3.2E-08	7.4E-11	5.0E-10	2.8E-11	5.2E-10
855	UCART1	556492.49	3776517.81	556492.49, 3776517.81	4.97996E-05	1.14938E-07	3.3E-08	7.6E-11	5.2E-10	2.9E-11	5.5E-10
856	UCART1	556172.49	3776537.81	556172.49, 3776537.81	2.77334E-05	8.22538E-08	1.8E-08	5.4E-11	2.9E-10	2.1E-11	3.1E-10
857	UCART1	556192.49	3776537.81	556192.49, 3776537.81	2.85258E-05	8.39866E-08	1.9E-08	5.6E-11	3.0E-10	2.1E-11	3.2E-10
858	UCART1	556212.49	3776537.81	556212.49, 3776537.81	2.93683E-05	8.5882E-08	1.9E-08	5.7E-11	3.1E-10	2.1E-11	3.3E-10

Worker Risk

Discrete Receptor ID				Concentration [ug/m^3] Construction	Operations	Worker Dose		Worker Risk		
	X	Y	X, Y	Total	Total	Construction	Operations	Construction	Operations	Total Risk
859 UCART1	556232.49	3776537.81	556232.49, 3776537.81	3.02109E-05	8.74292E-08	2.0E-08	5.8E-11	3.1E-10	2.2E-11	3.4E-10
860 UCART1	556252.49	3776537.81	556252.49, 3776537.81	3.11136E-05	8.91483E-08	2.1E-08	5.9E-11	3.2E-10	2.2E-11	3.5E-10
861 UCART1	556272.49	3776537.81	556272.49, 3776537.81	3.20665E-05	9.07995E-08	2.1E-08	6.0E-11	3.3E-10	2.3E-11	3.6E-10
862 UCART1	556292.49	3776537.81	556292.49, 3776537.81	3.33002E-05	9.41688E-08	2.2E-08	6.2E-11	3.5E-10	2.3E-11	3.7E-10
863 UCART1	556312.49	3776537.81	556312.49, 3776537.81	3.45641E-05	9.68806E-08	2.3E-08	6.4E-11	3.6E-10	2.4E-11	3.8E-10
864 UCART1	556332.49	3776537.81	556332.49, 3776537.81	3.60285E-05	1.0007E-07	2.4E-08	6.6E-11	3.7E-10	2.5E-11	4.0E-10
865 UCART1	556352.49	3776537.81	556352.49, 3776537.81	3.75631E-05	1.02543E-07	2.5E-08	6.8E-11	3.9E-10	2.6E-11	4.2E-10
866 UCART1	556372.49	3776537.81	556372.49, 3776537.81	3.91679E-05	1.04125E-07	2.6E-08	6.9E-11	4.1E-10	2.6E-11	4.3E-10
867 UCART1	556392.49	3776537.81	556392.49, 3776537.81	4.09432E-05	1.05533E-07	2.7E-08	7.0E-11	4.3E-10	2.6E-11	4.5E-10
868 UCART1	556412.49	3776537.81	556412.49, 3776537.81	4.31097E-05	1.08787E-07	2.9E-08	7.2E-11	4.5E-10	2.7E-11	4.8E-10
869 UCART1	556432.49	3776537.81	556432.49, 3776537.81	4.52962E-05	1.11476E-07	3.0E-08	7.4E-11	4.7E-10	2.8E-11	5.0E-10
870 UCART1	556452.49	3776537.81	556452.49, 3776537.81	4.74125E-05	1.13196E-07	3.1E-08	7.5E-11	4.9E-10	2.8E-11	5.2E-10
871 UCART1	556472.49	3776537.81	556472.49, 3776537.81	4.97495E-05	1.17041E-07	3.3E-08	7.7E-11	5.2E-10	2.9E-11	5.5E-10
872 UCART1	556492.49	3776537.81	556492.49, 3776537.81	5.20464E-05	1.20791E-07	3.4E-08	8.0E-11	5.4E-10	3.0E-11	5.7E-10
873 UCART1	556332.49	3776557.81	556332.49, 3776557.81	3.74026E-05	1.04861E-07	2.5E-08	6.9E-11	3.9E-10	2.6E-11	4.2E-10
874 UCART1	556352.49	3776557.81	556352.49, 3776557.81	3.88269E-05	1.06534E-07	2.6E-08	7.0E-11	4.0E-10	2.7E-11	4.3E-10
875 UCART1	556372.49	3776557.81	556372.49, 3776557.81	4.06022E-05	1.09506E-07	2.7E-08	7.2E-11	4.2E-10	2.7E-11	4.5E-10
876 UCART1	556392.49	3776557.81	556392.49, 3776557.81	4.24578E-05	1.11422E-07	2.8E-08	7.4E-11	4.4E-10	2.8E-11	4.7E-10
877 UCART1	556412.49	3776557.81	556412.49, 3776557.81	4.46945E-05	1.14816E-07	3.0E-08	7.6E-11	4.6E-10	2.9E-11	4.9E-10
878 UCART1	556432.49	3776557.81	556432.49, 3776557.81	4.69613E-05	1.17185E-07	3.1E-08	7.8E-11	4.9E-10	2.9E-11	5.2E-10
879 UCART1	556452.49	3776557.81	556452.49, 3776557.81	4.92581E-05	1.19024E-07	3.3E-08	7.9E-11	5.1E-10	3.0E-11	5.4E-10
880 UCART1	556472.49	3776557.81	556472.49, 3776557.81	5.17757E-05	1.22564E-07	3.4E-08	8.1E-11	5.4E-10	3.1E-11	5.7E-10
881 UCART1	556492.49	3776557.81	556492.49, 3776557.81	5.43835E-05	1.26964E-07	3.6E-08	8.4E-11	5.7E-10	3.2E-11	6.0E-10
882 UCART1	556332.49	3776577.81	556332.49, 3776577.81	3.87667E-05	1.08796E-07	2.6E-08	7.2E-11	4.0E-10	2.7E-11	4.3E-10
883 UCART1	556352.49	3776577.81	556352.49, 3776577.81	4.03916E-05	1.12117E-07	2.7E-08	7.4E-11	4.2E-10	2.8E-11	4.5E-10
884 UCART1	556372.49	3776577.81	556372.49, 3776577.81	4.21569E-05	1.14973E-07	2.8E-08	7.6E-11	4.4E-10	2.9E-11	4.7E-10
885 UCART1	556392.49	3776577.81	556392.49, 3776577.81	4.4163E-05	1.181E-07	2.9E-08	7.8E-11	4.6E-10	2.9E-11	4.9E-10
886 UCART1	556412.49	3776577.81	556412.49, 3776577.81	4.64097E-05	1.21322E-07	3.1E-08	8.0E-11	4.8E-10	3.0E-11	5.1E-10
887 UCART1	556432.49	3776577.81	556432.49, 3776577.81	4.87266E-05	1.23347E-07	3.2E-08	8.2E-11	5.1E-10	3.1E-11	5.4E-10
888 UCART1	556452.49	3776577.81	556452.49, 3776577.81	5.12743E-05	1.26021E-07	3.4E-08	8.3E-11	5.3E-10	3.1E-11	5.6E-10
889 UCART1	556472.49	3776577.81	556472.49, 3776577.81	5.40225E-05	1.29685E-07	3.6E-08	8.6E-11	5.6E-10	3.2E-11	5.9E-10
890 UCART1	556492.49	3776577.81	556492.49, 3776577.81	5.68309E-05	1.33672E-07	3.8E-08	8.8E-11	5.9E-10	3.3E-11	6.2E-10
891 UCART1	556332.49	3776597.81	556332.49, 3776597.81	4.04418E-05	1.14533E-07	2.7E-08	7.6E-11	4.2E-10	2.9E-11	4.5E-10
892 UCART1	556352.49	3776597.81	556352.49, 3776597.81	4.20667E-05	1.17661E-07	2.8E-08	7.8E-11	4.4E-10	2.9E-11	4.7E-10
893 UCART1	556372.49	3776597.81	556372.49, 3776597.81	4.38521E-05	1.20653E-07	2.9E-08	8.0E-11	4.6E-10	3.0E-11	4.9E-10
894 UCART1	556392.49	3776597.81	556392.49, 3776597.81	4.57478E-05	1.22886E-07	3.0E-08	8.1E-11	4.8E-10	3.1E-11	5.1E-10
895 UCART1	556412.49	3776597.81	556412.49, 3776597.81	4.81851E-05	1.27419E-07	3.2E-08	8.4E-11	5.0E-10	3.2E-11	5.3E-10
896 UCART1	556432.49	3776597.81	556432.49, 3776597.81	5.06124E-05	1.29895E-07	3.3E-08	8.6E-11	5.3E-10	3.2E-11	5.6E-10
897 UCART1	556452.49	3776597.81	556452.49, 3776597.81	5.31901E-05	1.31842E-07	3.5E-08	8.7E-11	5.5E-10	3.3E-11	5.9E-10
898 UCART1	556472.49	3776597.81	556472.49, 3776597.81	5.61389E-05	1.35422E-07	3.7E-08	9.0E-11	5.8E-10	3.4E-11	6.2E-10
899 UCART1	556492.49	3776597.81	556492.49, 3776597.81	5.93786E-05	1.40848E-07	3.9E-08	9.3E-11	6.2E-10	3.5E-11	6.5E-10
900 UCART1	556252.49	3776617.81	556252.49, 3776617.81	3.66001E-05	1.08277E-07	2.4E-08	7.2E-11	3.8E-10	2.7E-11	4.1E-10
901 UCART1	556272.49	3776617.81	556272.49, 3776617.81	3.77837E-05	1.10365E-07	2.5E-08	7.3E-11	3.9E-10	2.8E-11	4.2E-10
902 UCART1	556292.49	3776617.81	556292.49, 3776617.81	3.91177E-05	1.13156E-07	2.6E-08	7.5E-11	4.1E-10	2.8E-11	4.3E-10
903 UCART1	556312.49	3776617.81	556312.49, 3776617.81	4.06223E-05	1.1668E-07	2.7E-08	7.7E-11	4.2E-10	2.9E-11	4.5E-10
904 UCART1	556332.49	3776617.81	556332.49, 3776617.81	4.20165E-05	1.18714E-07	2.8E-08	7.9E-11	4.4E-10	3.0E-11	4.7E-10
905 UCART1	556352.49	3776617.81	556352.49, 3776617.81	4.39022E-05	1.23579E-07	2.9E-08	8.2E-11	4.6E-10	3.1E-11	4.9E-10
906 UCART1	556372.49	3776617.81	556372.49, 3776617.81	4.58581E-05	1.27758E-07	3.0E-08	8.5E-11	4.8E-10	3.2E-11	5.1E-10
907 UCART1	556392.49	3776617.81	556392.49, 3776617.81	4.78341E-05	1.30577E-07	3.2E-08	8.6E-11	5.0E-10	3.3E-11	5.3E-10
908 UCART1	556412.49	3776617.81	556412.49, 3776617.81	5.02413E-05	1.34762E-07	3.3E-08	8.9E-11	5.2E-10	3.4E-11	5.6E-10
909 UCART1	556432.49	3776617.81	556432.49, 3776617.81	5.26887E-05	1.37113E-07	3.5E-08	9.1E-11	5.5E-10	3.4E-11	5.8E-10
910 UCART1	556452.49	3776617.81	556452.49, 3776617.81	5.55873E-05	1.40844E-07	3.7E-08	9.3E-11	5.8E-10	3.5E-11	6.1E-10
911 UCART1	556472.49	3776617.81	556472.49, 3776617.81	5.84659E-05	1.42571E-07	3.9E-08	9.4E-11	6.1E-10	3.6E-11	6.4E-10
912 UCART1	556492.49	3776617.81	556492.49, 3776617.81	6.20266E-05	1.48494E-07	4.1E-08	9.8E-11	6.4E-10	3.7E-11	6.8E-10
913 UCART1	556252.49	3776637.81	556252.49, 3776637.81	3.81548E-05	1.13433E-07	2.5E-08	7.5E-11	4.0E-10	2.8E-11	4.3E-10
914 UCART1	556272.49	3776637.81	556272.49, 3776637.81	3.96593E-05	1.17626E-07	2.6E-08	7.8E-11	4.1E-10	2.9E-11	4.4E-10
915 UCART1	556292.49	3776637.81	556292.49, 3776637.81	4.0883E-05	1.19109E-07	2.7E-08	7.9E-11	4.3E-10	3.0E-11	4.5E-10
916 UCART1	556312.49	3776637.81	556312.49, 3776637.81	4.23274E-05	1.21677E-07	2.8E-08	8.1E-11	4.4E-10	3.0E-11	4.7E-10
917 UCART1	556332.49	3776637.81	556332.49, 3776637.81	4.41028E-05	1.26182E-07	2.9E-08	8.3E-11	4.6E-10	3.1E-11	4.9E-10
918 UCART1	556352.49	3776637.81	556352.49, 3776637.81	4.58481E-05	1.29572E-07	3.0E-08	8.6E-11	4.8E-10	3.2E-11	5.1E-10
919 UCART1	556372.49	3776637.81	556372.49, 3776637.81	4.79444E-05	1.34528E-07	3.2E-08	8.9E-11	5.0E-10	3.4E-11	5.3E-10
920 UCART1	556392.49	3776637.81	556392.49, 3776637.81	4.99505E-05	1.37336E-07	3.3E-08	9.1E-11	5.2E-10	3.4E-11	5.5E-10
921 UCART1	556412.49	3776637.81	556412.49, 3776637.81	5.23577E-05	1.41399E-07	3.5E-08	9.4E-11	5.4E-10	3.5E-11	5.8E-10
922 UCART1	556432.49	3776637.81	556432.49, 3776637.81	5.49957E-05	1.45008E-07	3.6E-08	9.6E-11	5.7E-10	3.6E-11	6.1E-10
923 UCART1	556452.49	3776637.81	556452.49, 3776637.81	5.78843E-05	1.4813E-07	3.8E-08	9.8E-11	6.0E-10	3.7E-11	6.4E-10
924 UCART1	556472.49	3776637.81	556472.49, 3776637.81	6.11641E-05	1.51978E-07	4.0E-08	1.0E-10	6.4E-10	3.8E-11	6.7E-10
925 UCART1	556492.49	3776637.81	556492.49, 3776637.81	6.4805E-05	1.56742E-07	4.3E-08	1.0E-10	6.7E-10	3.9E-11	7.1E-10
926 UCART1	556252.49	3776657.81	556252.49, 3776657.81	3.99201E-05	1.19698E-07	2.6E-08	7.9E-11	4.2E-10	3.0E-11	4.4E-10
927 UCART1	556272.49	3776657.81	556272.49, 3776657.81	4.14346E-05	1.23546E-07	2.7E-08	8.2E-11	4.3E-10	3.1E-11	4.6E-10
928 UCART1	556292.49	3776657.81	556292.49, 3776657.81	4.29893E-05	1.27137E-07	2.8E-08	8.4E-11	4.5E-10	3.2E-11	4.8E-10
929 UCART1	556312.49	3776657.81	556312.49, 3776657.81	4.4203E-05	1.27455E-07	2.9E-08	8.4E-11	4.6E-10	3.2E-11	4.9E-10
930 UCART1	556332.49	3776657.81	556332.49, 3776657.81	4.6179E-05	1.32858E-07	3.1E-08	8.8E-11	4.8E-10	3.3E-11	5.1E-10
931 UCART1	556352.49	3776657.81	556352.49, 3776657.81	4.81349E-05	1.37347E-07	3.2E-08	9.1E-11	5.0E-10	3.4E-11	5.3E-10
932 UCART1	556372.49	3776657.81	556372.49, 3776657.81	5.02614E-05	1.42034E-07	3.3E-08	9.4E-11	5.2E-10	3.5E-11	5.6E-10
933 UCART1	556392.49	3776657.81	556392.49, 3776657.81	5.22273E-05	1.44237E-07	3.5E-08	9.5E-11	5.4E-10	3.6E-11	5.8E-10
934 UCART1	556412.49	3776657.81	556412.49, 3776657.81	5.46547E-05	1.48271E-07	3.6E-08	9.8E-11	5.7E-10	3.7E-11	6.1E-10
935 UCART1	556432.49	3776657.81	556432.49, 3776657.81	5.73829E-05	1.52319E-07	3.8E-08	1.0E-10	6.0E-10	3.8E-11	6.3E-10
936 UCART1	556452.49	3776657.81	556452.49, 3776657.81	6.04621E-05	1.56522E-07	4.0E-08	1.0E-10	6.3E-10	3.9E-11	6.7E-10

Worker Risk

Discrete Receptor ID					Concentration [ug/m^3] Construction Total	Concentration [ug/m^3] Operations Total	Worker Dose Construction	Worker Dose Operations	Worker Risk Construction	Worker Risk Operations	Worker Risk Total Risk
	X		Y	X, Y							
937	UCART1	556472.49	3776657.81	556472.49, 3776657.81	6.38824E-05	1.60617E-07	4.2E-08	1.1E-10	6.6E-10	4.0E-11	7.0E-10
938	UCART1	556492.49	3776657.81	556492.49, 3776657.81	6.77941E-05	1.65924E-07	4.5E-08	1.1E-10	7.0E-10	4.1E-11	7.5E-10
939	UCART1	556252.49	3776677.81	556252.49, 3776677.81	4.18057E-05	1.26302E-07	2.8E-08	8.4E-11	4.3E-10	3.2E-11	4.7E-10
940	UCART1	556272.49	3776677.81	556272.49, 3776677.81	4.30896E-05	1.28055E-07	2.9E-08	8.5E-11	4.5E-10	3.2E-11	4.8E-10
941	UCART1	556292.49	3776677.81	556292.49, 3776677.81	4.47346E-05	1.31829E-07	3.0E-08	8.7E-11	4.7E-10	3.3E-11	5.0E-10
942	UCART1	556312.49	3776677.81	556312.49, 3776677.81	4.64999E-05	1.35827E-07	3.1E-08	9.0E-11	4.8E-10	3.4E-11	5.2E-10
943	UCART1	556332.49	3776677.81	556332.49, 3776677.81	4.84258E-05	1.40194E-07	3.2E-08	9.3E-11	5.0E-10	3.5E-11	5.4E-10
944	UCART1	556352.49	3776677.81	556352.49, 3776677.81	5.05422E-05	1.45194E-07	3.3E-08	9.6E-11	5.3E-10	3.6E-11	5.6E-10
945	UCART1	556372.49	3776677.81	556372.49, 3776677.81	5.26787E-05	1.49353E-07	3.5E-08	9.9E-11	5.5E-10	3.7E-11	5.8E-10
946	UCART1	556392.49	3776677.81	556392.49, 3776677.81	5.48151E-05	1.52382E-07	3.6E-08	1.0E-10	5.7E-10	3.8E-11	6.1E-10
947	UCART1	556412.49	3776677.81	556412.49, 3776677.81	5.74832E-05	1.57704E-07	3.8E-08	1.0E-10	6.0E-10	3.9E-11	6.4E-10
948	UCART1	556432.49	3776677.81	556432.49, 3776677.81	6.00811E-05	1.60602E-07	4.0E-08	1.1E-10	6.2E-10	4.0E-11	6.6E-10
949	UCART1	556452.49	3776677.81	556452.49, 3776677.81	6.32305E-05	1.6495E-07	4.2E-08	1.1E-10	6.6E-10	4.1E-11	7.0E-10
950	UCART1	556472.49	3776677.81	556472.49, 3776677.81	6.69216E-05	1.70428E-07	4.4E-08	1.1E-10	7.0E-10	4.3E-11	7.4E-10
951	UCART1	556492.49	3776677.81	556492.49, 3776677.81	7.1044E-05	1.76128E-07	4.7E-08	1.2E-10	7.4E-10	4.4E-11	7.8E-10
952	UCART1	556252.49	3776697.81	556252.49, 3776697.81	4.38418E-05	1.33438E-07	2.9E-08	8.8E-11	4.6E-10	3.3E-11	4.9E-10
953	UCART1	556272.49	3776697.81	556272.49, 3776697.81	4.5216E-05	1.35388E-07	3.0E-08	9.0E-11	4.7E-10	3.4E-11	5.0E-10
954	UCART1	556372.49	3776697.81	556372.49, 3776697.81	5.53768E-05	1.57869E-07	3.7E-08	1.0E-10	5.8E-10	3.9E-11	6.2E-10
955	UCART1	556392.49	3776697.81	556392.49, 3776697.81	5.74631E-05	1.59829E-07	3.8E-08	1.1E-10	6.0E-10	4.0E-11	6.4E-10
956	UCART1	556412.49	3776697.81	556412.49, 3776697.81	6.02616E-05	1.65545E-07	4.0E-08	1.1E-10	6.3E-10	4.1E-11	6.7E-10
957	UCART1	556432.49	3776697.81	556432.49, 3776697.81	6.31002E-05	1.69671E-07	4.2E-08	1.1E-10	6.6E-10	4.2E-11	7.0E-10
958	UCART1	556452.49	3776697.81	556452.49, 3776697.81	6.62697E-05	1.73811E-07	4.4E-08	1.2E-10	6.9E-10	4.3E-11	7.3E-10
959	UCART1	556472.49	3776697.81	556472.49, 3776697.81	7.01414E-05	1.80076E-07	4.6E-08	1.2E-10	7.3E-10	4.5E-11	7.7E-10
960	UCART1	556492.49	3776697.81	556492.49, 3776697.81	7.45647E-05	1.87E-07	4.9E-08	1.2E-10	7.8E-10	4.7E-11	8.2E-10
961	UCART1	556252.49	3776717.81	556252.49, 3776717.81	4.55871E-05	1.37769E-07	3.0E-08	9.1E-11	4.7E-10	3.4E-11	5.1E-10
962	UCART1	556272.49	3776717.81	556272.49, 3776717.81	4.74126E-05	1.42596E-07	3.1E-08	9.4E-11	4.9E-10	3.6E-11	5.3E-10
963	UCART1	556372.49	3776717.81	556372.49, 3776717.81	5.82855E-05	1.67016E-07	3.9E-08	1.1E-10	6.1E-10	4.2E-11	6.5E-10
964	UCART1	556392.49	3776717.81	556392.49, 3776717.81	6.04421E-05	1.68619E-07	4.0E-08	1.1E-10	6.3E-10	4.2E-11	6.7E-10
965	UCART1	556412.49	3776717.81	556412.49, 3776717.81	6.34512E-05	1.75031E-07	4.2E-08	1.2E-10	6.6E-10	4.4E-11	7.0E-10
966	UCART1	556432.49	3776717.81	556432.49, 3776717.81	6.64403E-05	1.79569E-07	4.4E-08	1.2E-10	6.9E-10	4.5E-11	7.4E-10
967	UCART1	556452.49	3776717.81	556452.49, 3776717.81	6.97503E-05	1.84151E-07	4.6E-08	1.2E-10	7.3E-10	4.6E-11	7.7E-10
968	UCART1	556472.49	3776717.81	556472.49, 3776717.81	7.41335E-05	1.93418E-07	4.9E-08	1.3E-10	7.7E-10	4.8E-11	8.2E-10
969	UCART1	556492.49	3776717.81	556492.49, 3776717.81	7.84364E-05	1.98724E-07	5.2E-08	1.3E-10	8.2E-10	5.0E-11	8.7E-10
970	1	556267.4	3776875.81	556267.4, 3776875.81	6.81854E-05	2.2606E-07	4.5E-08	1.5E-10	7.1E-10	5.6E-11	7.7E-10
971	1	556239.03	3776853.02	556239.03, 3776853.02	5.99505E-05	1.97656E-07	4.0E-08	1.3E-10	6.2E-10	4.9E-11	6.7E-10
972	1	556178.76	3776751.21	556178.76, 3776751.21	4.36412E-05	1.42467E-07	2.9E-08	9.4E-11	4.5E-10	3.6E-11	4.9E-10
973	1	556154.45	3776774.51	556154.45, 3776774.51	4.29291E-05	1.42323E-07	2.8E-08	9.4E-11	4.5E-10	3.6E-11	4.8E-10
974	1	556119.5	3776705.11	556119.5, 3776705.11	3.58677E-05	1.17015E-07	2.4E-08	7.7E-11	3.7E-10	2.9E-11	4.0E-10
975	1	556146.51	3777267.93	556146.51, 3777267.93	0.00013241	3.6845E-07	8.8E-08	2.4E-10	1.4E-09	9.2E-11	1.5E-09
976	1	556151	3777234.88	556151, 3777234.88	0.00012234	3.65904E-07	8.1E-08	2.4E-10	1.3E-09	9.1E-11	1.4E-09
977	1	556144.93	3777179.58	556144.93, 3777179.58	0.000101517	3.41078E-07	6.7E-08	2.3E-10	1.1E-09	8.5E-11	1.1E-09
978	1	556205.18	3777236.46	556205.18, 3777236.46	0.000149713	4.32433E-07	9.9E-08	2.9E-10	1.6E-09	1.1E-10	1.7E-09
979	1	556218	3777200.04	556218, 3777200.04	0.000139292	4.31511E-07	9.2E-08	2.9E-10	1.4E-09	1.1E-10	1.6E-09
980	1	556774.37	3777347.57	556774.37, 3777347.57	0.001441067	3.71088E-06	9.5E-07	2.5E-09	1.5E-08	9.3E-10	1.6E-08

Worker Risk - Fueling

Discrete Receptor ID		X	Y	X, Y	Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
1	1	556521.71	3777341.57	556521.71, 3777341.57	2.39E-03	1.6E-06	5.4E-08
2	1	556539.9	3777344.94	556539.9, 3777344.94	2.60E-03	1.7E-06	5.9E-08
3	1	556591.78	3777345.39	556591.78, 3777345.39	3.44E-03	2.3E-06	7.8E-08
4	1	556630.62	3777349.66	556630.62, 3777349.66	4.34E-03	2.9E-06	9.9E-08
5	1	556684.29	3777349.43	556684.29, 3777349.43	6.27E-03	4.1E-06	1.4E-07
6	1	556905.58	3777351.19	556905.58, 3777351.19	7.04E-03	4.7E-06	1.6E-07
7	1	556920.93	3777350.82	556920.93, 3777350.82	6.35E-03	4.2E-06	1.4E-07
8	1	556942.87	3777350.09	556942.87, 3777350.09	5.31E-03	3.5E-06	1.2E-07
9	1	556996.26	3777348.26	556996.26, 3777348.26	3.69E-03	2.4E-06	8.4E-08
10	1	557096.81	3777357.77	557096.81, 3777357.77	2.37E-03	1.6E-06	5.4E-08
11	1	557115.83	3777363.62	557115.83, 3777363.62	2.16E-03	1.4E-06	4.9E-08
12	1	557129.36	3777361.43	557129.36, 3777361.43	2.10E-03	1.4E-06	4.8E-08
13	1	557230.65	3777363.99	557230.65, 3777363.99	1.55E-03	1.0E-06	3.5E-08
14	1	556466.22	3776816.07	556466.22, 3776816.07	3.20E-04	2.1E-07	7.3E-09
15	1	556407.87	3776826.19	556407.87, 3776826.19	2.98E-04	2.0E-07	6.8E-09
16	1	556381.07	3776807.14	556381.07, 3776807.14	2.73E-04	1.8E-07	6.2E-09
17	1	556404.29	3776771.52	556404.29, 3776771.52	2.50E-04	1.7E-07	5.7E-09
18	1	556465.21	3776739.51	556465.21, 3776739.51	2.71E-04	1.8E-07	6.1E-09
19	1	556396.1	3776739.93	556396.1, 3776739.93	2.32E-04	1.5E-07	5.3E-09
20	1	556323.99	3777265.43	556323.99, 3777265.43	1.00E-03	6.6E-07	2.3E-08
21	1	556330.6	3777233.99	556330.6, 3777233.99	9.59E-04	6.3E-07	2.2E-08
22	1	556321.08	3777200.43	556321.08, 3777200.43	8.62E-04	5.7E-07	2.0E-08
23	1	556275.11	3777267.81	556275.11, 3777267.81	8.47E-04	5.6E-07	1.9E-08
24	1	556278.28	3777233.46	556278.28, 3777233.46	8.02E-04	5.3E-07	1.8E-08
25	UCART1	556509.4	3777373.38	556509.4, 3777373.38	2.16E-03	1.4E-06	4.9E-08
26	UCART1	556529.4	3777373.38	556529.4, 3777373.38	2.36E-03	1.6E-06	5.4E-08
27	UCART1	556549.4	3777373.38	556549.4, 3777373.38	2.60E-03	1.7E-06	5.9E-08
28	UCART1	556569.4	3777373.38	556569.4, 3777373.38	2.88E-03	1.9E-06	6.5E-08
29	UCART1	556589.4	3777373.38	556589.4, 3777373.38	3.22E-03	2.1E-06	7.3E-08
30	UCART1	556609.4	3777373.38	556609.4, 3777373.38	3.60E-03	2.4E-06	8.2E-08
31	UCART1	556629.4	3777373.38	556629.4, 3777373.38	4.05E-03	2.7E-06	9.2E-08
32	UCART1	556649.4	3777373.38	556649.4, 3777373.38	4.59E-03	3.0E-06	1.0E-07
33	UCART1	556669.4	3777373.38	556669.4, 3777373.38	5.21E-03	3.4E-06	1.2E-07
34	UCART1	556689.4	3777373.38	556689.4, 3777373.38	5.85E-03	3.9E-06	1.3E-07
35	UCART1	556709.4	3777373.38	556709.4, 3777373.38	6.27E-03	4.1E-06	1.4E-07
36	UCART1	556729.4	3777373.38	556729.4, 3777373.38	6.29E-03	4.2E-06	1.4E-07
37	UCART1	556749.4	3777373.38	556749.4, 3777373.38	6.03E-03	4.0E-06	1.4E-07
38	UCART1	556769.4	3777373.38	556769.4, 3777373.38	5.79E-03	3.8E-06	1.3E-07
39	UCART1	556789.4	3777373.38	556789.4, 3777373.38	5.78E-03	3.8E-06	1.3E-07
40	UCART1	556809.4	3777373.38	556809.4, 3777373.38	5.95E-03	3.9E-06	1.4E-07
41	UCART1	556829.4	3777373.38	556829.4, 3777373.38	6.15E-03	4.1E-06	1.4E-07
42	UCART1	556849.4	3777373.38	556849.4, 3777373.38	6.29E-03	4.2E-06	1.4E-07
43	UCART1	556869.4	3777373.38	556869.4, 3777373.38	6.33E-03	4.2E-06	1.4E-07
44	UCART1	556889.4	3777373.38	556889.4, 3777373.38	6.14E-03	4.1E-06	1.4E-07
45	UCART1	556909.4	3777373.38	556909.4, 3777373.38	5.72E-03	3.8E-06	1.3E-07
46	UCART1	556929.4	3777373.38	556929.4, 3777373.38	5.10E-03	3.4E-06	1.2E-07
47	UCART1	556949.4	3777373.38	556949.4, 3777373.38	4.40E-03	2.9E-06	1.0E-07
48	UCART1	556969.4	3777373.38	556969.4, 3777373.38	3.77E-03	2.5E-06	8.5E-08
49	UCART1	556989.4	3777373.38	556989.4, 3777373.38	3.28E-03	2.2E-06	7.4E-08
50	UCART1	557009.4	3777373.38	557009.4, 3777373.38	2.94E-03	1.9E-06	6.7E-08
51	UCART1	557029.4	3777373.38	557029.4, 3777373.38	2.71E-03	1.8E-06	6.1E-08
52	UCART1	557049.4	3777373.38	557049.4, 3777373.38	2.52E-03	1.7E-06	5.7E-08
53	UCART1	557069.4	3777373.38	557069.4, 3777373.38	2.35E-03	1.6E-06	5.3E-08
54	UCART1	557089.4	3777373.38	557089.4, 3777373.38	2.20E-03	1.5E-06	5.0E-08
55	UCART1	557109.4	3777373.38	557109.4, 3777373.38	2.08E-03	1.4E-06	4.7E-08
56	UCART1	557129.4	3777373.38	557129.4, 3777373.38	1.96E-03	1.3E-06	4.5E-08
57	UCART1	557149.4	3777373.38	557149.4, 3777373.38	1.86E-03	1.2E-06	4.2E-08
58	UCART1	557169.4	3777373.38	557169.4, 3777373.38	1.76E-03	1.2E-06	4.0E-08

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations	Worker Dose	Worker Risk
	X	Y	X, Y	Total	Operations	Operations
59	UCART1	557189.4	3777373.38 557189.4, 3777373.38	1.68E-03	1.1E-06	3.8E-08
60	UCART1	557209.4	3777373.38 557209.4, 3777373.38	1.59E-03	1.1E-06	3.6E-08
61	UCART1	557229.4	3777373.38 557229.4, 3777373.38	1.51E-03	1.0E-06	3.4E-08
62	UCART1	557249.4	3777373.38 557249.4, 3777373.38	1.42E-03	9.4E-07	3.2E-08
63	UCART1	557269.4	3777373.38 557269.4, 3777373.38	1.34E-03	8.9E-07	3.1E-08
64	UCART1	557289.4	3777373.38 557289.4, 3777373.38	1.27E-03	8.4E-07	2.9E-08
65	UCART1	557309.4	3777373.38 557309.4, 3777373.38	1.21E-03	8.0E-07	2.7E-08
66	UCART1	557329.4	3777373.38 557329.4, 3777373.38	1.14E-03	7.5E-07	2.6E-08
67	UCART1	557349.4	3777373.38 557349.4, 3777373.38	1.08E-03	7.2E-07	2.5E-08
68	UCART1	557369.4	3777373.38 557369.4, 3777373.38	1.02E-03	6.8E-07	2.3E-08
69	UCART1	557389.4	3777373.38 557389.4, 3777373.38	9.71E-04	6.4E-07	2.2E-08
70	UCART1	557409.4	3777373.38 557409.4, 3777373.38	9.22E-04	6.1E-07	2.1E-08
71	UCART1	557429.4	3777373.38 557429.4, 3777373.38	8.75E-04	5.8E-07	2.0E-08
72	UCART1	557449.4	3777373.38 557449.4, 3777373.38	8.33E-04	5.5E-07	1.9E-08
73	UCART1	557469.4	3777373.38 557469.4, 3777373.38	7.93E-04	5.2E-07	1.8E-08
74	UCART1	557489.4	3777373.38 557489.4, 3777373.38	7.52E-04	5.0E-07	1.7E-08
75	UCART1	556509.4	3777393.38 556509.4, 3777393.38	2.10E-03	1.4E-06	4.8E-08
76	UCART1	556529.4	3777393.38 556529.4, 3777393.38	2.29E-03	1.5E-06	5.2E-08
77	UCART1	556549.4	3777393.38 556549.4, 3777393.38	2.52E-03	1.7E-06	5.7E-08
78	UCART1	556569.4	3777393.38 556569.4, 3777393.38	2.78E-03	1.8E-06	6.3E-08
79	UCART1	556589.4	3777393.38 556589.4, 3777393.38	3.09E-03	2.0E-06	7.0E-08
80	UCART1	556609.4	3777393.38 556609.4, 3777393.38	3.44E-03	2.3E-06	7.8E-08
81	UCART1	556629.4	3777393.38 556629.4, 3777393.38	3.87E-03	2.6E-06	8.8E-08
82	UCART1	556649.4	3777393.38 556649.4, 3777393.38	4.34E-03	2.9E-06	9.8E-08
83	UCART1	556669.4	3777393.38 556669.4, 3777393.38	4.82E-03	3.2E-06	1.1E-07
84	UCART1	556689.4	3777393.38 556689.4, 3777393.38	5.18E-03	3.4E-06	1.2E-07
85	UCART1	556709.4	3777393.38 556709.4, 3777393.38	5.30E-03	3.5E-06	1.2E-07
86	UCART1	556729.4	3777393.38 556729.4, 3777393.38	5.13E-03	3.4E-06	1.2E-07
87	UCART1	556749.4	3777393.38 556749.4, 3777393.38	4.89E-03	3.2E-06	1.1E-07
88	UCART1	556769.4	3777393.38 556769.4, 3777393.38	4.78E-03	3.2E-06	1.1E-07
89	UCART1	556789.4	3777393.38 556789.4, 3777393.38	4.84E-03	3.2E-06	1.1E-07
90	UCART1	556809.4	3777393.38 556809.4, 3777393.38	4.97E-03	3.3E-06	1.1E-07
91	UCART1	556829.4	3777393.38 556829.4, 3777393.38	5.12E-03	3.4E-06	1.2E-07
92	UCART1	556849.4	3777393.38 556849.4, 3777393.38	5.21E-03	3.4E-06	1.2E-07
93	UCART1	556869.4	3777393.38 556869.4, 3777393.38	5.24E-03	3.5E-06	1.2E-07
94	UCART1	556889.4	3777393.38 556889.4, 3777393.38	5.15E-03	3.4E-06	1.2E-07
95	UCART1	556909.4	3777393.38 556909.4, 3777393.38	4.88E-03	3.2E-06	1.1E-07
96	UCART1	556929.4	3777393.38 556929.4, 3777393.38	4.48E-03	3.0E-06	1.0E-07
97	UCART1	556949.4	3777393.38 556949.4, 3777393.38	3.95E-03	2.6E-06	9.0E-08
98	UCART1	556969.4	3777393.38 556969.4, 3777393.38	3.43E-03	2.3E-06	7.8E-08
99	UCART1	556989.4	3777393.38 556989.4, 3777393.38	2.98E-03	2.0E-06	6.8E-08
100	UCART1	557009.4	3777393.38 557009.4, 3777393.38	2.66E-03	1.8E-06	6.0E-08
101	UCART1	557029.4	3777393.38 557029.4, 3777393.38	2.42E-03	1.6E-06	5.5E-08
102	UCART1	557049.4	3777393.38 557049.4, 3777393.38	2.24E-03	1.5E-06	5.1E-08
103	UCART1	557069.4	3777393.38 557069.4, 3777393.38	2.10E-03	1.4E-06	4.8E-08
104	UCART1	557089.4	3777393.38 557089.4, 3777393.38	1.98E-03	1.3E-06	4.5E-08
105	UCART1	557109.4	3777393.38 557109.4, 3777393.38	1.87E-03	1.2E-06	4.2E-08
106	UCART1	557129.4	3777393.38 557129.4, 3777393.38	1.76E-03	1.2E-06	4.0E-08
107	UCART1	557149.4	3777393.38 557149.4, 3777393.38	1.68E-03	1.1E-06	3.8E-08
108	UCART1	557169.4	3777393.38 557169.4, 3777393.38	1.60E-03	1.1E-06	3.6E-08
109	UCART1	557189.4	3777393.38 557189.4, 3777393.38	1.52E-03	1.0E-06	3.5E-08
110	UCART1	557209.4	3777393.38 557209.4, 3777393.38	1.46E-03	9.6E-07	3.3E-08
111	UCART1	557229.4	3777393.38 557229.4, 3777393.38	1.39E-03	9.2E-07	3.2E-08
112	UCART1	557249.4	3777393.38 557249.4, 3777393.38	1.33E-03	8.8E-07	3.0E-08
113	UCART1	557269.4	3777393.38 557269.4, 3777393.38	1.26E-03	8.4E-07	2.9E-08
114	UCART1	557289.4	3777393.38 557289.4, 3777393.38	1.20E-03	7.9E-07	2.7E-08
115	UCART1	557309.4	3777393.38 557309.4, 3777393.38	1.14E-03	7.5E-07	2.6E-08
116	UCART1	557329.4	3777393.38 557329.4, 3777393.38	1.09E-03	7.2E-07	2.5E-08

Worker Risk - Fueling

Discrete Receptor ID	X	Y	X, Y	Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
117 UCART1	557349.4	3777393.38	557349.4, 3777393.38	1.03E-03	6.8E-07	2.3E-08
118 UCART1	557369.4	3777393.38	557369.4, 3777393.38	9.83E-04	6.5E-07	2.2E-08
119 UCART1	557389.4	3777393.38	557389.4, 3777393.38	9.36E-04	6.2E-07	2.1E-08
120 UCART1	557409.4	3777393.38	557409.4, 3777393.38	8.90E-04	5.9E-07	2.0E-08
121 UCART1	557429.4	3777393.38	557429.4, 3777393.38	8.48E-04	5.6E-07	1.9E-08
122 UCART1	557449.4	3777393.38	557449.4, 3777393.38	8.09E-04	5.4E-07	1.8E-08
123 UCART1	557469.4	3777393.38	557469.4, 3777393.38	7.71E-04	5.1E-07	1.7E-08
124 UCART1	557489.4	3777393.38	557489.4, 3777393.38	7.33E-04	4.8E-07	1.7E-08
125 UCART1	556509.4	3777413.38	556509.4, 3777413.38	2.04E-03	1.3E-06	4.6E-08
126 UCART1	556529.4	3777413.38	556529.4, 3777413.38	2.23E-03	1.5E-06	5.1E-08
127 UCART1	556549.4	3777413.38	556549.4, 3777413.38	2.44E-03	1.6E-06	5.5E-08
128 UCART1	556569.4	3777413.38	556569.4, 3777413.38	2.69E-03	1.8E-06	6.1E-08
129 UCART1	556589.4	3777413.38	556589.4, 3777413.38	2.97E-03	2.0E-06	6.7E-08
130 UCART1	556609.4	3777413.38	556609.4, 3777413.38	3.30E-03	2.2E-06	7.5E-08
131 UCART1	556629.4	3777413.38	556629.4, 3777413.38	3.69E-03	2.4E-06	8.4E-08
132 UCART1	556649.4	3777413.38	556649.4, 3777413.38	4.07E-03	2.7E-06	9.2E-08
133 UCART1	556669.4	3777413.38	556669.4, 3777413.38	4.39E-03	2.9E-06	9.9E-08
134 UCART1	556689.4	3777413.38	556689.4, 3777413.38	4.52E-03	3.0E-06	1.0E-07
135 UCART1	556709.4	3777413.38	556709.4, 3777413.38	4.44E-03	2.9E-06	1.0E-07
136 UCART1	556729.4	3777413.38	556729.4, 3777413.38	4.22E-03	2.8E-06	9.6E-08
137 UCART1	556749.4	3777413.38	556749.4, 3777413.38	4.06E-03	2.7E-06	9.2E-08
138 UCART1	556769.4	3777413.38	556769.4, 3777413.38	4.06E-03	2.7E-06	9.2E-08
139 UCART1	556789.4	3777413.38	556789.4, 3777413.38	4.13E-03	2.7E-06	9.4E-08
140 UCART1	556809.4	3777413.38	556809.4, 3777413.38	4.24E-03	2.8E-06	9.6E-08
141 UCART1	556829.4	3777413.38	556829.4, 3777413.38	4.34E-03	2.9E-06	9.8E-08
142 UCART1	556849.4	3777413.38	556849.4, 3777413.38	4.42E-03	2.9E-06	1.0E-07
143 UCART1	556869.4	3777413.38	556869.4, 3777413.38	4.46E-03	3.0E-06	1.0E-07
144 UCART1	556889.4	3777413.38	556889.4, 3777413.38	4.39E-03	2.9E-06	1.0E-07
145 UCART1	556909.4	3777413.38	556909.4, 3777413.38	4.22E-03	2.8E-06	9.6E-08
146 UCART1	556929.4	3777413.38	556929.4, 3777413.38	3.97E-03	2.6E-06	9.0E-08
147 UCART1	556949.4	3777413.38	556949.4, 3777413.38	3.57E-03	2.4E-06	8.1E-08
148 UCART1	556969.4	3777413.38	556969.4, 3777413.38	3.14E-03	2.1E-06	7.1E-08
149 UCART1	556989.4	3777413.38	556989.4, 3777413.38	2.74E-03	1.8E-06	6.2E-08
150 UCART1	557009.4	3777413.38	557009.4, 3777413.38	2.43E-03	1.6E-06	5.5E-08
151 UCART1	557029.4	3777413.38	557029.4, 3777413.38	2.19E-03	1.5E-06	5.0E-08
152 UCART1	557049.4	3777413.38	557049.4, 3777413.38	2.03E-03	1.3E-06	4.6E-08
153 UCART1	557069.4	3777413.38	557069.4, 3777413.38	1.90E-03	1.3E-06	4.3E-08
154 UCART1	557089.4	3777413.38	557089.4, 3777413.38	1.78E-03	1.2E-06	4.0E-08
155 UCART1	557109.4	3777413.38	557109.4, 3777413.38	1.69E-03	1.1E-06	3.8E-08
156 UCART1	557129.4	3777413.38	557129.4, 3777413.38	1.60E-03	1.1E-06	3.6E-08
157 UCART1	557149.4	3777413.38	557149.4, 3777413.38	1.52E-03	1.0E-06	3.5E-08
158 UCART1	557169.4	3777413.38	557169.4, 3777413.38	1.45E-03	9.6E-07	3.3E-08
159 UCART1	557189.4	3777413.38	557189.4, 3777413.38	1.39E-03	9.2E-07	3.2E-08
160 UCART1	557209.4	3777413.38	557209.4, 3777413.38	1.33E-03	8.8E-07	3.0E-08
161 UCART1	557229.4	3777413.38	557229.4, 3777413.38	1.28E-03	8.5E-07	2.9E-08
162 UCART1	557249.4	3777413.38	557249.4, 3777413.38	1.23E-03	8.1E-07	2.8E-08
163 UCART1	557269.4	3777413.38	557269.4, 3777413.38	1.18E-03	7.8E-07	2.7E-08
164 UCART1	557289.4	3777413.38	557289.4, 3777413.38	1.13E-03	7.4E-07	2.6E-08
165 UCART1	557309.4	3777413.38	557309.4, 3777413.38	1.08E-03	7.1E-07	2.4E-08
166 UCART1	557329.4	3777413.38	557329.4, 3777413.38	1.03E-03	6.8E-07	2.3E-08
167 UCART1	557349.4	3777413.38	557349.4, 3777413.38	9.84E-04	6.5E-07	2.2E-08
168 UCART1	557369.4	3777413.38	557369.4, 3777413.38	9.38E-04	6.2E-07	2.1E-08
169 UCART1	557389.4	3777413.38	557389.4, 3777413.38	8.98E-04	5.9E-07	2.0E-08
170 UCART1	557409.4	3777413.38	557409.4, 3777413.38	8.59E-04	5.7E-07	1.9E-08
171 UCART1	557429.4	3777413.38	557429.4, 3777413.38	8.18E-04	5.4E-07	1.9E-08
172 UCART1	557449.4	3777413.38	557449.4, 3777413.38	7.82E-04	5.2E-07	1.8E-08
173 UCART1	557469.4	3777413.38	557469.4, 3777413.38	7.49E-04	5.0E-07	1.7E-08
174 UCART1	557489.4	3777413.38	557489.4, 3777413.38	7.14E-04	4.7E-07	1.6E-08

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations	Worker Dose	Worker Risk
	X	Y	X, Y	Total	Operations	Operations
175 UCART1	556509.4	3777433.38	556509.4, 3777433.38	1.98E-03	1.3E-06	4.5E-08
176 UCART1	556529.4	3777433.38	556529.4, 3777433.38	2.16E-03	1.4E-06	4.9E-08
177 UCART1	556549.4	3777433.38	556549.4, 3777433.38	2.36E-03	1.6E-06	5.3E-08
178 UCART1	556569.4	3777433.38	556569.4, 3777433.38	2.58E-03	1.7E-06	5.9E-08
179 UCART1	556589.4	3777433.38	556589.4, 3777433.38	2.86E-03	1.9E-06	6.5E-08
180 UCART1	556609.4	3777433.38	556609.4, 3777433.38	3.17E-03	2.1E-06	7.2E-08
181 UCART1	556629.4	3777433.38	556629.4, 3777433.38	3.49E-03	2.3E-06	7.9E-08
182 UCART1	556649.4	3777433.38	556649.4, 3777433.38	3.76E-03	2.5E-06	8.5E-08
183 UCART1	556669.4	3777433.38	556669.4, 3777433.38	3.91E-03	2.6E-06	8.9E-08
184 UCART1	556689.4	3777433.38	556689.4, 3777433.38	3.90E-03	2.6E-06	8.8E-08
185 UCART1	556709.4	3777433.38	556709.4, 3777433.38	3.72E-03	2.5E-06	8.4E-08
186 UCART1	556729.4	3777433.38	556729.4, 3777433.38	3.55E-03	2.3E-06	8.1E-08
187 UCART1	556749.4	3777433.38	556749.4, 3777433.38	3.47E-03	2.3E-06	7.9E-08
188 UCART1	556769.4	3777433.38	556769.4, 3777433.38	3.51E-03	2.3E-06	8.0E-08
189 UCART1	556789.4	3777433.38	556789.4, 3777433.38	3.57E-03	2.4E-06	8.1E-08
190 UCART1	556809.4	3777433.38	556809.4, 3777433.38	3.65E-03	2.4E-06	8.3E-08
191 UCART1	556829.4	3777433.38	556829.4, 3777433.38	3.73E-03	2.5E-06	8.5E-08
192 UCART1	556849.4	3777433.38	556849.4, 3777433.38	3.78E-03	2.5E-06	8.6E-08
193 UCART1	556869.4	3777433.38	556869.4, 3777433.38	3.82E-03	2.5E-06	8.7E-08
194 UCART1	556889.4	3777433.38	556889.4, 3777433.38	3.79E-03	2.5E-06	8.6E-08
195 UCART1	556909.4	3777433.38	556909.4, 3777433.38	3.68E-03	2.4E-06	8.3E-08
196 UCART1	556929.4	3777433.38	556929.4, 3777433.38	3.49E-03	2.3E-06	7.9E-08
197 UCART1	556949.4	3777433.38	556949.4, 3777433.38	3.22E-03	2.1E-06	7.3E-08
198 UCART1	556969.4	3777433.38	556969.4, 3777433.38	2.88E-03	1.9E-06	6.5E-08
199 UCART1	556989.4	3777433.38	556989.4, 3777433.38	2.54E-03	1.7E-06	5.8E-08
200 UCART1	557009.4	3777433.38	557009.4, 3777433.38	2.25E-03	1.5E-06	5.1E-08
201 UCART1	557029.4	3777433.38	557029.4, 3777433.38	2.02E-03	1.3E-06	4.6E-08
202 UCART1	557049.4	3777433.38	557049.4, 3777433.38	1.86E-03	1.2E-06	4.2E-08
203 UCART1	557069.4	3777433.38	557069.4, 3777433.38	1.73E-03	1.1E-06	3.9E-08
204 UCART1	557089.4	3777433.38	557089.4, 3777433.38	1.63E-03	1.1E-06	3.7E-08
205 UCART1	557109.4	3777433.38	557109.4, 3777433.38	1.54E-03	1.0E-06	3.5E-08
206 UCART1	557129.4	3777433.38	557129.4, 3777433.38	1.46E-03	9.7E-07	3.3E-08
207 UCART1	557149.4	3777433.38	557149.4, 3777433.38	1.39E-03	9.2E-07	3.2E-08
208 UCART1	557169.4	3777433.38	557169.4, 3777433.38	1.32E-03	8.8E-07	3.0E-08
209 UCART1	557189.4	3777433.38	557189.4, 3777433.38	1.27E-03	8.4E-07	2.9E-08
210 UCART1	557209.4	3777433.38	557209.4, 3777433.38	1.22E-03	8.1E-07	2.8E-08
211 UCART1	557229.4	3777433.38	557229.4, 3777433.38	1.17E-03	7.8E-07	2.7E-08
212 UCART1	557249.4	3777433.38	557249.4, 3777433.38	1.13E-03	7.5E-07	2.6E-08
213 UCART1	557269.4	3777433.38	557269.4, 3777433.38	1.09E-03	7.2E-07	2.5E-08
214 UCART1	557289.4	3777433.38	557289.4, 3777433.38	1.05E-03	6.9E-07	2.4E-08
215 UCART1	557309.4	3777433.38	557309.4, 3777433.38	1.01E-03	6.7E-07	2.3E-08
216 UCART1	557329.4	3777433.38	557329.4, 3777433.38	9.68E-04	6.4E-07	2.2E-08
217 UCART1	557349.4	3777433.38	557349.4, 3777433.38	9.26E-04	6.1E-07	2.1E-08
218 UCART1	557369.4	3777433.38	557369.4, 3777433.38	8.90E-04	5.9E-07	2.0E-08
219 UCART1	557389.4	3777433.38	557389.4, 3777433.38	8.58E-04	5.7E-07	1.9E-08
220 UCART1	557409.4	3777433.38	557409.4, 3777433.38	8.24E-04	5.5E-07	1.9E-08
221 UCART1	557429.4	3777433.38	557429.4, 3777433.38	7.87E-04	5.2E-07	1.8E-08
222 UCART1	557449.4	3777433.38	557449.4, 3777433.38	7.54E-04	5.0E-07	1.7E-08
223 UCART1	557469.4	3777433.38	557469.4, 3777433.38	7.23E-04	4.8E-07	1.6E-08
224 UCART1	557489.4	3777433.38	557489.4, 3777433.38	6.93E-04	4.6E-07	1.6E-08
225 UCART1	556509.4	3777453.38	556509.4, 3777453.38	1.92E-03	1.3E-06	4.4E-08
226 UCART1	556529.4	3777453.38	556529.4, 3777453.38	2.09E-03	1.4E-06	4.7E-08
227 UCART1	556549.4	3777453.38	556549.4, 3777453.38	2.28E-03	1.5E-06	5.2E-08
228 UCART1	556569.4	3777453.38	556569.4, 3777453.38	2.49E-03	1.7E-06	5.7E-08
229 UCART1	556589.4	3777453.38	556589.4, 3777453.38	2.75E-03	1.8E-06	6.2E-08
230 UCART1	556609.4	3777453.38	556609.4, 3777453.38	3.01E-03	2.0E-06	6.8E-08
231 UCART1	556629.4	3777453.38	556629.4, 3777453.38	3.26E-03	2.2E-06	7.4E-08
232 UCART1	556649.4	3777453.38	556649.4, 3777453.38	3.42E-03	2.3E-06	7.8E-08

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations	Worker Dose	Worker Risk
	X	Y	X, Y	Total	Operations	Operations
233 UCART1	556669.4	3777453.38	556669.4, 3777453.38	3.43E-03	2.3E-06	7.8E-08
234 UCART1	556689.4	3777453.38	556689.4, 3777453.38	3.32E-03	2.2E-06	7.5E-08
235 UCART1	556709.4	3777453.38	556709.4, 3777453.38	3.14E-03	2.1E-06	7.1E-08
236 UCART1	556729.4	3777453.38	556729.4, 3777453.38	3.04E-03	2.0E-06	6.9E-08
237 UCART1	556749.4	3777453.38	556749.4, 3777453.38	3.02E-03	2.0E-06	6.9E-08
238 UCART1	556769.4	3777453.38	556769.4, 3777453.38	3.07E-03	2.0E-06	7.0E-08
239 UCART1	556789.4	3777453.38	556789.4, 3777453.38	3.12E-03	2.1E-06	7.1E-08
240 UCART1	556809.4	3777453.38	556809.4, 3777453.38	3.18E-03	2.1E-06	7.2E-08
241 UCART1	556829.4	3777453.38	556829.4, 3777453.38	3.25E-03	2.2E-06	7.4E-08
242 UCART1	556849.4	3777453.38	556849.4, 3777453.38	3.30E-03	2.2E-06	7.5E-08
243 UCART1	556869.4	3777453.38	556869.4, 3777453.38	3.34E-03	2.2E-06	7.6E-08
244 UCART1	556889.4	3777453.38	556889.4, 3777453.38	3.30E-03	2.2E-06	7.5E-08
245 UCART1	556909.4	3777453.38	556909.4, 3777453.38	3.23E-03	2.1E-06	7.3E-08
246 UCART1	556929.4	3777453.38	556929.4, 3777453.38	3.08E-03	2.0E-06	7.0E-08
247 UCART1	556949.4	3777453.38	556949.4, 3777453.38	2.90E-03	1.9E-06	6.6E-08
248 UCART1	556969.4	3777453.38	556969.4, 3777453.38	2.65E-03	1.8E-06	6.0E-08
249 UCART1	556989.4	3777453.38	556989.4, 3777453.38	2.37E-03	1.6E-06	5.4E-08
250 UCART1	557009.4	3777453.38	557009.4, 3777453.38	2.10E-03	1.4E-06	4.8E-08
251 UCART1	557029.4	3777453.38	557029.4, 3777453.38	1.88E-03	1.2E-06	4.3E-08
252 UCART1	557049.4	3777453.38	557049.4, 3777453.38	1.71E-03	1.1E-06	3.9E-08
253 UCART1	557069.4	3777453.38	557069.4, 3777453.38	1.59E-03	1.1E-06	3.6E-08
254 UCART1	557089.4	3777453.38	557089.4, 3777453.38	1.49E-03	9.9E-07	3.4E-08
255 UCART1	557109.4	3777453.38	557109.4, 3777453.38	1.41E-03	9.4E-07	3.2E-08
256 UCART1	557129.4	3777453.38	557129.4, 3777453.38	1.34E-03	8.9E-07	3.0E-08
257 UCART1	557149.4	3777453.38	557149.4, 3777453.38	1.28E-03	8.5E-07	2.9E-08
258 UCART1	557169.4	3777453.38	557169.4, 3777453.38	1.22E-03	8.1E-07	2.8E-08
259 UCART1	557189.4	3777453.38	557189.4, 3777453.38	1.17E-03	7.7E-07	2.6E-08
260 UCART1	557209.4	3777453.38	557209.4, 3777453.38	1.12E-03	7.4E-07	2.5E-08
261 UCART1	557229.4	3777453.38	557229.4, 3777453.38	1.08E-03	7.1E-07	2.4E-08
262 UCART1	557249.4	3777453.38	557249.4, 3777453.38	1.04E-03	6.9E-07	2.4E-08
263 UCART1	557269.4	3777453.38	557269.4, 3777453.38	1.01E-03	6.7E-07	2.3E-08
264 UCART1	557289.4	3777453.38	557289.4, 3777453.38	9.72E-04	6.4E-07	2.2E-08
265 UCART1	557309.4	3777453.38	557309.4, 3777453.38	9.40E-04	6.2E-07	2.1E-08
266 UCART1	557329.4	3777453.38	557329.4, 3777453.38	9.08E-04	6.0E-07	2.1E-08
267 UCART1	557349.4	3777453.38	557349.4, 3777453.38	8.76E-04	5.8E-07	2.0E-08
268 UCART1	557369.4	3777453.38	557369.4, 3777453.38	8.42E-04	5.6E-07	1.9E-08
269 UCART1	557389.4	3777453.38	557389.4, 3777453.38	8.12E-04	5.4E-07	1.8E-08
270 UCART1	557409.4	3777453.38	557409.4, 3777453.38	7.85E-04	5.2E-07	1.8E-08
271 UCART1	557429.4	3777453.38	557429.4, 3777453.38	7.55E-04	5.0E-07	1.7E-08
272 UCART1	557449.4	3777453.38	557449.4, 3777453.38	7.27E-04	4.8E-07	1.6E-08
273 UCART1	557469.4	3777453.38	557469.4, 3777453.38	6.98E-04	4.6E-07	1.6E-08
274 UCART1	557489.4	3777453.38	557489.4, 3777453.38	6.69E-04	4.4E-07	1.5E-08
275 UCART1	556509.4	3777473.38	556509.4, 3777473.38	1.86E-03	1.2E-06	4.2E-08
276 UCART1	556529.4	3777473.38	556529.4, 3777473.38	2.01E-03	1.3E-06	4.6E-08
277 UCART1	556549.4	3777473.38	556549.4, 3777473.38	2.19E-03	1.5E-06	5.0E-08
278 UCART1	556569.4	3777473.38	556569.4, 3777473.38	2.41E-03	1.6E-06	5.5E-08
279 UCART1	556589.4	3777473.38	556589.4, 3777473.38	2.63E-03	1.7E-06	6.0E-08
280 UCART1	556609.4	3777473.38	556609.4, 3777473.38	2.83E-03	1.9E-06	6.4E-08
281 UCART1	556629.4	3777473.38	556629.4, 3777473.38	2.99E-03	2.0E-06	6.8E-08
282 UCART1	556649.4	3777473.38	556649.4, 3777473.38	3.04E-03	2.0E-06	6.9E-08
283 UCART1	556669.4	3777473.38	556669.4, 3777473.38	2.97E-03	2.0E-06	6.7E-08
284 UCART1	556689.4	3777473.38	556689.4, 3777473.38	2.82E-03	1.9E-06	6.4E-08
285 UCART1	556709.4	3777473.38	556709.4, 3777473.38	2.70E-03	1.8E-06	6.1E-08
286 UCART1	556729.4	3777473.38	556729.4, 3777473.38	2.65E-03	1.8E-06	6.0E-08
287 UCART1	556749.4	3777473.38	556749.4, 3777473.38	2.66E-03	1.8E-06	6.0E-08
288 UCART1	556769.4	3777473.38	556769.4, 3777473.38	2.71E-03	1.8E-06	6.2E-08
289 UCART1	556789.4	3777473.38	556789.4, 3777473.38	2.75E-03	1.8E-06	6.2E-08
290 UCART1	556809.4	3777473.38	556809.4, 3777473.38	2.80E-03	1.9E-06	6.3E-08

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations	Worker Dose	Worker Risk
	X	Y	X, Y	Total	Operations	Operations
291 UCART1	556829.4	3777473.38	556829.4, 3777473.38	2.85E-03	1.9E-06	6.5E-08
292 UCART1	556849.4	3777473.38	556849.4, 3777473.38	2.91E-03	1.9E-06	6.6E-08
293 UCART1	556869.4	3777473.38	556869.4, 3777473.38	2.94E-03	1.9E-06	6.7E-08
294 UCART1	556889.4	3777473.38	556889.4, 3777473.38	2.91E-03	1.9E-06	6.6E-08
295 UCART1	556909.4	3777473.38	556909.4, 3777473.38	2.86E-03	1.9E-06	6.5E-08
296 UCART1	556929.4	3777473.38	556929.4, 3777473.38	2.76E-03	1.8E-06	6.3E-08
297 UCART1	556949.4	3777473.38	556949.4, 3777473.38	2.62E-03	1.7E-06	6.0E-08
298 UCART1	556969.4	3777473.38	556969.4, 3777473.38	2.44E-03	1.6E-06	5.5E-08
299 UCART1	556989.4	3777473.38	556989.4, 3777473.38	2.21E-03	1.5E-06	5.0E-08
300 UCART1	557009.4	3777473.38	557009.4, 3777473.38	1.98E-03	1.3E-06	4.5E-08
301 UCART1	557029.4	3777473.38	557029.4, 3777473.38	1.77E-03	1.2E-06	4.0E-08
302 UCART1	557049.4	3777473.38	557049.4, 3777473.38	1.60E-03	1.1E-06	3.6E-08
303 UCART1	557069.4	3777473.38	557069.4, 3777473.38	1.47E-03	9.8E-07	3.3E-08
304 UCART1	557089.4	3777473.38	557089.4, 3777473.38	1.38E-03	9.1E-07	3.1E-08
305 UCART1	557109.4	3777473.38	557109.4, 3777473.38	1.31E-03	8.6E-07	3.0E-08
306 UCART1	557129.4	3777473.38	557129.4, 3777473.38	1.24E-03	8.2E-07	2.8E-08
307 UCART1	557149.4	3777473.38	557149.4, 3777473.38	1.18E-03	7.8E-07	2.7E-08
308 UCART1	557169.4	3777473.38	557169.4, 3777473.38	1.13E-03	7.5E-07	2.6E-08
309 UCART1	557189.4	3777473.38	557189.4, 3777473.38	1.08E-03	7.1E-07	2.5E-08
310 UCART1	557209.4	3777473.38	557209.4, 3777473.38	1.04E-03	6.9E-07	2.4E-08
311 UCART1	557229.4	3777473.38	557229.4, 3777473.38	9.98E-04	6.6E-07	2.3E-08
312 UCART1	557249.4	3777473.38	557249.4, 3777473.38	9.66E-04	6.4E-07	2.2E-08
313 UCART1	557269.4	3777473.38	557269.4, 3777473.38	9.33E-04	6.2E-07	2.1E-08
314 UCART1	557289.4	3777473.38	557289.4, 3777473.38	9.02E-04	6.0E-07	2.0E-08
315 UCART1	557309.4	3777473.38	557309.4, 3777473.38	8.75E-04	5.8E-07	2.0E-08
316 UCART1	557329.4	3777473.38	557329.4, 3777473.38	8.49E-04	5.6E-07	1.9E-08
317 UCART1	557349.4	3777473.38	557349.4, 3777473.38	8.22E-04	5.4E-07	1.9E-08
318 UCART1	557369.4	3777473.38	557369.4, 3777473.38	7.96E-04	5.3E-07	1.8E-08
319 UCART1	557389.4	3777473.38	557389.4, 3777473.38	7.69E-04	5.1E-07	1.7E-08
320 UCART1	557409.4	3777473.38	557409.4, 3777473.38	7.44E-04	4.9E-07	1.7E-08
321 UCART1	557429.4	3777473.38	557429.4, 3777473.38	7.18E-04	4.8E-07	1.6E-08
322 UCART1	557449.4	3777473.38	557449.4, 3777473.38	6.96E-04	4.6E-07	1.6E-08
323 UCART1	557469.4	3777473.38	557469.4, 3777473.38	6.71E-04	4.4E-07	1.5E-08
324 UCART1	557489.4	3777473.38	557489.4, 3777473.38	6.46E-04	4.3E-07	1.5E-08
325 UCART1	556509.4	3777493.38	556509.4, 3777493.38	1.81E-03	1.2E-06	4.1E-08
326 UCART1	556529.4	3777493.38	556529.4, 3777493.38	1.96E-03	1.3E-06	4.4E-08
327 UCART1	556549.4	3777493.38	556549.4, 3777493.38	2.13E-03	1.4E-06	4.8E-08
328 UCART1	556569.4	3777493.38	556569.4, 3777493.38	2.30E-03	1.5E-06	5.2E-08
329 UCART1	556589.4	3777493.38	556589.4, 3777493.38	2.48E-03	1.6E-06	5.6E-08
330 UCART1	556609.4	3777493.38	556609.4, 3777493.38	2.63E-03	1.7E-06	6.0E-08
331 UCART1	556629.4	3777493.38	556629.4, 3777493.38	2.69E-03	1.8E-06	6.1E-08
332 UCART1	556649.4	3777493.38	556649.4, 3777493.38	2.66E-03	1.8E-06	6.0E-08
333 UCART1	556669.4	3777493.38	556669.4, 3777493.38	2.56E-03	1.7E-06	5.8E-08
334 UCART1	556689.4	3777493.38	556689.4, 3777493.38	2.43E-03	1.6E-06	5.5E-08
335 UCART1	556709.4	3777493.38	556709.4, 3777493.38	2.36E-03	1.6E-06	5.3E-08
336 UCART1	556729.4	3777493.38	556729.4, 3777493.38	2.35E-03	1.6E-06	5.3E-08
337 UCART1	556749.4	3777493.38	556749.4, 3777493.38	2.38E-03	1.6E-06	5.4E-08
338 UCART1	556769.4	3777493.38	556769.4, 3777493.38	2.42E-03	1.6E-06	5.5E-08
339 UCART1	556789.4	3777493.38	556789.4, 3777493.38	2.45E-03	1.6E-06	5.6E-08
340 UCART1	556809.4	3777493.38	556809.4, 3777493.38	2.48E-03	1.6E-06	5.6E-08
341 UCART1	556829.4	3777493.38	556829.4, 3777493.38	2.53E-03	1.7E-06	5.7E-08
342 UCART1	556849.4	3777493.38	556849.4, 3777493.38	2.58E-03	1.7E-06	5.8E-08
343 UCART1	556869.4	3777493.38	556869.4, 3777493.38	2.61E-03	1.7E-06	5.9E-08
344 UCART1	556889.4	3777493.38	556889.4, 3777493.38	2.59E-03	1.7E-06	5.9E-08
345 UCART1	556909.4	3777493.38	556909.4, 3777493.38	2.55E-03	1.7E-06	5.8E-08
346 UCART1	556929.4	3777493.38	556929.4, 3777493.38	2.48E-03	1.6E-06	5.6E-08
347 UCART1	556949.4	3777493.38	556949.4, 3777493.38	2.38E-03	1.6E-06	5.4E-08
348 UCART1	556969.4	3777493.38	556969.4, 3777493.38	2.23E-03	1.5E-06	5.1E-08

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
	X	Y	X, Y			
349 UCART1	556989.4	3777493.38	556989.4, 3777493.38	2.06E-03	1.4E-06	4.7E-08
350 UCART1	557009.4	3777493.38	557009.4, 3777493.38	1.87E-03	1.2E-06	4.2E-08
351 UCART1	557029.4	3777493.38	557029.4, 3777493.38	1.68E-03	1.1E-06	3.8E-08
352 UCART1	557049.4	3777493.38	557049.4, 3777493.38	1.51E-03	1.0E-06	3.4E-08
353 UCART1	557069.4	3777493.38	557069.4, 3777493.38	1.38E-03	9.2E-07	3.1E-08
354 UCART1	557089.4	3777493.38	557089.4, 3777493.38	1.28E-03	8.5E-07	2.9E-08
355 UCART1	557109.4	3777493.38	557109.4, 3777493.38	1.21E-03	8.0E-07	2.8E-08
356 UCART1	557129.4	3777493.38	557129.4, 3777493.38	1.15E-03	7.6E-07	2.6E-08
357 UCART1	557149.4	3777493.38	557149.4, 3777493.38	1.10E-03	7.3E-07	2.5E-08
358 UCART1	557169.4	3777493.38	557169.4, 3777493.38	1.05E-03	7.0E-07	2.4E-08
359 UCART1	557189.4	3777493.38	557189.4, 3777493.38	1.00E-03	6.6E-07	2.3E-08
360 UCART1	557209.4	3777493.38	557209.4, 3777493.38	9.66E-04	6.4E-07	2.2E-08
361 UCART1	557229.4	3777493.38	557229.4, 3777493.38	9.28E-04	6.1E-07	2.1E-08
362 UCART1	557249.4	3777493.38	557249.4, 3777493.38	8.96E-04	5.9E-07	2.0E-08
363 UCART1	557269.4	3777493.38	557269.4, 3777493.38	8.67E-04	5.7E-07	2.0E-08
364 UCART1	557289.4	3777493.38	557289.4, 3777493.38	8.40E-04	5.6E-07	1.9E-08
365 UCART1	557309.4	3777493.38	557309.4, 3777493.38	8.14E-04	5.4E-07	1.8E-08
366 UCART1	557329.4	3777493.38	557329.4, 3777493.38	7.91E-04	5.2E-07	1.8E-08
367 UCART1	557349.4	3777493.38	557349.4, 3777493.38	7.69E-04	5.1E-07	1.7E-08
368 UCART1	557369.4	3777493.38	557369.4, 3777493.38	7.47E-04	4.9E-07	1.7E-08
369 UCART1	557389.4	3777493.38	557389.4, 3777493.38	7.26E-04	4.8E-07	1.6E-08
370 UCART1	557409.4	3777493.38	557409.4, 3777493.38	7.05E-04	4.7E-07	1.6E-08
371 UCART1	557429.4	3777493.38	557429.4, 3777493.38	6.81E-04	4.5E-07	1.5E-08
372 UCART1	557449.4	3777493.38	557449.4, 3777493.38	6.61E-04	4.4E-07	1.5E-08
373 UCART1	557469.4	3777493.38	557469.4, 3777493.38	6.41E-04	4.2E-07	1.5E-08
374 UCART1	557489.4	3777493.38	557489.4, 3777493.38	6.20E-04	4.1E-07	1.4E-08
375 UCART1	556509.4	3777513.38	556509.4, 3777513.38	1.75E-03	1.2E-06	4.0E-08
376 UCART1	556529.4	3777513.38	556529.4, 3777513.38	1.90E-03	1.3E-06	4.3E-08
377 UCART1	556549.4	3777513.38	556549.4, 3777513.38	2.05E-03	1.4E-06	4.6E-08
378 UCART1	556569.4	3777513.38	556569.4, 3777513.38	2.22E-03	1.5E-06	5.0E-08
379 UCART1	556589.4	3777513.38	556589.4, 3777513.38	2.34E-03	1.6E-06	5.3E-08
380 UCART1	556609.4	3777513.38	556609.4, 3777513.38	2.41E-03	1.6E-06	5.5E-08
381 UCART1	556629.4	3777513.38	556629.4, 3777513.38	2.42E-03	1.6E-06	5.5E-08
382 UCART1	556649.4	3777513.38	556649.4, 3777513.38	2.34E-03	1.5E-06	5.3E-08
383 UCART1	556669.4	3777513.38	556669.4, 3777513.38	2.23E-03	1.5E-06	5.1E-08
384 UCART1	556689.4	3777513.38	556689.4, 3777513.38	2.13E-03	1.4E-06	4.8E-08
385 UCART1	556709.4	3777513.38	556709.4, 3777513.38	2.09E-03	1.4E-06	4.7E-08
386 UCART1	556729.4	3777513.38	556729.4, 3777513.38	2.11E-03	1.4E-06	4.8E-08
387 UCART1	556749.4	3777513.38	556749.4, 3777513.38	2.14E-03	1.4E-06	4.8E-08
388 UCART1	556769.4	3777513.38	556769.4, 3777513.38	2.17E-03	1.4E-06	4.9E-08
389 UCART1	556789.4	3777513.38	556789.4, 3777513.38	2.20E-03	1.5E-06	5.0E-08
390 UCART1	556809.4	3777513.38	556809.4, 3777513.38	2.22E-03	1.5E-06	5.0E-08
391 UCART1	556829.4	3777513.38	556829.4, 3777513.38	2.26E-03	1.5E-06	5.1E-08
392 UCART1	556849.4	3777513.38	556849.4, 3777513.38	2.30E-03	1.5E-06	5.2E-08
393 UCART1	556869.4	3777513.38	556869.4, 3777513.38	2.33E-03	1.5E-06	5.3E-08
394 UCART1	556889.4	3777513.38	556889.4, 3777513.38	2.32E-03	1.5E-06	5.3E-08
395 UCART1	556909.4	3777513.38	556909.4, 3777513.38	2.28E-03	1.5E-06	5.2E-08
396 UCART1	556929.4	3777513.38	556929.4, 3777513.38	2.23E-03	1.5E-06	5.1E-08
397 UCART1	556949.4	3777513.38	556949.4, 3777513.38	2.16E-03	1.4E-06	4.9E-08
398 UCART1	556969.4	3777513.38	556969.4, 3777513.38	2.05E-03	1.4E-06	4.7E-08
399 UCART1	556989.4	3777513.38	556989.4, 3777513.38	1.92E-03	1.3E-06	4.3E-08
400 UCART1	557009.4	3777513.38	557009.4, 3777513.38	1.76E-03	1.2E-06	4.0E-08
401 UCART1	557029.4	3777513.38	557029.4, 3777513.38	1.59E-03	1.1E-06	3.6E-08
402 UCART1	557049.4	3777513.38	557049.4, 3777513.38	1.44E-03	9.5E-07	3.3E-08
403 UCART1	557069.4	3777513.38	557069.4, 3777513.38	1.31E-03	8.7E-07	3.0E-08
404 UCART1	557089.4	3777513.38	557089.4, 3777513.38	1.21E-03	8.0E-07	2.7E-08
405 UCART1	557109.4	3777513.38	557109.4, 3777513.38	1.13E-03	7.5E-07	2.6E-08
406 UCART1	557129.4	3777513.38	557129.4, 3777513.38	1.08E-03	7.1E-07	2.4E-08

Worker Risk - Fueling

Discrete Receptor ID	X	Y	X, Y	Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
407 UCART1	557149.4	3777513.38	557149.4, 3777513.38	1.03E-03	6.8E-07	2.3E-08
408 UCART1	557169.4	3777513.38	557169.4, 3777513.38	9.83E-04	6.5E-07	2.2E-08
409 UCART1	557189.4	3777513.38	557189.4, 3777513.38	9.40E-04	6.2E-07	2.1E-08
410 UCART1	557209.4	3777513.38	557209.4, 3777513.38	9.05E-04	6.0E-07	2.1E-08
411 UCART1	557229.4	3777513.38	557229.4, 3777513.38	8.68E-04	5.7E-07	2.0E-08
412 UCART1	557249.4	3777513.38	557249.4, 3777513.38	8.38E-04	5.5E-07	1.9E-08
413 UCART1	557269.4	3777513.38	557269.4, 3777513.38	8.10E-04	5.4E-07	1.8E-08
414 UCART1	557289.4	3777513.38	557289.4, 3777513.38	7.83E-04	5.2E-07	1.8E-08
415 UCART1	557309.4	3777513.38	557309.4, 3777513.38	7.61E-04	5.0E-07	1.7E-08
416 UCART1	557329.4	3777513.38	557329.4, 3777513.38	7.39E-04	4.9E-07	1.7E-08
417 UCART1	557349.4	3777513.38	557349.4, 3777513.38	7.19E-04	4.8E-07	1.6E-08
418 UCART1	557369.4	3777513.38	557369.4, 3777513.38	6.99E-04	4.6E-07	1.6E-08
419 UCART1	557389.4	3777513.38	557389.4, 3777513.38	6.82E-04	4.5E-07	1.5E-08
420 UCART1	557409.4	3777513.38	557409.4, 3777513.38	6.64E-04	4.4E-07	1.5E-08
421 UCART1	557429.4	3777513.38	557429.4, 3777513.38	6.45E-04	4.3E-07	1.5E-08
422 UCART1	557449.4	3777513.38	557449.4, 3777513.38	6.27E-04	4.1E-07	1.4E-08
423 UCART1	557469.4	3777513.38	557469.4, 3777513.38	6.10E-04	4.0E-07	1.4E-08
424 UCART1	557489.4	3777513.38	557489.4, 3777513.38	5.92E-04	3.9E-07	1.3E-08
425 UCART1	556509.4	3777533.38	556509.4, 3777533.38	1.71E-03	1.1E-06	3.9E-08
426 UCART1	556529.4	3777533.38	556529.4, 3777533.38	1.84E-03	1.2E-06	4.2E-08
427 UCART1	556549.4	3777533.38	556549.4, 3777533.38	1.97E-03	1.3E-06	4.5E-08
428 UCART1	556569.4	3777533.38	556569.4, 3777533.38	2.09E-03	1.4E-06	4.7E-08
429 UCART1	556589.4	3777533.38	556589.4, 3777533.38	2.16E-03	1.4E-06	4.9E-08
430 UCART1	556609.4	3777533.38	556609.4, 3777533.38	2.18E-03	1.4E-06	4.9E-08
431 UCART1	556629.4	3777533.38	556629.4, 3777533.38	2.14E-03	1.4E-06	4.8E-08
432 UCART1	556649.4	3777533.38	556649.4, 3777533.38	2.04E-03	1.4E-06	4.6E-08
433 UCART1	556669.4	3777533.38	556669.4, 3777533.38	1.94E-03	1.3E-06	4.4E-08
434 UCART1	556689.4	3777533.38	556689.4, 3777533.38	1.88E-03	1.2E-06	4.3E-08
435 UCART1	556709.4	3777533.38	556709.4, 3777533.38	1.88E-03	1.2E-06	4.3E-08
436 UCART1	556729.4	3777533.38	556729.4, 3777533.38	1.91E-03	1.3E-06	4.3E-08
437 UCART1	556749.4	3777533.38	556749.4, 3777533.38	1.94E-03	1.3E-06	4.4E-08
438 UCART1	556769.4	3777533.38	556769.4, 3777533.38	1.96E-03	1.3E-06	4.4E-08
439 UCART1	556789.4	3777533.38	556789.4, 3777533.38	1.98E-03	1.3E-06	4.5E-08
440 UCART1	556809.4	3777533.38	556809.4, 3777533.38	2.00E-03	1.3E-06	4.5E-08
441 UCART1	556829.4	3777533.38	556829.4, 3777533.38	2.04E-03	1.4E-06	4.6E-08
442 UCART1	556849.4	3777533.38	556849.4, 3777533.38	2.07E-03	1.4E-06	4.7E-08
443 UCART1	556869.4	3777533.38	556869.4, 3777533.38	2.09E-03	1.4E-06	4.7E-08
444 UCART1	556889.4	3777533.38	556889.4, 3777533.38	2.09E-03	1.4E-06	4.7E-08
445 UCART1	556909.4	3777533.38	556909.4, 3777533.38	2.06E-03	1.4E-06	4.7E-08
446 UCART1	556929.4	3777533.38	556929.4, 3777533.38	2.02E-03	1.3E-06	4.6E-08
447 UCART1	556949.4	3777533.38	556949.4, 3777533.38	1.96E-03	1.3E-06	4.5E-08
448 UCART1	556969.4	3777533.38	556969.4, 3777533.38	1.88E-03	1.2E-06	4.3E-08
449 UCART1	556989.4	3777533.38	556989.4, 3777533.38	1.78E-03	1.2E-06	4.0E-08
450 UCART1	557009.4	3777533.38	557009.4, 3777533.38	1.65E-03	1.1E-06	3.8E-08
451 UCART1	557029.4	3777533.38	557029.4, 3777533.38	1.51E-03	1.0E-06	3.4E-08
452 UCART1	557049.4	3777533.38	557049.4, 3777533.38	1.37E-03	9.1E-07	3.1E-08
453 UCART1	557069.4	3777533.38	557069.4, 3777533.38	1.25E-03	8.3E-07	2.8E-08
454 UCART1	557089.4	3777533.38	557089.4, 3777533.38	1.15E-03	7.6E-07	2.6E-08
455 UCART1	557109.4	3777533.38	557109.4, 3777533.38	1.07E-03	7.1E-07	2.4E-08
456 UCART1	557129.4	3777533.38	557129.4, 3777533.38	1.01E-03	6.7E-07	2.3E-08
457 UCART1	557149.4	3777533.38	557149.4, 3777533.38	9.64E-04	6.4E-07	2.2E-08
458 UCART1	557169.4	3777533.38	557169.4, 3777533.38	9.21E-04	6.1E-07	2.1E-08
459 UCART1	557189.4	3777533.38	557189.4, 3777533.38	8.83E-04	5.8E-07	2.0E-08
460 UCART1	557209.4	3777533.38	557209.4, 3777533.38	8.50E-04	5.6E-07	1.9E-08
461 UCART1	557229.4	3777533.38	557229.4, 3777533.38	8.15E-04	5.4E-07	1.8E-08
462 UCART1	557249.4	3777533.38	557249.4, 3777533.38	7.87E-04	5.2E-07	1.8E-08
463 UCART1	557269.4	3777533.38	557269.4, 3777533.38	7.60E-04	5.0E-07	1.7E-08
464 UCART1	557289.4	3777533.38	557289.4, 3777533.38	7.35E-04	4.9E-07	1.7E-08

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations	Worker Dose	Worker Risk
	X	Y	X, Y	Total	Operations	Operations
465 UCART1	557309.4	3777533.38	557309.4, 3777533.38	7.13E-04	4.7E-07	1.6E-08
466 UCART1	557329.4	3777533.38	557329.4, 3777533.38	6.93E-04	4.6E-07	1.6E-08
467 UCART1	557349.4	3777533.38	557349.4, 3777533.38	6.75E-04	4.5E-07	1.5E-08
468 UCART1	557369.4	3777533.38	557369.4, 3777533.38	6.57E-04	4.3E-07	1.5E-08
469 UCART1	557389.4	3777533.38	557389.4, 3777533.38	6.39E-04	4.2E-07	1.4E-08
470 UCART1	557409.4	3777533.38	557409.4, 3777533.38	6.25E-04	4.1E-07	1.4E-08
471 UCART1	557429.4	3777533.38	557429.4, 3777533.38	6.09E-04	4.0E-07	1.4E-08
472 UCART1	557449.4	3777533.38	557449.4, 3777533.38	5.94E-04	3.9E-07	1.3E-08
473 UCART1	557469.4	3777533.38	557469.4, 3777533.38	5.78E-04	3.8E-07	1.3E-08
474 UCART1	557489.4	3777533.38	557489.4, 3777533.38	5.63E-04	3.7E-07	1.3E-08
475 UCART1	556509.4	3777553.38	556509.4, 3777553.38	1.66E-03	1.1E-06	3.8E-08
476 UCART1	556529.4	3777553.38	556529.4, 3777553.38	1.77E-03	1.2E-06	4.0E-08
477 UCART1	556549.4	3777553.38	556549.4, 3777553.38	1.87E-03	1.2E-06	4.2E-08
478 UCART1	556569.4	3777553.38	556569.4, 3777553.38	1.95E-03	1.3E-06	4.4E-08
479 UCART1	556589.4	3777553.38	556589.4, 3777553.38	1.98E-03	1.3E-06	4.5E-08
480 UCART1	556609.4	3777553.38	556609.4, 3777553.38	1.96E-03	1.3E-06	4.4E-08
481 UCART1	556629.4	3777553.38	556629.4, 3777553.38	1.88E-03	1.2E-06	4.3E-08
482 UCART1	556649.4	3777553.38	556649.4, 3777553.38	1.80E-03	1.2E-06	4.1E-08
483 UCART1	556669.4	3777553.38	556669.4, 3777553.38	1.72E-03	1.1E-06	3.9E-08
484 UCART1	556689.4	3777553.38	556689.4, 3777553.38	1.69E-03	1.1E-06	3.8E-08
485 UCART1	556709.4	3777553.38	556709.4, 3777553.38	1.71E-03	1.1E-06	3.9E-08
486 UCART1	556729.4	3777553.38	556729.4, 3777553.38	1.73E-03	1.1E-06	3.9E-08
487 UCART1	556749.4	3777553.38	556749.4, 3777553.38	1.75E-03	1.2E-06	4.0E-08
488 UCART1	556769.4	3777553.38	556769.4, 3777553.38	1.77E-03	1.2E-06	4.0E-08
489 UCART1	556789.4	3777553.38	556789.4, 3777553.38	1.80E-03	1.2E-06	4.1E-08
490 UCART1	556809.4	3777553.38	556809.4, 3777553.38	1.82E-03	1.2E-06	4.1E-08
491 UCART1	556829.4	3777553.38	556829.4, 3777553.38	1.85E-03	1.2E-06	4.2E-08
492 UCART1	556849.4	3777553.38	556849.4, 3777553.38	1.87E-03	1.2E-06	4.2E-08
493 UCART1	556869.4	3777553.38	556869.4, 3777553.38	1.89E-03	1.3E-06	4.3E-08
494 UCART1	556889.4	3777553.38	556889.4, 3777553.38	1.89E-03	1.3E-06	4.3E-08
495 UCART1	556909.4	3777553.38	556909.4, 3777553.38	1.88E-03	1.2E-06	4.3E-08
496 UCART1	556929.4	3777553.38	556929.4, 3777553.38	1.85E-03	1.2E-06	4.2E-08
497 UCART1	556949.4	3777553.38	556949.4, 3777553.38	1.79E-03	1.2E-06	4.1E-08
498 UCART1	556969.4	3777553.38	556969.4, 3777553.38	1.73E-03	1.1E-06	3.9E-08
499 UCART1	556989.4	3777553.38	556989.4, 3777553.38	1.64E-03	1.1E-06	3.7E-08
500 UCART1	557009.4	3777553.38	557009.4, 3777553.38	1.55E-03	1.0E-06	3.5E-08
501 UCART1	557029.4	3777553.38	557029.4, 3777553.38	1.43E-03	9.5E-07	3.2E-08
502 UCART1	557049.4	3777553.38	557049.4, 3777553.38	1.31E-03	8.7E-07	3.0E-08
503 UCART1	557069.4	3777553.38	557069.4, 3777553.38	1.19E-03	7.9E-07	2.7E-08
504 UCART1	557089.4	3777553.38	557089.4, 3777553.38	1.09E-03	7.2E-07	2.5E-08
505 UCART1	557109.4	3777553.38	557109.4, 3777553.38	1.01E-03	6.7E-07	2.3E-08
506 UCART1	557129.4	3777553.38	557129.4, 3777553.38	9.52E-04	6.3E-07	2.2E-08
507 UCART1	557149.4	3777553.38	557149.4, 3777553.38	9.05E-04	6.0E-07	2.1E-08
508 UCART1	557169.4	3777553.38	557169.4, 3777553.38	8.66E-04	5.7E-07	2.0E-08
509 UCART1	557189.4	3777553.38	557189.4, 3777553.38	8.31E-04	5.5E-07	1.9E-08
510 UCART1	557209.4	3777553.38	557209.4, 3777553.38	7.99E-04	5.3E-07	1.8E-08
511 UCART1	557229.4	3777553.38	557229.4, 3777553.38	7.69E-04	5.1E-07	1.7E-08
512 UCART1	557249.4	3777553.38	557249.4, 3777553.38	7.41E-04	4.9E-07	1.7E-08
513 UCART1	557269.4	3777553.38	557269.4, 3777553.38	7.15E-04	4.7E-07	1.6E-08
514 UCART1	557289.4	3777553.38	557289.4, 3777553.38	6.92E-04	4.6E-07	1.6E-08
515 UCART1	557309.4	3777553.38	557309.4, 3777553.38	6.71E-04	4.4E-07	1.5E-08
516 UCART1	557329.4	3777553.38	557329.4, 3777553.38	6.51E-04	4.3E-07	1.5E-08
517 UCART1	557349.4	3777553.38	557349.4, 3777553.38	6.34E-04	4.2E-07	1.4E-08
518 UCART1	557369.4	3777553.38	557369.4, 3777553.38	6.18E-04	4.1E-07	1.4E-08
519 UCART1	557389.4	3777553.38	557389.4, 3777553.38	6.02E-04	4.0E-07	1.4E-08
520 UCART1	557409.4	3777553.38	557409.4, 3777553.38	5.88E-04	3.9E-07	1.3E-08
521 UCART1	557429.4	3777553.38	557429.4, 3777553.38	5.74E-04	3.8E-07	1.3E-08
522 UCART1	557449.4	3777553.38	557449.4, 3777553.38	5.61E-04	3.7E-07	1.3E-08

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
	X	Y	X, Y			
523 UCART1	557469.4	3777553.38	557469.4, 3777553.38	5.48E-04	3.6E-07	1.2E-08
524 UCART1	557489.4	3777553.38	557489.4, 3777553.38	5.34E-04	3.5E-07	1.2E-08
525 1	557438.91	3777336.71	557438.91, 3777336.71	8.98E-04	5.9E-07	2.0E-08
526 1	556615.91	3777136.99	556615.91, 3777136.99	2.72E-03	1.8E-06	6.2E-08
527 1	556586.37	3777056.16	556586.37, 3777056.16	1.65E-03	1.1E-06	3.7E-08
528 UCART4	556672.35	3776929.14	556672.35, 3776929.14	1.40E-03	9.3E-07	3.2E-08
529 UCART4	556692.35	3776929.14	556692.35, 3776929.14	1.51E-03	1.0E-06	3.4E-08
530 UCART4	556712.35	3776929.14	556712.35, 3776929.14	1.61E-03	1.1E-06	3.7E-08
531 UCART4	556732.35	3776929.14	556732.35, 3776929.14	1.71E-03	1.1E-06	3.9E-08
532 UCART4	556752.35	3776929.14	556752.35, 3776929.14	1.83E-03	1.2E-06	4.1E-08
533 UCART4	556772.35	3776929.14	556772.35, 3776929.14	1.96E-03	1.3E-06	4.4E-08
534 UCART4	556792.35	3776929.14	556792.35, 3776929.14	2.12E-03	1.4E-06	4.8E-08
535 UCART4	556812.35	3776929.14	556812.35, 3776929.14	2.33E-03	1.5E-06	5.3E-08
536 UCART4	556832.35	3776929.14	556832.35, 3776929.14	2.58E-03	1.7E-06	5.9E-08
537 UCART4	556852.35	3776929.14	556852.35, 3776929.14	2.96E-03	2.0E-06	6.7E-08
538 UCART4	556672.35	3776949.14	556672.35, 3776949.14	1.52E-03	1.0E-06	3.4E-08
539 UCART4	556692.35	3776949.14	556692.35, 3776949.14	1.65E-03	1.1E-06	3.7E-08
540 UCART4	556712.35	3776949.14	556712.35, 3776949.14	1.78E-03	1.2E-06	4.0E-08
541 UCART4	556732.35	3776949.14	556732.35, 3776949.14	1.91E-03	1.3E-06	4.3E-08
542 UCART4	556752.35	3776949.14	556752.35, 3776949.14	2.04E-03	1.4E-06	4.6E-08
543 UCART4	556772.35	3776949.14	556772.35, 3776949.14	2.20E-03	1.5E-06	5.0E-08
544 UCART4	556792.35	3776949.14	556792.35, 3776949.14	2.40E-03	1.6E-06	5.5E-08
545 UCART4	556812.35	3776949.14	556812.35, 3776949.14	2.65E-03	1.8E-06	6.0E-08
546 UCART4	556832.35	3776949.14	556832.35, 3776949.14	2.97E-03	2.0E-06	6.7E-08
547 UCART4	556852.35	3776949.14	556852.35, 3776949.14	3.44E-03	2.3E-06	7.8E-08
548 UCART4	556672.35	3776969.14	556672.35, 3776969.14	1.65E-03	1.1E-06	3.7E-08
549 UCART4	556692.35	3776969.14	556692.35, 3776969.14	1.81E-03	1.2E-06	4.1E-08
550 UCART4	556712.35	3776969.14	556712.35, 3776969.14	1.98E-03	1.3E-06	4.5E-08
551 UCART4	556732.35	3776969.14	556732.35, 3776969.14	2.15E-03	1.4E-06	4.9E-08
552 UCART4	556752.35	3776969.14	556752.35, 3776969.14	2.31E-03	1.5E-06	5.2E-08
553 UCART4	556772.35	3776969.14	556772.35, 3776969.14	2.50E-03	1.7E-06	5.7E-08
554 UCART4	556792.35	3776969.14	556792.35, 3776969.14	2.74E-03	1.8E-06	6.2E-08
555 UCART4	556812.35	3776969.14	556812.35, 3776969.14	3.05E-03	2.0E-06	6.9E-08
556 UCART4	556832.35	3776969.14	556832.35, 3776969.14	3.45E-03	2.3E-06	7.8E-08
557 UCART4	556852.35	3776969.14	556852.35, 3776969.14	4.06E-03	2.7E-06	9.2E-08
558 UCART4	556672.35	3776989.14	556672.35, 3776989.14	1.79E-03	1.2E-06	4.1E-08
559 UCART4	556692.35	3776989.14	556692.35, 3776989.14	1.99E-03	1.3E-06	4.5E-08
560 UCART4	556712.35	3776989.14	556712.35, 3776989.14	2.20E-03	1.5E-06	5.0E-08
561 UCART4	556732.35	3776989.14	556732.35, 3776989.14	2.43E-03	1.6E-06	5.5E-08
562 UCART4	556752.35	3776989.14	556752.35, 3776989.14	2.64E-03	1.7E-06	6.0E-08
563 UCART4	556772.35	3776989.14	556772.35, 3776989.14	2.87E-03	1.9E-06	6.5E-08
564 UCART4	556792.35	3776989.14	556792.35, 3776989.14	3.17E-03	2.1E-06	7.2E-08
565 UCART4	556812.35	3776989.14	556812.35, 3776989.14	3.54E-03	2.3E-06	8.0E-08
566 UCART4	556832.35	3776989.14	556832.35, 3776989.14	4.06E-03	2.7E-06	9.2E-08
567 UCART4	556852.35	3776989.14	556852.35, 3776989.14	4.88E-03	3.2E-06	1.1E-07
568 UCART4	556672.35	3777009.14	556672.35, 3777009.14	1.95E-03	1.3E-06	4.4E-08
569 UCART4	556692.35	3777009.14	556692.35, 3777009.14	2.18E-03	1.4E-06	5.0E-08
570 UCART4	556712.35	3777009.14	556712.35, 3777009.14	2.46E-03	1.6E-06	5.6E-08
571 UCART4	556732.35	3777009.14	556732.35, 3777009.14	2.75E-03	1.8E-06	6.2E-08
572 UCART4	556752.35	3777009.14	556752.35, 3777009.14	3.04E-03	2.0E-06	6.9E-08
573 UCART4	556772.35	3777009.14	556772.35, 3777009.14	3.34E-03	2.2E-06	7.6E-08
574 UCART4	556792.35	3777009.14	556792.35, 3777009.14	3.71E-03	2.5E-06	8.4E-08
575 UCART4	556812.35	3777009.14	556812.35, 3777009.14	4.18E-03	2.8E-06	9.5E-08
576 UCART4	556832.35	3777009.14	556832.35, 3777009.14	4.86E-03	3.2E-06	1.1E-07
577 UCART4	556852.35	3777009.14	556852.35, 3777009.14	5.99E-03	4.0E-06	1.4E-07
578 UCART4	556672.35	3777029.14	556672.35, 3777029.14	2.15E-03	1.4E-06	4.9E-08
579 UCART4	556692.35	3777029.14	556692.35, 3777029.14	2.41E-03	1.6E-06	5.5E-08
580 UCART4	556712.35	3777029.14	556712.35, 3777029.14	2.74E-03	1.8E-06	6.2E-08

Worker Risk - Fueling

Discrete Receptor ID	X	Y	X, Y	Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
581 UCART4	556732.35	3777029.14	556732.35, 3777029.14	3.12E-03	2.1E-06	7.1E-08
582 UCART4	556752.35	3777029.14	556752.35, 3777029.14	3.52E-03	2.3E-06	8.0E-08
583 UCART4	556772.35	3777029.14	556772.35, 3777029.14	3.94E-03	2.6E-06	8.9E-08
584 UCART4	556792.35	3777029.14	556792.35, 3777029.14	4.41E-03	2.9E-06	1.0E-07
585 UCART4	556812.35	3777029.14	556812.35, 3777029.14	5.01E-03	3.3E-06	1.1E-07
586 UCART4	556832.35	3777029.14	556832.35, 3777029.14	5.95E-03	3.9E-06	1.3E-07
587 UCART4	556852.35	3777029.14	556852.35, 3777029.14	7.53E-03	5.0E-06	1.7E-07
588 UCART4	556672.35	3777049.14	556672.35, 3777049.14	2.43E-03	1.6E-06	5.5E-08
589 UCART4	556692.35	3777049.14	556692.35, 3777049.14	2.70E-03	1.8E-06	6.1E-08
590 UCART4	556712.35	3777049.14	556712.35, 3777049.14	3.08E-03	2.0E-06	7.0E-08
591 UCART4	556732.35	3777049.14	556732.35, 3777049.14	3.55E-03	2.4E-06	8.1E-08
592 UCART4	556752.35	3777049.14	556752.35, 3777049.14	4.11E-03	2.7E-06	9.3E-08
593 UCART4	556772.35	3777049.14	556772.35, 3777049.14	4.70E-03	3.1E-06	1.1E-07
594 UCART4	556792.35	3777049.14	556792.35, 3777049.14	5.34E-03	3.5E-06	1.2E-07
595 UCART4	556812.35	3777049.14	556812.35, 3777049.14	6.16E-03	4.1E-06	1.4E-07
596 UCART4	556832.35	3777049.14	556832.35, 3777049.14	7.47E-03	4.9E-06	1.7E-07
597 UCART4	556852.35	3777049.14	556852.35, 3777049.14	9.80E-03	6.5E-06	2.2E-07
598 UCART3	556927.54	3776959.53	556927.54, 3776959.53	7.83E-03	5.2E-06	1.8E-07
599 UCART3	556947.54	3776959.53	556947.54, 3776959.53	8.18E-03	5.4E-06	1.9E-07
600 UCART3	556967.54	3776959.53	556967.54, 3776959.53	7.51E-03	5.0E-06	1.7E-07
601 UCART3	556987.54	3776959.53	556987.54, 3776959.53	6.12E-03	4.0E-06	1.4E-07
602 UCART3	557007.54	3776959.53	557007.54, 3776959.53	4.64E-03	3.1E-06	1.1E-07
603 UCART3	557027.54	3776959.53	557027.54, 3776959.53	3.52E-03	2.3E-06	8.0E-08
604 UCART3	557047.54	3776959.53	557047.54, 3776959.53	2.84E-03	1.9E-06	6.4E-08
605 UCART3	557067.54	3776959.53	557067.54, 3776959.53	2.45E-03	1.6E-06	5.5E-08
606 UCART3	557087.54	3776959.53	557087.54, 3776959.53	2.20E-03	1.5E-06	5.0E-08
607 UCART3	556927.54	3776979.53	556927.54, 3776979.53	9.36E-03	6.2E-06	2.1E-07
608 UCART3	556947.54	3776979.53	556947.54, 3776979.53	9.21E-03	6.1E-06	2.1E-07
609 UCART3	556967.54	3776979.53	556967.54, 3776979.53	7.84E-03	5.2E-06	1.8E-07
610 UCART3	556987.54	3776979.53	556987.54, 3776979.53	5.99E-03	4.0E-06	1.4E-07
611 UCART3	557007.54	3776979.53	557007.54, 3776979.53	4.44E-03	2.9E-06	1.0E-07
612 UCART3	557027.54	3776979.53	557027.54, 3776979.53	3.46E-03	2.3E-06	7.8E-08
613 UCART3	557047.54	3776979.53	557047.54, 3776979.53	2.91E-03	1.9E-06	6.6E-08
614 UCART3	557067.54	3776979.53	557067.54, 3776979.53	2.59E-03	1.7E-06	5.9E-08
615 UCART3	557087.54	3776979.53	557087.54, 3776979.53	2.36E-03	1.6E-06	5.4E-08
616 UCART3	556927.54	3776999.53	556927.54, 3776999.53	1.11E-02	7.3E-06	2.5E-07
617 UCART3	556947.54	3776999.53	556947.54, 3776999.53	1.01E-02	6.7E-06	2.3E-07
618 UCART3	556967.54	3776999.53	556967.54, 3776999.53	7.91E-03	5.2E-06	1.8E-07
619 UCART3	556987.54	3776999.53	556987.54, 3776999.53	5.77E-03	3.8E-06	1.3E-07
620 UCART3	557007.54	3776999.53	557007.54, 3776999.53	4.33E-03	2.9E-06	9.8E-08
621 UCART3	557027.54	3776999.53	557027.54, 3776999.53	3.53E-03	2.3E-06	8.0E-08
622 UCART3	557047.54	3776999.53	557047.54, 3776999.53	3.08E-03	2.0E-06	7.0E-08
623 UCART3	557067.54	3776999.53	557067.54, 3776999.53	2.79E-03	1.8E-06	6.3E-08
624 UCART3	557087.54	3776999.53	557087.54, 3776999.53	2.55E-03	1.7E-06	5.8E-08
625 UCART3	556927.54	3777019.53	556927.54, 3777019.53	1.29E-02	8.5E-06	2.9E-07
626 UCART3	556947.54	3777019.53	556947.54, 3777019.53	1.06E-02	7.0E-06	2.4E-07
627 UCART3	556967.54	3777019.53	556967.54, 3777019.53	7.75E-03	5.1E-06	1.8E-07
628 UCART3	556987.54	3777019.53	556987.54, 3777019.53	5.59E-03	3.7E-06	1.3E-07
629 UCART3	557007.54	3777019.53	557007.54, 3777019.53	4.39E-03	2.9E-06	1.0E-07
630 UCART3	557027.54	3777019.53	557027.54, 3777019.53	3.75E-03	2.5E-06	8.5E-08
631 UCART3	557047.54	3777019.53	557047.54, 3777019.53	3.35E-03	2.2E-06	7.6E-08
632 UCART3	557067.54	3777019.53	557067.54, 3777019.53	3.04E-03	2.0E-06	6.9E-08
633 UCART3	557087.54	3777019.53	557087.54, 3777019.53	2.77E-03	1.8E-06	6.3E-08
634 UCART3	556927.54	3777039.53	556927.54, 3777039.53	1.45E-02	9.6E-06	3.3E-07
635 UCART3	556947.54	3777039.53	556947.54, 3777039.53	1.08E-02	7.1E-06	2.4E-07
636 UCART3	556967.54	3777039.53	556967.54, 3777039.53	7.52E-03	5.0E-06	1.7E-07
637 UCART3	556987.54	3777039.53	556987.54, 3777039.53	5.63E-03	3.7E-06	1.3E-07
638 UCART3	557007.54	3777039.53	557007.54, 3777039.53	4.67E-03	3.1E-06	1.1E-07

Worker Risk - Fueling

Discrete Receptor ID	X	Y	X, Y	Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
639 UCART3	557027.54	3777039.53	557027.54, 3777039.53	4.11E-03	2.7E-06	9.3E-08
640 UCART3	557047.54	3777039.53	557047.54, 3777039.53	3.68E-03	2.4E-06	8.4E-08
641 UCART3	557067.54	3777039.53	557067.54, 3777039.53	3.32E-03	2.2E-06	7.5E-08
642 UCART3	557087.54	3777039.53	557087.54, 3777039.53	3.00E-03	2.0E-06	6.8E-08
643 UCART3	557047.54	3777059.53	557047.54, 3777059.53	4.05E-03	2.7E-06	9.2E-08
644 UCART3	557067.54	3777059.53	557067.54, 3777059.53	3.61E-03	2.4E-06	8.2E-08
645 UCART3	557087.54	3777059.53	557087.54, 3777059.53	3.23E-03	2.1E-06	7.3E-08
646 UCART2	556919.02	3777174.93	556919.02, 3777174.93	3.55E-02	2.3E-05	8.0E-07
647 UCART2	556939.02	3777174.93	556939.02, 3777174.93	2.29E-02	1.5E-05	5.2E-07
648 UCART2	556919.02	3777194.93	556919.02, 3777194.93	3.94E-02	2.6E-05	8.9E-07
649 UCART2	556939.02	3777194.93	556939.02, 3777194.93	2.52E-02	1.7E-05	5.7E-07
650 UCART2	556919.02	3777214.93	556919.02, 3777214.93	3.32E-02	2.2E-05	7.5E-07
651 UCART2	556939.02	3777214.93	556939.02, 3777214.93	2.36E-02	1.6E-05	5.3E-07
652 UCART2	556919.02	3777234.93	556919.02, 3777234.93	2.38E-02	1.6E-05	5.4E-07
653 UCART2	556939.02	3777234.93	556939.02, 3777234.93	1.87E-02	1.2E-05	4.2E-07
654 UCART2	556919.02	3777254.93	556919.02, 3777254.93	1.68E-02	1.1E-05	3.8E-07
655 UCART2	556939.02	3777254.93	556939.02, 3777254.93	1.38E-02	9.2E-06	3.1E-07
656 UCART1	557023.57	3777171.57	557023.57, 3777171.57	7.06E-03	4.7E-06	1.6E-07
657 UCART1	557043.57	3777171.57	557043.57, 3777171.57	5.83E-03	3.9E-06	1.3E-07
658 UCART1	557063.57	3777171.57	557063.57, 3777171.57	4.91E-03	3.2E-06	1.1E-07
659 UCART1	557083.57	3777171.57	557083.57, 3777171.57	4.20E-03	2.8E-06	9.5E-08
660 UCART1	557023.57	3777191.57	557023.57, 3777191.57	7.62E-03	5.0E-06	1.7E-07
661 UCART1	557043.57	3777191.57	557043.57, 3777191.57	6.27E-03	4.1E-06	1.4E-07
662 UCART1	557063.57	3777191.57	557063.57, 3777191.57	5.25E-03	3.5E-06	1.2E-07
663 UCART1	557083.57	3777191.57	557083.57, 3777191.57	4.48E-03	3.0E-06	1.0E-07
664 UCART1	557023.57	3777211.57	557023.57, 3777211.57	7.95E-03	5.3E-06	1.8E-07
665 UCART1	557043.57	3777211.57	557043.57, 3777211.57	6.56E-03	4.3E-06	1.5E-07
666 UCART1	557063.57	3777211.57	557063.57, 3777211.57	5.52E-03	3.6E-06	1.3E-07
667 UCART1	557083.57	3777211.57	557083.57, 3777211.57	4.67E-03	3.1E-06	1.1E-07
668 UCART1	557023.57	3777231.57	557023.57, 3777231.57	7.74E-03	5.1E-06	1.8E-07
669 UCART1	557043.57	3777231.57	557043.57, 3777231.57	6.49E-03	4.3E-06	1.5E-07
670 UCART1	557063.57	3777231.57	557063.57, 3777231.57	5.51E-03	3.6E-06	1.3E-07
671 UCART1	557083.57	3777231.57	557083.57, 3777231.57	4.66E-03	3.1E-06	1.1E-07
672 UCART1	557023.57	3777251.57	557023.57, 3777251.57	7.06E-03	4.7E-06	1.6E-07
673 UCART1	557043.57	3777251.57	557043.57, 3777251.57	6.05E-03	4.0E-06	1.4E-07
674 UCART1	557063.57	3777251.57	557063.57, 3777251.57	5.24E-03	3.5E-06	1.2E-07
675 UCART1	557083.57	3777251.57	557083.57, 3777251.57	4.44E-03	2.9E-06	1.0E-07
676 UCART2	556249.05	3776972.85	556249.05, 3776972.85	4.01E-04	2.7E-07	9.1E-09
677 UCART2	556269.05	3776972.85	556269.05, 3776972.85	4.14E-04	2.7E-07	9.4E-09
678 UCART2	556229.05	3776992.85	556229.05, 3776992.85	4.27E-04	2.8E-07	9.7E-09
679 UCART2	556249.05	3776992.85	556249.05, 3776992.85	4.16E-04	2.8E-07	9.4E-09
680 UCART2	556269.05	3776992.85	556269.05, 3776992.85	4.35E-04	2.9E-07	9.9E-09
681 UCART2	556289.05	3776992.85	556289.05, 3776992.85	4.51E-04	3.0E-07	1.0E-08
682 UCART2	556309.05	3776992.85	556309.05, 3776992.85	4.70E-04	3.1E-07	1.1E-08
683 UCART2	556329.05	3776992.85	556329.05, 3776992.85	4.81E-04	3.2E-07	1.1E-08
684 UCART2	556209.05	3777012.85	556209.05, 3777012.85	4.21E-04	2.8E-07	9.5E-09
685 UCART2	556229.05	3777012.85	556229.05, 3777012.85	4.38E-04	2.9E-07	9.9E-09
686 UCART2	556249.05	3777012.85	556249.05, 3777012.85	4.59E-04	3.0E-07	1.0E-08
687 UCART2	556269.05	3777012.85	556269.05, 3777012.85	4.82E-04	3.2E-07	1.1E-08
688 UCART2	556289.05	3777012.85	556289.05, 3777012.85	5.00E-04	3.3E-07	1.1E-08
689 UCART2	556309.05	3777012.85	556309.05, 3777012.85	4.94E-04	3.3E-07	1.1E-08
690 UCART2	556329.05	3777012.85	556329.05, 3777012.85	5.21E-04	3.4E-07	1.2E-08
691 UCART2	556209.05	3777032.85	556209.05, 3777032.85	4.32E-04	2.9E-07	9.8E-09
692 UCART2	556229.05	3777032.85	556229.05, 3777032.85	4.52E-04	3.0E-07	1.0E-08
693 UCART2	556249.05	3777032.85	556249.05, 3777032.85	4.74E-04	3.1E-07	1.1E-08
694 UCART2	556269.05	3777032.85	556269.05, 3777032.85	4.98E-04	3.3E-07	1.1E-08
695 UCART2	556289.05	3777032.85	556289.05, 3777032.85	5.25E-04	3.5E-07	1.2E-08
696 UCART2	556309.05	3777032.85	556309.05, 3777032.85	5.53E-04	3.7E-07	1.3E-08

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations	Worker Dose	Worker Risk
	X	Y	X, Y	Total	Operations	Operations
697	UCART2	556209.05	3777052.85 556209.05, 3777052.85	4.47E-04	3.0E-07	1.0E-08
698	UCART2	556229.05	3777052.85 556229.05, 3777052.85	4.68E-04	3.1E-07	1.1E-08
699	UCART2	556249.05	3777052.85 556249.05, 3777052.85	4.91E-04	3.3E-07	1.1E-08
700	UCART2	556269.05	3777052.85 556269.05, 3777052.85	5.16E-04	3.4E-07	1.2E-08
701	UCART2	556289.05	3777052.85 556289.05, 3777052.85	5.44E-04	3.6E-07	1.2E-08
702	UCART2	556309.05	3777052.85 556309.05, 3777052.85	5.74E-04	3.8E-07	1.3E-08
703	UCART2	556249.05	3777072.85 556249.05, 3777072.85	5.11E-04	3.4E-07	1.2E-08
704	UCART2	556269.05	3777072.85 556269.05, 3777072.85	5.38E-04	3.6E-07	1.2E-08
705	UCART2	556289.05	3777072.85 556289.05, 3777072.85	5.67E-04	3.8E-07	1.3E-08
706	UCART2	556269.05	3777092.85 556269.05, 3777092.85	5.64E-04	3.7E-07	1.3E-08
707	UCART1	556441.69	3776927.49 556441.69, 3776927.49	5.14E-04	3.4E-07	1.2E-08
708	UCART1	556461.69	3776927.49 556461.69, 3776927.49	5.27E-04	3.5E-07	1.2E-08
709	UCART1	556481.69	3776927.49 556481.69, 3776927.49	5.26E-04	3.5E-07	1.2E-08
710	UCART1	556421.69	3776947.49 556421.69, 3776947.49	5.46E-04	3.6E-07	1.2E-08
711	UCART1	556441.69	3776947.49 556441.69, 3776947.49	5.62E-04	3.7E-07	1.3E-08
712	UCART1	556461.69	3776947.49 556461.69, 3776947.49	5.88E-04	3.9E-07	1.3E-08
713	UCART1	556481.69	3776947.49 556481.69, 3776947.49	5.97E-04	4.0E-07	1.4E-08
714	UCART1	556401.69	3776967.49 556401.69, 3776967.49	5.40E-04	3.6E-07	1.2E-08
715	UCART1	556421.69	3776967.49 556421.69, 3776967.49	5.75E-04	3.8E-07	1.3E-08
716	UCART1	556441.69	3776967.49 556441.69, 3776967.49	6.00E-04	4.0E-07	1.4E-08
717	UCART1	556461.69	3776967.49 556461.69, 3776967.49	6.30E-04	4.2E-07	1.4E-08
718	UCART1	556481.69	3776967.49 556481.69, 3776967.49	6.68E-04	4.4E-07	1.5E-08
719	UCART1	556401.69	3776987.49 556401.69, 3776987.49	5.60E-04	3.7E-07	1.3E-08
720	UCART1	556421.69	3776987.49 556421.69, 3776987.49	5.92E-04	3.9E-07	1.3E-08
721	UCART1	556441.69	3776987.49 556441.69, 3776987.49	6.34E-04	4.2E-07	1.4E-08
722	UCART1	556461.69	3776987.49 556461.69, 3776987.49	6.76E-04	4.5E-07	1.5E-08
723	UCART1	556481.69	3776987.49 556481.69, 3776987.49	7.28E-04	4.8E-07	1.7E-08
724	UCART1	556421.69	3777007.49 556421.69, 3777007.49	6.16E-04	4.1E-07	1.4E-08
725	UCART1	556441.69	3777007.49 556441.69, 3777007.49	6.52E-04	4.3E-07	1.5E-08
726	UCART1	556461.69	3777007.49 556461.69, 3777007.49	7.00E-04	4.6E-07	1.6E-08
727	UCART1	556481.69	3777007.49 556481.69, 3777007.49	7.66E-04	5.1E-07	1.7E-08
728	UCART1	556441.69	3777027.49 556441.69, 3777027.49	6.86E-04	4.5E-07	1.6E-08
729	UCART1	556461.69	3777027.49 556461.69, 3777027.49	7.27E-04	4.8E-07	1.6E-08
730	UCART1	556481.69	3777027.49 556481.69, 3777027.49	7.97E-04	5.3E-07	1.8E-08
731	1	556251.24	3777154.95 556251.24, 3777154.95	6.34E-04	4.2E-07	1.4E-08
732	1	556261.28	3777141.2 556261.28, 3777141.2	6.34E-04	4.2E-07	1.4E-08
733	1	556264.98	3777168.16 556264.98, 3777168.16	6.77E-04	4.5E-07	1.5E-08
734	1	556279.25	3777151.77 556279.25, 3777151.77	6.83E-04	4.5E-07	1.5E-08
735	1	556202.6	3777113.45 556202.6, 3777113.45	5.12E-04	3.4E-07	1.2E-08
736	1	556220.05	3777109.75 556220.05, 3777109.75	5.30E-04	3.5E-07	1.2E-08
737	1	556187.53	3777090.19 556187.53, 3777090.19	4.70E-04	3.1E-07	1.1E-08
738	1	556164.27	3777121.38 556164.27, 3777121.38	4.76E-04	3.2E-07	1.1E-08
739	UCART1	557510.26	3776508.23 557510.26, 3776508.23	5.08E-04	3.4E-07	1.2E-08
740	UCART1	557530.26	3776508.23 557530.26, 3776508.23	4.93E-04	3.3E-07	1.1E-08
741	UCART1	557550.26	3776508.23 557550.26, 3776508.23	4.78E-04	3.2E-07	1.1E-08
742	UCART1	557570.26	3776508.23 557570.26, 3776508.23	4.63E-04	3.1E-07	1.0E-08
743	UCART1	557590.26	3776508.23 557590.26, 3776508.23	4.48E-04	3.0E-07	1.0E-08
744	UCART1	557610.26	3776508.23 557610.26, 3776508.23	4.34E-04	2.9E-07	9.9E-09
745	UCART1	557630.26	3776508.23 557630.26, 3776508.23	4.21E-04	2.8E-07	9.5E-09
746	UCART1	557650.26	3776508.23 557650.26, 3776508.23	4.07E-04	2.7E-07	9.2E-09
747	UCART1	557670.26	3776508.23 557670.26, 3776508.23	3.94E-04	2.6E-07	8.9E-09
748	UCART1	557690.26	3776508.23 557690.26, 3776508.23	3.81E-04	2.5E-07	8.6E-09
749	UCART1	557510.26	3776528.23 557510.26, 3776528.23	5.16E-04	3.4E-07	1.2E-08
750	UCART1	557530.26	3776528.23 557530.26, 3776528.23	5.00E-04	3.3E-07	1.1E-08
751	UCART1	557550.26	3776528.23 557550.26, 3776528.23	4.84E-04	3.2E-07	1.1E-08
752	UCART1	557570.26	3776528.23 557570.26, 3776528.23	4.67E-04	3.1E-07	1.1E-08
753	UCART1	557590.26	3776528.23 557590.26, 3776528.23	4.52E-04	3.0E-07	1.0E-08
754	UCART1	557610.26	3776528.23 557610.26, 3776528.23	4.37E-04	2.9E-07	9.9E-09

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
	X	Y	X, Y			
755 UCART1	557630.26	3776528.23	557630.26, 3776528.23	4.24E-04	2.8E-07	9.6E-09
756 UCART1	557650.26	3776528.23	557650.26, 3776528.23	4.10E-04	2.7E-07	9.3E-09
757 UCART1	557670.26	3776528.23	557670.26, 3776528.23	3.97E-04	2.6E-07	9.0E-09
758 UCART1	557690.26	3776528.23	557690.26, 3776528.23	3.84E-04	2.5E-07	8.7E-09
759 UCART1	557510.26	3776548.23	557510.26, 3776548.23	5.22E-04	3.5E-07	1.2E-08
760 UCART1	557530.26	3776548.23	557530.26, 3776548.23	5.05E-04	3.3E-07	1.1E-08
761 UCART1	557550.26	3776548.23	557550.26, 3776548.23	4.87E-04	3.2E-07	1.1E-08
762 UCART1	557570.26	3776548.23	557570.26, 3776548.23	4.70E-04	3.1E-07	1.1E-08
763 UCART1	557590.26	3776548.23	557590.26, 3776548.23	4.54E-04	3.0E-07	1.0E-08
764 UCART1	557610.26	3776548.23	557610.26, 3776548.23	4.39E-04	2.9E-07	1.0E-08
765 UCART1	557630.26	3776548.23	557630.26, 3776548.23	4.25E-04	2.8E-07	9.6E-09
766 UCART1	557650.26	3776548.23	557650.26, 3776548.23	4.12E-04	2.7E-07	9.3E-09
767 UCART1	557670.26	3776548.23	557670.26, 3776548.23	3.98E-04	2.6E-07	9.0E-09
768 UCART1	557690.26	3776548.23	557690.26, 3776548.23	3.86E-04	2.6E-07	8.8E-09
769 UCART1	557510.26	3776568.23	557510.26, 3776568.23	5.26E-04	3.5E-07	1.2E-08
770 UCART1	557530.26	3776568.23	557530.26, 3776568.23	5.09E-04	3.4E-07	1.2E-08
771 UCART1	557550.26	3776568.23	557550.26, 3776568.23	4.90E-04	3.2E-07	1.1E-08
772 UCART1	557570.26	3776568.23	557570.26, 3776568.23	4.71E-04	3.1E-07	1.1E-08
773 UCART1	557590.26	3776568.23	557590.26, 3776568.23	4.55E-04	3.0E-07	1.0E-08
774 UCART1	557610.26	3776568.23	557610.26, 3776568.23	4.40E-04	2.9E-07	1.0E-08
775 UCART1	557630.26	3776568.23	557630.26, 3776568.23	4.26E-04	2.8E-07	9.7E-09
776 UCART1	557650.26	3776568.23	557650.26, 3776568.23	4.13E-04	2.7E-07	9.4E-09
777 UCART1	557670.26	3776568.23	557670.26, 3776568.23	4.00E-04	2.6E-07	9.1E-09
778 UCART1	557690.26	3776568.23	557690.26, 3776568.23	3.87E-04	2.6E-07	8.8E-09
779 UCART1	557510.26	3776588.23	557510.26, 3776588.23	5.29E-04	3.5E-07	1.2E-08
780 UCART1	557530.26	3776588.23	557530.26, 3776588.23	5.11E-04	3.4E-07	1.2E-08
781 UCART1	557550.26	3776588.23	557550.26, 3776588.23	4.92E-04	3.3E-07	1.1E-08
782 UCART1	557570.26	3776588.23	557570.26, 3776588.23	4.72E-04	3.1E-07	1.1E-08
783 UCART1	557590.26	3776588.23	557590.26, 3776588.23	4.55E-04	3.0E-07	1.0E-08
784 UCART1	557610.26	3776588.23	557610.26, 3776588.23	4.39E-04	2.9E-07	1.0E-08
785 UCART1	557630.26	3776588.23	557630.26, 3776588.23	4.26E-04	2.8E-07	9.7E-09
786 UCART1	557650.26	3776588.23	557650.26, 3776588.23	4.14E-04	2.7E-07	9.4E-09
787 UCART1	557670.26	3776588.23	557670.26, 3776588.23	4.01E-04	2.7E-07	9.1E-09
788 UCART1	557690.26	3776588.23	557690.26, 3776588.23	3.89E-04	2.6E-07	8.8E-09
789 UCART1	557510.26	3776608.23	557510.26, 3776608.23	5.30E-04	3.5E-07	1.2E-08
790 UCART1	557530.26	3776608.23	557530.26, 3776608.23	5.11E-04	3.4E-07	1.2E-08
791 UCART1	557550.26	3776608.23	557550.26, 3776608.23	4.91E-04	3.3E-07	1.1E-08
792 UCART1	557570.26	3776608.23	557570.26, 3776608.23	4.72E-04	3.1E-07	1.1E-08
793 UCART1	557590.26	3776608.23	557590.26, 3776608.23	4.54E-04	3.0E-07	1.0E-08
794 UCART1	557610.26	3776608.23	557610.26, 3776608.23	4.38E-04	2.9E-07	9.9E-09
795 UCART1	557630.26	3776608.23	557630.26, 3776608.23	4.26E-04	2.8E-07	9.7E-09
796 UCART1	557650.26	3776608.23	557650.26, 3776608.23	4.13E-04	2.7E-07	9.4E-09
797 UCART1	557670.26	3776608.23	557670.26, 3776608.23	4.01E-04	2.7E-07	9.1E-09
798 UCART1	557690.26	3776608.23	557690.26, 3776608.23	3.89E-04	2.6E-07	8.8E-09
799 UCART1	557510.26	3776628.23	557510.26, 3776628.23	5.29E-04	3.5E-07	1.2E-08
800 UCART1	557530.26	3776628.23	557530.26, 3776628.23	5.10E-04	3.4E-07	1.2E-08
801 UCART1	557550.26	3776628.23	557550.26, 3776628.23	4.88E-04	3.2E-07	1.1E-08
802 UCART1	557570.26	3776628.23	557570.26, 3776628.23	4.73E-04	3.1E-07	1.1E-08
803 UCART1	557590.26	3776628.23	557590.26, 3776628.23	4.52E-04	3.0E-07	1.0E-08
804 UCART1	557610.26	3776628.23	557610.26, 3776628.23	4.37E-04	2.9E-07	9.9E-09
805 UCART1	557630.26	3776628.23	557630.26, 3776628.23	4.24E-04	2.8E-07	9.6E-09
806 UCART1	557650.26	3776628.23	557650.26, 3776628.23	4.12E-04	2.7E-07	9.4E-09
807 UCART1	557670.26	3776628.23	557670.26, 3776628.23	4.00E-04	2.6E-07	9.1E-09
808 UCART1	557690.26	3776628.23	557690.26, 3776628.23	3.89E-04	2.6E-07	8.8E-09
809 UCART1	557510.26	3776648.23	557510.26, 3776648.23	5.25E-04	3.5E-07	1.2E-08
810 UCART1	557530.26	3776648.23	557530.26, 3776648.23	5.04E-04	3.3E-07	1.1E-08
811 UCART1	557550.26	3776648.23	557550.26, 3776648.23	4.83E-04	3.2E-07	1.1E-08
812 UCART1	557570.26	3776648.23	557570.26, 3776648.23	4.62E-04	3.1E-07	1.0E-08

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
	X	Y	X, Y			
813 UCART1	557590.26	3776648.23	557590.26, 3776648.23	4.48E-04	3.0E-07	1.0E-08
814 UCART1	557610.26	3776648.23	557610.26, 3776648.23	4.32E-04	2.9E-07	9.8E-09
815 UCART1	557630.26	3776648.23	557630.26, 3776648.23	4.20E-04	2.8E-07	9.5E-09
816 UCART1	557650.26	3776648.23	557650.26, 3776648.23	4.10E-04	2.7E-07	9.3E-09
817 UCART1	557670.26	3776648.23	557670.26, 3776648.23	3.98E-04	2.6E-07	9.0E-09
818 UCART1	557690.26	3776648.23	557690.26, 3776648.23	3.87E-04	2.6E-07	8.8E-09
819 UCART1	557510.26	3776668.23	557510.26, 3776668.23	5.16E-04	3.4E-07	1.2E-08
820 UCART1	557530.26	3776668.23	557530.26, 3776668.23	4.96E-04	3.3E-07	1.1E-08
821 UCART1	557550.26	3776668.23	557550.26, 3776668.23	4.74E-04	3.1E-07	1.1E-08
822 UCART1	557570.26	3776668.23	557570.26, 3776668.23	4.55E-04	3.0E-07	1.0E-08
823 UCART1	557590.26	3776668.23	557590.26, 3776668.23	4.43E-04	2.9E-07	1.0E-08
824 UCART1	557610.26	3776668.23	557610.26, 3776668.23	4.24E-04	2.8E-07	9.6E-09
825 UCART1	557630.26	3776668.23	557630.26, 3776668.23	4.12E-04	2.7E-07	9.4E-09
826 UCART1	557650.26	3776668.23	557650.26, 3776668.23	4.04E-04	2.7E-07	9.2E-09
827 UCART1	557670.26	3776668.23	557670.26, 3776668.23	3.93E-04	2.6E-07	8.9E-09
828 UCART1	557690.26	3776668.23	557690.26, 3776668.23	3.83E-04	2.5E-07	8.7E-09
829 UCART1	557510.26	3776688.23	557510.26, 3776688.23	5.05E-04	3.3E-07	1.1E-08
830 UCART1	557530.26	3776688.23	557530.26, 3776688.23	4.44E-04	2.9E-07	1.0E-08
831 UCART1	557550.26	3776688.23	557550.26, 3776688.23	4.30E-04	2.8E-07	9.7E-09
832 UCART1	557570.26	3776688.23	557570.26, 3776688.23	4.16E-04	2.8E-07	9.4E-09
833 UCART1	557590.26	3776688.23	557590.26, 3776688.23	4.04E-04	2.7E-07	9.2E-09
834 UCART1	557610.26	3776688.23	557610.26, 3776688.23	3.92E-04	2.6E-07	8.9E-09
835 UCART1	557630.26	3776688.23	557630.26, 3776688.23	3.81E-04	2.5E-07	8.6E-09
836 UCART1	557650.26	3776688.23	557650.26, 3776688.23	3.70E-04	2.4E-07	8.4E-09
837 UCART1	557670.26	3776688.23	557670.26, 3776688.23	3.60E-04	2.4E-07	8.2E-09
838 UCART1	557690.26	3776688.23	557690.26, 3776688.23	3.50E-04	2.3E-07	7.9E-09
839 UCART1	556172.49	3776517.81	556172.49, 3776517.81	1.08E-04	7.1E-08	2.4E-09
840 UCART1	556192.49	3776517.81	556192.49, 3776517.81	1.13E-04	7.5E-08	2.6E-09
841 UCART1	556212.49	3776517.81	556212.49, 3776517.81	1.17E-04	7.7E-08	2.6E-09
842 UCART1	556232.49	3776517.81	556232.49, 3776517.81	1.21E-04	8.0E-08	2.7E-09
843 UCART1	556252.49	3776517.81	556252.49, 3776517.81	1.24E-04	8.2E-08	2.8E-09
844 UCART1	556272.49	3776517.81	556272.49, 3776517.81	1.28E-04	8.5E-08	2.9E-09
845 UCART1	556292.49	3776517.81	556292.49, 3776517.81	1.31E-04	8.6E-08	3.0E-09
846 UCART1	556312.49	3776517.81	556312.49, 3776517.81	1.32E-04	8.8E-08	3.0E-09
847 UCART1	556332.49	3776517.81	556332.49, 3776517.81	1.35E-04	9.0E-08	3.1E-09
848 UCART1	556352.49	3776517.81	556352.49, 3776517.81	1.37E-04	9.1E-08	3.1E-09
849 UCART1	556372.49	3776517.81	556372.49, 3776517.81	1.37E-04	9.1E-08	3.1E-09
850 UCART1	556392.49	3776517.81	556392.49, 3776517.81	1.42E-04	9.4E-08	3.2E-09
851 UCART1	556412.49	3776517.81	556412.49, 3776517.81	1.46E-04	9.7E-08	3.3E-09
852 UCART1	556432.49	3776517.81	556432.49, 3776517.81	1.51E-04	1.0E-07	3.4E-09
853 UCART1	556452.49	3776517.81	556452.49, 3776517.81	1.54E-04	1.0E-07	3.5E-09
854 UCART1	556472.49	3776517.81	556472.49, 3776517.81	1.61E-04	1.1E-07	3.7E-09
855 UCART1	556492.49	3776517.81	556492.49, 3776517.81	1.67E-04	1.1E-07	3.8E-09
856 UCART1	556172.49	3776537.81	556172.49, 3776537.81	1.09E-04	7.2E-08	2.5E-09
857 UCART1	556192.49	3776537.81	556192.49, 3776537.81	1.13E-04	7.5E-08	2.6E-09
858 UCART1	556212.49	3776537.81	556212.49, 3776537.81	1.18E-04	7.8E-08	2.7E-09
859 UCART1	556232.49	3776537.81	556232.49, 3776537.81	1.23E-04	8.1E-08	2.8E-09
860 UCART1	556252.49	3776537.81	556252.49, 3776537.81	1.27E-04	8.4E-08	2.9E-09
861 UCART1	556272.49	3776537.81	556272.49, 3776537.81	1.30E-04	8.6E-08	3.0E-09
862 UCART1	556292.49	3776537.81	556292.49, 3776537.81	1.35E-04	9.0E-08	3.1E-09
863 UCART1	556312.49	3776537.81	556312.49, 3776537.81	1.38E-04	9.1E-08	3.1E-09
864 UCART1	556332.49	3776537.81	556332.49, 3776537.81	1.42E-04	9.4E-08	3.2E-09
865 UCART1	556352.49	3776537.81	556352.49, 3776537.81	1.44E-04	9.5E-08	3.3E-09
866 UCART1	556372.49	3776537.81	556372.49, 3776537.81	1.44E-04	9.5E-08	3.3E-09
867 UCART1	556392.49	3776537.81	556392.49, 3776537.81	1.45E-04	9.6E-08	3.3E-09
868 UCART1	556412.49	3776537.81	556412.49, 3776537.81	1.51E-04	1.0E-07	3.4E-09
869 UCART1	556432.49	3776537.81	556432.49, 3776537.81	1.56E-04	1.0E-07	3.5E-09
870 UCART1	556452.49	3776537.81	556452.49, 3776537.81	1.60E-04	1.1E-07	3.6E-09

Worker Risk - Fueling

Discrete Receptor ID	X	Y	X, Y	Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
871 UCART1	556472.49	3776537.81	556472.49, 3776537.81	1.67E-04	1.1E-07	3.8E-09
872 UCART1	556492.49	3776537.81	556492.49, 3776537.81	1.74E-04	1.2E-07	4.0E-09
873 UCART1	556332.49	3776557.81	556332.49, 3776557.81	1.49E-04	9.9E-08	3.4E-09
874 UCART1	556352.49	3776557.81	556352.49, 3776557.81	1.50E-04	9.9E-08	3.4E-09
875 UCART1	556372.49	3776557.81	556372.49, 3776557.81	1.52E-04	1.0E-07	3.5E-09
876 UCART1	556392.49	3776557.81	556392.49, 3776557.81	1.53E-04	1.0E-07	3.5E-09
877 UCART1	556412.49	3776557.81	556412.49, 3776557.81	1.58E-04	1.0E-07	3.6E-09
878 UCART1	556432.49	3776557.81	556432.49, 3776557.81	1.63E-04	1.1E-07	3.7E-09
879 UCART1	556452.49	3776557.81	556452.49, 3776557.81	1.66E-04	1.1E-07	3.8E-09
880 UCART1	556472.49	3776557.81	556472.49, 3776557.81	1.73E-04	1.1E-07	3.9E-09
881 UCART1	556492.49	3776557.81	556492.49, 3776557.81	1.82E-04	1.2E-07	4.1E-09
882 UCART1	556332.49	3776577.81	556332.49, 3776577.81	1.55E-04	1.0E-07	3.5E-09
883 UCART1	556352.49	3776577.81	556352.49, 3776577.81	1.58E-04	1.0E-07	3.6E-09
884 UCART1	556372.49	3776577.81	556372.49, 3776577.81	1.61E-04	1.1E-07	3.6E-09
885 UCART1	556392.49	3776577.81	556392.49, 3776577.81	1.64E-04	1.1E-07	3.7E-09
886 UCART1	556412.49	3776577.81	556412.49, 3776577.81	1.67E-04	1.1E-07	3.8E-09
887 UCART1	556432.49	3776577.81	556432.49, 3776577.81	1.70E-04	1.1E-07	3.9E-09
888 UCART1	556452.49	3776577.81	556452.49, 3776577.81	1.75E-04	1.2E-07	4.0E-09
889 UCART1	556472.49	3776577.81	556472.49, 3776577.81	1.82E-04	1.2E-07	4.1E-09
890 UCART1	556492.49	3776577.81	556492.49, 3776577.81	1.90E-04	1.3E-07	4.3E-09
891 UCART1	556332.49	3776597.81	556332.49, 3776597.81	1.63E-04	1.1E-07	3.7E-09
892 UCART1	556352.49	3776597.81	556352.49, 3776597.81	1.67E-04	1.1E-07	3.8E-09
893 UCART1	556372.49	3776597.81	556372.49, 3776597.81	1.69E-04	1.1E-07	3.8E-09
894 UCART1	556392.49	3776597.81	556392.49, 3776597.81	1.70E-04	1.1E-07	3.9E-09
895 UCART1	556412.49	3776597.81	556412.49, 3776597.81	1.76E-04	1.2E-07	4.0E-09
896 UCART1	556432.49	3776597.81	556432.49, 3776597.81	1.78E-04	1.2E-07	4.0E-09
897 UCART1	556452.49	3776597.81	556452.49, 3776597.81	1.81E-04	1.2E-07	4.1E-09
898 UCART1	556472.49	3776597.81	556472.49, 3776597.81	1.87E-04	1.2E-07	4.3E-09
899 UCART1	556492.49	3776597.81	556492.49, 3776597.81	1.98E-04	1.3E-07	4.5E-09
900 UCART1	556252.49	3776617.81	556252.49, 3776617.81	1.41E-04	9.3E-08	3.2E-09
901 UCART1	556272.49	3776617.81	556272.49, 3776617.81	1.46E-04	9.7E-08	3.3E-09
902 UCART1	556292.49	3776617.81	556292.49, 3776617.81	1.53E-04	1.0E-07	3.5E-09
903 UCART1	556312.49	3776617.81	556312.49, 3776617.81	1.62E-04	1.1E-07	3.7E-09
904 UCART1	556332.49	3776617.81	556332.49, 3776617.81	1.66E-04	1.1E-07	3.8E-09
905 UCART1	556352.49	3776617.81	556352.49, 3776617.81	1.75E-04	1.2E-07	4.0E-09
906 UCART1	556372.49	3776617.81	556372.49, 3776617.81	1.80E-04	1.2E-07	4.1E-09
907 UCART1	556392.49	3776617.81	556392.49, 3776617.81	1.82E-04	1.2E-07	4.1E-09
908 UCART1	556412.49	3776617.81	556412.49, 3776617.81	1.86E-04	1.2E-07	4.2E-09
909 UCART1	556432.49	3776617.81	556432.49, 3776617.81	1.88E-04	1.2E-07	4.3E-09
910 UCART1	556452.49	3776617.81	556452.49, 3776617.81	1.93E-04	1.3E-07	4.4E-09
911 UCART1	556472.49	3776617.81	556472.49, 3776617.81	1.95E-04	1.3E-07	4.4E-09
912 UCART1	556492.49	3776617.81	556492.49, 3776617.81	2.07E-04	1.4E-07	4.7E-09
913 UCART1	556252.49	3776637.81	556252.49, 3776637.81	1.46E-04	9.7E-08	3.3E-09
914 UCART1	556272.49	3776637.81	556272.49, 3776637.81	1.53E-04	1.0E-07	3.5E-09
915 UCART1	556292.49	3776637.81	556292.49, 3776637.81	1.57E-04	1.0E-07	3.6E-09
916 UCART1	556312.49	3776637.81	556312.49, 3776637.81	1.64E-04	1.1E-07	3.7E-09
917 UCART1	556332.49	3776637.81	556332.49, 3776637.81	1.74E-04	1.1E-07	3.9E-09
918 UCART1	556352.49	3776637.81	556352.49, 3776637.81	1.81E-04	1.2E-07	4.1E-09
919 UCART1	556372.49	3776637.81	556372.49, 3776637.81	1.89E-04	1.3E-07	4.3E-09
920 UCART1	556392.49	3776637.81	556392.49, 3776637.81	1.92E-04	1.3E-07	4.4E-09
921 UCART1	556412.49	3776637.81	556412.49, 3776637.81	1.96E-04	1.3E-07	4.4E-09
922 UCART1	556432.49	3776637.81	556432.49, 3776637.81	1.99E-04	1.3E-07	4.5E-09
923 UCART1	556452.49	3776637.81	556452.49, 3776637.81	2.02E-04	1.3E-07	4.6E-09
924 UCART1	556472.49	3776637.81	556472.49, 3776637.81	2.07E-04	1.4E-07	4.7E-09
925 UCART1	556492.49	3776637.81	556492.49, 3776637.81	2.15E-04	1.4E-07	4.9E-09
926 UCART1	556252.49	3776657.81	556252.49, 3776657.81	1.54E-04	1.0E-07	3.5E-09
927 UCART1	556272.49	3776657.81	556272.49, 3776657.81	1.58E-04	1.0E-07	3.6E-09
928 UCART1	556292.49	3776657.81	556292.49, 3776657.81	1.64E-04	1.1E-07	3.7E-09

Worker Risk - Fueling

Discrete Receptor ID				Concentration [ug/m^3] Operations Total	Worker Dose Operations	Worker Risk Operations
	X	Y	X, Y			
929	UCART1	556312.49	3776657.81	556312.49, 3776657.81	1.67E-04	1.1E-07	3.8E-09
930	UCART1	556332.49	3776657.81	556332.49, 3776657.81	1.78E-04	1.2E-07	4.0E-09
931	UCART1	556352.49	3776657.81	556352.49, 3776657.81	1.88E-04	1.2E-07	4.3E-09
932	UCART1	556372.49	3776657.81	556372.49, 3776657.81	1.97E-04	1.3E-07	4.5E-09
933	UCART1	556392.49	3776657.81	556392.49, 3776657.81	2.01E-04	1.3E-07	4.5E-09
934	UCART1	556412.49	3776657.81	556412.49, 3776657.81	2.05E-04	1.4E-07	4.7E-09
935	UCART1	556432.49	3776657.81	556432.49, 3776657.81	2.09E-04	1.4E-07	4.7E-09
936	UCART1	556452.49	3776657.81	556452.49, 3776657.81	2.13E-04	1.4E-07	4.8E-09
937	UCART1	556472.49	3776657.81	556472.49, 3776657.81	2.17E-04	1.4E-07	4.9E-09
938	UCART1	556492.49	3776657.81	556492.49, 3776657.81	2.26E-04	1.5E-07	5.1E-09
939	UCART1	556252.49	3776677.81	556252.49, 3776677.81	1.63E-04	1.1E-07	3.7E-09
940	UCART1	556272.49	3776677.81	556272.49, 3776677.81	1.63E-04	1.1E-07	3.7E-09
941	UCART1	556292.49	3776677.81	556292.49, 3776677.81	1.68E-04	1.1E-07	3.8E-09
942	UCART1	556312.49	3776677.81	556312.49, 3776677.81	1.74E-04	1.2E-07	4.0E-09
943	UCART1	556332.49	3776677.81	556332.49, 3776677.81	1.83E-04	1.2E-07	4.1E-09
944	UCART1	556352.49	3776677.81	556352.49, 3776677.81	1.94E-04	1.3E-07	4.4E-09
945	UCART1	556372.49	3776677.81	556372.49, 3776677.81	2.03E-04	1.3E-07	4.6E-09
946	UCART1	556392.49	3776677.81	556392.49, 3776677.81	2.10E-04	1.4E-07	4.8E-09
947	UCART1	556412.49	3776677.81	556412.49, 3776677.81	2.18E-04	1.4E-07	4.9E-09
948	UCART1	556432.49	3776677.81	556432.49, 3776677.81	2.20E-04	1.5E-07	5.0E-09
949	UCART1	556452.49	3776677.81	556452.49, 3776677.81	2.24E-04	1.5E-07	5.1E-09
950	UCART1	556472.49	3776677.81	556472.49, 3776677.81	2.30E-04	1.5E-07	5.2E-09
951	UCART1	556492.49	3776677.81	556492.49, 3776677.81	2.38E-04	1.6E-07	5.4E-09
952	UCART1	556252.49	3776697.81	556252.49, 3776697.81	1.74E-04	1.2E-07	4.0E-09
953	UCART1	556272.49	3776697.81	556272.49, 3776697.81	1.74E-04	1.1E-07	3.9E-09
954	UCART1	556372.49	3776697.81	556372.49, 3776697.81	2.09E-04	1.4E-07	4.7E-09
955	UCART1	556392.49	3776697.81	556392.49, 3776697.81	2.15E-04	1.4E-07	4.9E-09
956	UCART1	556412.49	3776697.81	556412.49, 3776697.81	2.26E-04	1.5E-07	5.1E-09
957	UCART1	556432.49	3776697.81	556432.49, 3776697.81	2.31E-04	1.5E-07	5.3E-09
958	UCART1	556452.49	3776697.81	556452.49, 3776697.81	2.35E-04	1.6E-07	5.3E-09
959	UCART1	556472.49	3776697.81	556472.49, 3776697.81	2.42E-04	1.6E-07	5.5E-09
960	UCART1	556492.49	3776697.81	556492.49, 3776697.81	2.51E-04	1.7E-07	5.7E-09
961	UCART1	556252.49	3776717.81	556252.49, 3776717.81	1.83E-04	1.2E-07	4.2E-09
962	UCART1	556272.49	3776717.81	556272.49, 3776717.81	1.85E-04	1.2E-07	4.2E-09
963	UCART1	556372.49	3776717.81	556372.49, 3776717.81	2.15E-04	1.4E-07	4.9E-09
964	UCART1	556392.49	3776717.81	556392.49, 3776717.81	2.21E-04	1.5E-07	5.0E-09
965	UCART1	556412.49	3776717.81	556412.49, 3776717.81	2.34E-04	1.5E-07	5.3E-09
966	UCART1	556432.49	3776717.81	556432.49, 3776717.81	2.42E-04	1.6E-07	5.5E-09
967	UCART1	556452.49	3776717.81	556452.49, 3776717.81	2.48E-04	1.6E-07	5.6E-09
968	UCART1	556472.49	3776717.81	556472.49, 3776717.81	2.61E-04	1.7E-07	5.9E-09
969	UCART1	556492.49	3776717.81	556492.49, 3776717.81	2.65E-04	1.8E-07	6.0E-09
970	1	556267.4	3776875.81	556267.4, 3776875.81	3.45E-04	2.3E-07	7.8E-09
971	1	556239.03	3776853.02	556239.03, 3776853.02	3.10E-04	2.0E-07	7.0E-09
972	1	556178.76	3776751.21	556178.76, 3776751.21	2.24E-04	1.5E-07	5.1E-09
973	1	556154.45	3776774.51	556154.45, 3776774.51	2.35E-04	1.6E-07	5.3E-09
974	1	556119.5	3776705.11	556119.5, 3776705.11	1.86E-04	1.2E-07	4.2E-09
975	1	556146.51	3777267.93	556146.51, 3777267.93	5.78E-04	3.8E-07	1.3E-08
976	1	556151	3777234.88	556151, 3777234.88	5.55E-04	3.7E-07	1.3E-08
977	1	556144.93	3777179.58	556144.93, 3777179.58	5.02E-04	3.3E-07	1.1E-08
978	1	556205.18	3777236.46	556205.18, 3777236.46	6.45E-04	4.3E-07	1.5E-08
979	1	556218	3777200.04	556218, 3777200.04	6.28E-04	4.2E-07	1.4E-08
980	1	556774.37	3777347.57	556774.37, 3777347.57	7.54E-03	5.0E-06	1.7E-07

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
1	1	556521.7	3777342	556521.71, 3777341.57	809.8355	907.08063	688.21317	688.1952	7.86E-02	1.57E-01	2.23E-02	3.56E-03	2.61E-01
2	1	556539.9	3777345	556539.9, 3777344.94	846.0608	946.63929	740.64661	740.3644	8.21E-02	1.63E-01	2.40E-02	3.83E-03	2.73E-01
3	1	556591.8	3777345	556591.78, 3777345.39	1072.263	1196.21828	887.9522	887.6398	1.04E-01	2.06E-01	2.87E-02	4.60E-03	3.44E-01
4	1	556630.6	3777350	556630.62, 3777349.66	1223.43	1364.5383	1085.72445	1086.12	1.19E-01	2.36E-01	3.51E-02	5.62E-03	3.95E-01
5	1	556684.3	3777349	556684.29, 3777349.43	1415.403	1570.45823	1345.00329	1345.641	1.37E-01	2.71E-01	4.35E-02	6.97E-03	4.59E-01
6	1	556905.6	3777351	556905.58, 3777351.19	1156.83	1266.11641	1297.22678	1298.38	1.12E-01	2.19E-01	4.20E-02	6.72E-03	3.80E-01
7	1	556920.9	3777351	556920.93, 3777350.82	1104.082	1210.1861	1230.75132	1232.003	1.07E-01	2.09E-01	3.98E-02	6.38E-03	3.62E-01
8	1	556942.9	3777350	556942.87, 3777350.09	1018.058	1115.18544	982.18682	984.8122	9.88E-02	1.92E-01	3.18E-02	5.10E-03	3.28E-01
9	1	556996.3	3777348	556996.26, 3777348.26	617.105	685.35788	569.12933	569.6908	5.99E-02	1.18E-01	1.84E-02	2.95E-03	2.00E-01
10	1	557096.8	3777358	557096.81, 3777357.77	364.735	397.62297	396.83606	397.0724	3.54E-02	6.86E-02	1.28E-02	2.06E-03	1.19E-01
11	1	557115.8	3777364	557115.83, 3777363.62	359.4047	387.77755	369.40027	369.6312	3.49E-02	6.69E-02	1.20E-02	1.91E-03	1.16E-01
12	1	557129.4	3777361	557129.36, 3777361.43	374.7708	413.81798	358.89814	359.1542	3.64E-02	7.14E-02	1.16E-02	1.86E-03	1.21E-01
13	1	557230.7	3777364	557230.65, 3777363.99	301.6941	336.25404	260.53371	260.6959	2.93E-02	5.80E-02	8.43E-03	1.35E-03	9.71E-02
14	1	556466.2	3776816	556466.22, 3776816.07	545.3304	602.25574	436.44187	436.0826	5.29E-02	1.04E-01	1.41E-02	2.26E-03	1.73E-01
15	1	556407.9	3776826	556407.87, 3776826.19	497.5015	550.00985	413.90364	413.4803	4.83E-02	9.49E-02	1.34E-02	2.14E-03	1.59E-01
16	1	556381.1	3776807	556381.07, 3776807.14	463.2964	510.99227	383.946	383.5344	4.50E-02	8.82E-02	1.24E-02	1.99E-03	1.48E-01
17	1	556404.3	3776772	556404.29, 3776771.52	466.0097	509.84719	367.31796	367.0133	4.52E-02	8.80E-02	1.19E-02	1.90E-03	1.47E-01
18	1	556465.2	3776740	556465.21, 3776739.51	484.2023	537.12256	358.43486	358.262	4.70E-02	9.27E-02	1.16E-02	1.86E-03	1.53E-01
19	1	556396.1	3776740	556396.1, 3776739.93	449.1578	498.2489	355.39723	355.1642	4.36E-02	8.60E-02	1.15E-02	1.84E-03	1.43E-01
20	1	556324	3777265	556323.99, 3777265.43	491.5054	550.99469	390.76916	390.6275	4.77E-02	9.51E-02	1.26E-02	2.02E-03	1.57E-01
21	1	556330.6	3777234	556330.6, 3777233.99	506.4269	568.2214	401.51682	401.3912	4.92E-02	9.81E-02	1.30E-02	2.08E-03	1.62E-01
22	1	556321.1	3777200	556321.08, 3777200.43	494.2724	553.88112	389.96112	389.8781	4.80E-02	9.56E-02	1.26E-02	2.02E-03	1.58E-01
23	1	556275.1	3777268	556275.11, 3777267.81	438.0573	491.9144	348.36464	348.2842	4.25E-02	8.49E-02	1.13E-02	1.80E-03	1.41E-01
24	1	556278.3	3777233	556278.28, 3777233.46	444.3284	498.18751	354.38407	354.2748	4.31E-02	8.60E-02	1.15E-02	1.83E-03	1.42E-01
25	UCART1	556509.4	3777373	556509.4, 3777373.38	742.5729	829.16776	624.48772	624.3062	7.21E-02	1.43E-01	2.02E-02	3.23E-03	2.39E-01
26	UCART1	556529.4	3777373	556529.4, 3777373.38	828.1264	926.98746	657.9781	657.6614	8.04E-02	1.60E-01	2.13E-02	3.41E-03	2.65E-01
27	UCART1	556549.4	3777373	556549.4, 3777373.38	861.2676	960.31992	727.53147	726.8616	8.36E-02	1.66E-01	2.35E-02	3.76E-03	2.77E-01
28	UCART1	556569.4	3777373	556569.4, 3777373.38	884.4324	991.20904	812.90923	812.5941	8.59E-02	1.71E-01	2.63E-02	4.21E-03	2.87E-01
29	UCART1	556589.4	3777373	556589.4, 3777373.38	981.2636	1093.14271	866.02816	866.2403	9.53E-02	1.89E-01	2.80E-02	4.49E-03	3.16E-01
30	UCART1	556609.4	3777373	556609.4, 3777373.38	1038.339	1160.34158	889.91848	889.6347	1.01E-01	2.00E-01	2.88E-02	4.61E-03	3.34E-01
31	UCART1	556629.4	3777373	556629.4, 3777373.38	1062.843	1185.96632	1019.07825	1018.822	1.03E-01	2.05E-01	3.30E-02	5.28E-03	3.46E-01
32	UCART1	556649.4	3777373	556649.4, 3777373.38	1132.994	1253.57665	1071.49504	1071.549	1.10E-01	2.16E-01	3.47E-02	5.55E-03	3.67E-01
33	UCART1	556669.4	3777373	556669.4, 3777373.38	1209.427	1339.54115	1105.13421	1105.633	1.17E-01	2.31E-01	3.58E-02	5.72E-03	3.90E-01
34	UCART1	556689.4	3777373	556689.4, 3777373.38	1312.578	1450.60347	1258.78263	1259.187	1.27E-01	2.50E-01	4.07E-02	6.52E-03	4.25E-01
35	UCART1	556709.4	3777373	556709.4, 3777373.38	1323.617	1462.14539	1369.73688	1368.719	1.29E-01	2.52E-01	4.43E-02	7.09E-03	4.32E-01
36	UCART1	556729.4	3777373	556729.4, 3777373.38	1409.229	1550.32609	1421.64225	1423.838	1.37E-01	2.68E-01	4.60E-02	7.37E-03	4.58E-01
37	UCART1	556749.4	3777373	556749.4, 3777373.38	1302.526	1400.06272	1574.97325	1574.821	1.26E-01	2.42E-01	5.10E-02	8.15E-03	4.27E-01
38	UCART1	556769.4	3777373	556769.4, 3777373.38	914.1767	1000.18899	1409.53956	1414.065	8.88E-02	1.73E-01	4.56E-02	7.32E-03	3.14E-01
39	UCART1	556789.4	3777373	556789.4, 3777373.38	950.4665	1039.8511	997.89022	997.2067	9.23E-02	1.79E-01	3.23E-02	5.16E-03	3.09E-01
40	UCART1	556809.4	3777373	556809.4, 3777373.38	981.5803	1073.29014	1055.08423	1055.042	9.53E-02	1.85E-01	3.41E-02	5.46E-03	3.20E-01
41	UCART1	556829.4	3777373	556829.4, 3777373.38	978.6273	1069.23395	1077.94665	1078.379	9.50E-02	1.85E-01	3.49E-02	5.58E-03	3.20E-01
42	UCART1	556849.4	3777373	556849.4, 3777373.38	1012.18	1106.83827	1119.25378	1119.858	9.83E-02	1.91E-01	3.62E-02	5.80E-03	3.31E-01
43	UCART1	556869.4	3777373	556869.4, 3777373.38	1060.799	1158.8713	1177.94971	1179.234	1.03E-01	2.00E-01	3.81E-02	6.11E-03	3.47E-01
44	UCART1	556889.4	3777373	556889.4, 3777373.38	1037.196	1135.35378	1133.73976	1135.363	1.01E-01	1.96E-01	3.67E-02	5.88E-03	3.39E-01
45	UCART1	556909.4	3777373	556909.4, 3777373.38	992.2873	1088.99959	1071.05214	1072.044	9.63E-02	1.88E-01	3.47E-02	5.55E-03	3.25E-01
46	UCART1	556929.4	3777373	556929.4, 3777373.38	940.215	1033.26817	1002.74977	1003.382	9.13E-02	1.78E-01	3.25E-02	5.20E-03	3.07E-01
47	UCART1	556949.4	3777373	556949.4, 3777373.38	904.5161	999.48224	883.89516	885.5544	8.78E-02	1.73E-01	2.86E-02	4.59E-03	2.94E-01
48	UCART1	556969.4	3777373	556969.4, 3777373.38	715.3206	770.47409	645.11222	646.7319	6.94E-02	1.33E-01	2.09E-02	3.35E-03	2.27E-01
49	UCART1	556989.4	3777373	556989.4, 3777373.38	498.7698	550.7668	531.46062	531.8234	4.84E-02	9.51E-02	1.72E-02	2.75E-03	1.63E-01
50	UCART1	557009.4	3777373	557009.4, 3777373.38	521.1314	579.3268	483.20107	483.7761	5.06E-02	1.00E-01	1.56E-02	2.50E-03	1.69E-01
51	UCART1	557029.4	3777373	557029.4, 3777373.38	472.3137	526.28894	433.58381	433.9942	4.59E-02	9.08E-02	1.40E-02	2.25E-03	1.53E-01
52	UCART1	557049.4	3777373	557049.4, 3777373.38	437.6518	487.94864	380.76329	381.2179	4.25E-02	8.42E-02	1.23E-02	1.97E-03	1.41E-01
53	UCART1	557069.4	3777373	557069.4, 3777373.38	383.475	421.38538	342.423	342.678	3.72E-02	7.27E-02	1.11E-02	1.77E-03	1.23E-01
54	UCART1	557089.4	3777373	557089.4, 3777373.38	351.5494	391.75989	343.8209	343.9529	3.41E-02	6.76E-02	1.11E-02	1.78E-03	1.15E-01
55	UCART1	557109.4	3777373	557109.4, 3777373.38	331.3208	370.60751	344.13401	344.313	3.22E-02	6.40E-02	1.11E-02	1.78E-03	1.09E-01
56	UCART1	557129.4	3777373	557129.4, 3777373.38	330.0205	354.87237	339.15301	339.346	3.20E-02	6.13E-02	1.10E-02	1.76E-03	1.06E-01
57	UCART1	557149.4	3777373	557149.4, 3777373.38	340.8771	376.47503	323.88582	324.0985	3.31E-02	6.50E-02	1.05E-02	1.68E-03	1.10E-01
58	UCART1	557169.4	3777373	557169.4, 3777373.38	340.7368	378.85509	301.60718	301.8225	3.31E-02	6.54E-02	9.76E-03	1.56E-03	1.10E-01
59	UCART1	557189.4	3777373	557189.4, 3777373.38	333.0296	373.83434	280.7561	280.903	3.23E-02	6.45E-02	9.09E-03	1.45E-03	1.07E-01
60	UCART1	557209.4	3777373	557209.4, 3777373.38	313.1737	351.14083	272.59847	272.7508	3.04E-02	6.06E-02	8.82E-03	1.41E-03	1.01E-01
61	UCART1	557229.4	3777373	557229.4, 3777373.38	284.6267	316.65198	259.49797	259.6483	2.76E-02	5.47E-02	8.40E-03	1.34E-03	9.20E-02
62	UCART1	557249.4	3777373	557249.4, 3777373.38	280.8331	312.64523	243.37777	243.5212	2.73E-02	5.40E-02	7.88E-03	1.26E-03	9.04E-02
63	UCART1	557269.4	3777373	557269.4, 3777373.38	273.1666	306.56279	225.51329	225.6465	2.65E-02	5.29E-02	7.30E-03	1.17E-03	8.79E-02
64	UCART1	557289.4	3777373	557289.4, 3777373.38	260.9701	293.35482	213.75115	213.8584	2.53E-02	5.06E-02	6.92E-03	1.11E-03	8.40E-02
65	UCART1	557309.4	3777373	557309.4, 3777373.38	245.0988	274.46539	205.1817	205.2839	2.38E-02	4.74E-02	6.64E-03	1.06E-03	7.89E-02

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
66 UCART1	557329.4	3777373	557329.4, 3777373.38	227.9936	255.36273	194.57842	194.674	2.21E-02	4.41E-02	6.30E-03	1.01E-03	7.35E-02
67 UCART1	557349.4	3777373	557349.4, 3777373.38	219.6612	245.50652	184.83379	184.9205	2.13E-02	4.24E-02	5.98E-03	9.58E-04	7.06E-02
68 UCART1	557369.4	3777373	557369.4, 3777373.38	212.7641	238.83135	177.23423	177.3157	2.07E-02	4.12E-02	5.74E-03	9.18E-04	6.85E-02
69 UCART1	557389.4	3777373	557389.4, 3777373.38	203.9781	229.2189	169.19855	169.2745	1.98E-02	3.96E-02	5.48E-03	8.77E-04	6.57E-02
70 UCART1	557409.4	3777373	557409.4, 3777373.38	193.817	217.4216	160.91542	160.9857	1.88E-02	3.75E-02	5.21E-03	8.34E-04	6.24E-02
71 UCART1	557429.4	3777373	557429.4, 3777373.38	186.4263	209.25709	153.04983	153.1141	1.81E-02	3.61E-02	4.95E-03	7.93E-04	6.00E-02
72 UCART1	557449.4	3777373	557449.4, 3777373.38	179.899	202.26692	147.16998	147.2299	1.75E-02	3.49E-02	4.76E-03	7.62E-04	5.79E-02
73 UCART1	557469.4	3777373	557469.4, 3777373.38	172.0175	193.31861	140.78357	140.8391	1.67E-02	3.34E-02	4.56E-03	7.29E-04	5.54E-02
74 UCART1	557489.4	3777373	557489.4, 3777373.38	162.5963	182.31394	133.58262	133.6336	1.58E-02	3.15E-02	4.32E-03	6.92E-04	5.23E-02
75 UCART1	556509.4	3777393	556509.4, 3777393.38	749.5035	839.27474	606.53529	605.9717	7.28E-02	1.45E-01	1.96E-02	3.14E-03	2.40E-01
76 UCART1	556529.4	3777393	556529.4, 3777393.38	753.8086	845.00455	676.5232	676.1926	7.32E-02	1.46E-01	2.19E-02	3.50E-03	2.44E-01
77 UCART1	556549.4	3777393	556549.4, 3777393.38	793.5668	888.72117	724.80357	724.8233	7.70E-02	1.53E-01	2.35E-02	3.75E-03	2.58E-01
78 UCART1	556569.4	3777393	556569.4, 3777393.38	881.0572	986.11142	735.73426	736.2089	8.55E-02	1.70E-01	2.38E-02	3.81E-03	2.83E-01
79 UCART1	556589.4	3777393	556589.4, 3777393.38	919.8	1028.7409	809.33541	808.6783	8.93E-02	1.78E-01	2.62E-02	4.19E-03	2.97E-01
80 UCART1	556609.4	3777393	556609.4, 3777393.38	938.8758	1048.97208	888.01282	888.1207	9.12E-02	1.81E-01	2.87E-02	4.60E-03	3.06E-01
81 UCART1	556629.4	3777393	556629.4, 3777393.38	1008.388	1117.64405	931.06733	931.3308	9.79E-02	1.93E-01	3.01E-02	4.82E-03	3.26E-01
82 UCART1	556649.4	3777393	556649.4, 3777393.38	1055.713	1174.53287	955.01075	953.9425	1.02E-01	2.03E-01	3.09E-02	4.94E-03	3.41E-01
83 UCART1	556669.4	3777393	556669.4, 3777393.38	1122.801	1242.42147	1065.91084	1066.228	1.09E-01	2.14E-01	3.45E-02	5.52E-03	3.63E-01
84 UCART1	556689.4	3777393	556689.4, 3777393.38	1155.449	1271.3183	1142.62304	1142.617	1.12E-01	2.19E-01	3.70E-02	5.92E-03	3.75E-01
85 UCART1	556709.4	3777393	556709.4, 3777393.38	1210.968	1339.16203	1229.07974	1230.215	1.18E-01	2.31E-01	3.98E-02	6.37E-03	3.95E-01
86 UCART1	556729.4	3777393	556729.4, 3777393.38	1248.551	1369.21888	1289.49877	1288.857	1.21E-01	2.36E-01	4.17E-02	6.67E-03	4.06E-01
87 UCART1	556749.4	3777393	556749.4, 3777393.38	937.2945	970.25153	1338.83187	1340.898	9.10E-02	1.67E-01	4.33E-02	6.94E-03	3.09E-01
88 UCART1	556769.4	3777393	556769.4, 3777393.38	806.8774	880.64337	988.28622	992.8291	7.83E-02	1.52E-01	3.20E-02	5.14E-03	2.67E-01
89 UCART1	556789.4	3777393	556789.4, 3777393.38	821.8779	896.34708	878.21249	878.317	7.98E-02	1.55E-01	2.84E-02	4.55E-03	2.67E-01
90 UCART1	556809.4	3777393	556809.4, 3777393.38	861.4308	944.21032	903.32367	903.1381	8.36E-02	1.63E-01	2.92E-02	4.68E-03	2.81E-01
91 UCART1	556829.4	3777393	556829.4, 3777393.38	856.7176	938.11395	915.34761	915.6197	8.32E-02	1.62E-01	2.96E-02	4.74E-03	2.79E-01
92 UCART1	556849.4	3777393	556849.4, 3777393.38	886.9525	973.30996	942.13201	942.6039	8.61E-02	1.68E-01	3.05E-02	4.88E-03	2.89E-01
93 UCART1	556869.4	3777393	556869.4, 3777393.38	918.543	1005.92898	993.30277	993.9947	8.92E-02	1.74E-01	3.21E-02	5.15E-03	3.00E-01
94 UCART1	556889.4	3777393	556889.4, 3777393.38	924.8033	1015.93283	981.69551	982.4804	8.98E-02	1.75E-01	3.18E-02	5.09E-03	3.02E-01
95 UCART1	556909.4	3777393	556909.4, 3777393.38	878.2901	964.95425	927.4878	928.2288	8.53E-02	1.67E-01	3.00E-02	4.81E-03	2.87E-01
96 UCART1	556929.4	3777393	556929.4, 3777393.38	857.2505	946.79982	867.74972	868.8387	8.32E-02	1.63E-01	2.81E-02	4.50E-03	2.79E-01
97 UCART1	556949.4	3777393	556949.4, 3777393.38	820.3633	907.35575	817.40626	818.4585	7.96E-02	1.57E-01	2.65E-02	4.24E-03	2.67E-01
98 UCART1	556969.4	3777393	556969.4, 3777393.38	737.4773	808.24853	678.11608	679.5779	7.16E-02	1.40E-01	2.19E-02	3.52E-03	2.37E-01
99 UCART1	556989.4	3777393	556989.4, 3777393.38	550.601	580.44827	492.19615	493.4415	5.35E-02	1.00E-01	1.59E-02	2.56E-03	1.72E-01
100 UCART1	557009.4	3777393	557009.4, 3777393.38	443.0193	482.53025	448.74682	449.0483	4.30E-02	8.33E-02	1.45E-02	2.33E-03	1.43E-01
101 UCART1	557029.4	3777393	557029.4, 3777393.38	451.9359	503.45234	408.40391	408.8503	4.39E-02	8.69E-02	1.32E-02	2.12E-03	1.46E-01
102 UCART1	557049.4	3777393	557049.4, 3777393.38	409.7121	457.03978	370.21195	370.519	3.98E-02	7.89E-02	1.20E-02	1.92E-03	1.33E-01
103 UCART1	557069.4	3777393	557069.4, 3777393.38	381.7854	426.06487	331.12212	331.471	3.71E-02	7.35E-02	1.07E-02	1.72E-03	1.23E-01
104 UCART1	557089.4	3777393	557089.4, 3777393.38	341.6578	376.8903	295.80148	295.9816	3.32E-02	6.51E-02	9.57E-03	1.53E-03	1.09E-01
105 UCART1	557109.4	3777393	557109.4, 3777393.38	308.8828	345.27901	284.80715	284.8762	3.00E-02	5.96E-02	9.22E-03	1.48E-03	1.00E-01
106 UCART1	557129.4	3777393	557129.4, 3777393.38	295.4333	330.83922	290.9634	291.0802	2.87E-02	5.71E-02	9.42E-03	1.51E-03	9.67E-02
107 UCART1	557149.4	3777393	557149.4, 3777393.38	274.4497	304.54801	290.21968	290.3443	2.66E-02	5.26E-02	9.39E-03	1.50E-03	9.01E-02
108 UCART1	557169.4	3777393	557169.4, 3777393.38	290.1247	315.69193	284.62533	284.7756	2.82E-02	5.45E-02	9.21E-03	1.47E-03	9.33E-02
109 UCART1	557189.4	3777393	557189.4, 3777393.38	294.8562	327.49024	272.11308	272.2758	2.86E-02	5.65E-02	8.81E-03	1.41E-03	9.54E-02
110 UCART1	557209.4	3777393	557209.4, 3777393.38	295.348	329.4251	255.89006	256.0554	2.87E-02	5.69E-02	8.28E-03	1.33E-03	9.51E-02
111 UCART1	557229.4	3777393	557229.4, 3777393.38	287.5906	323.0293	238.63026	238.7402	2.79E-02	5.58E-02	7.72E-03	1.24E-03	9.26E-02
112 UCART1	557249.4	3777393	557249.4, 3777393.38	269.8592	302.50325	232.3245	232.4393	2.62E-02	5.22E-02	7.52E-03	1.20E-03	8.71E-02
113 UCART1	557269.4	3777393	557269.4, 3777393.38	247.0237	274.95847	223.36299	223.4781	2.40E-02	4.75E-02	7.23E-03	1.16E-03	7.98E-02
114 UCART1	557289.4	3777393	557289.4, 3777393.38	242.9843	269.85787	211.86907	211.9809	2.36E-02	4.66E-02	6.86E-03	1.10E-03	7.81E-02
115 UCART1	557309.4	3777393	557309.4, 3777393.38	237.8967	266.60761	198.18253	198.2882	2.31E-02	4.60E-02	6.41E-03	1.03E-03	7.66E-02
116 UCART1	557329.4	3777393	557329.4, 3777393.38	230.243	258.85964	185.69652	185.7932	2.24E-02	4.47E-02	6.01E-03	9.62E-04	7.40E-02
117 UCART1	557349.4	3777393	557349.4, 3777393.38	218.4127	245.13542	179.34641	179.427	2.12E-02	4.23E-02	5.80E-03	9.29E-04	7.02E-02
118 UCART1	557369.4	3777393	557369.4, 3777393.38	204.5199	229.48838	172.59866	172.6758	1.99E-02	3.96E-02	5.59E-03	8.94E-04	6.59E-02
119 UCART1	557389.4	3777393	557389.4, 3777393.38	192.9201	215.59686	165.09355	165.1664	1.87E-02	3.72E-02	5.34E-03	8.55E-04	6.21E-02
120 UCART1	557409.4	3777393	557409.4, 3777393.38	188.2806	210.70611	156.74261	156.8088	1.83E-02	3.64E-02	5.07E-03	8.12E-04	6.05E-02
121 UCART1	557429.4	3777393	557429.4, 3777393.38	182.5393	204.98553	151.03363	151.0963	1.77E-02	3.54E-02	4.89E-03	7.82E-04	5.88E-02
122 UCART1	557449.4	3777393	557449.4, 3777393.38	175.7282	197.46891	145.21304	145.2721	1.71E-02	3.41E-02	4.70E-03	7.52E-04	5.66E-02
123 UCART1	557469.4	3777393	557469.4, 3777393.38	167.209	187.57408	138.56495	138.62	1.62E-02	3.24E-02	4.48E-03	7.18E-04	5.38E-02
124 UCART1	557489.4	3777393	557489.4, 3777393.38	160.6835	180.28728	131.33719	131.3881	1.56E-02	3.11E-02	4.25E-03	6.80E-04	5.16E-02
125 UCART1	556509.4	3777413	556509.4, 3777413.38	683.0468	766.39011	618.82385	618.7407	6.63E-02	1.32E-01	2.00E-02	3.20E-03	2.22E-01
126 UCART1	556529.4	3777413	556529.4, 3777413.38	734.3359	815.2036	640.00133	640.2325	7.13E-02	1.41E-01	2.07E-02	3.32E-03	2.36E-01
127 UCART1	556549.4	3777413	556549.4, 3777413.38	796.9816	892.16726	657.15435	657.1259	7.74E-02	1.54E-01	2.13E-02	3.40E-03	2.56E-01
128 UCART1	556569.4	3777413	556569.4, 3777413.38	826.2317	924.44133	737.29976	736.964	8.02E-02	1.60E-01	2.39E-02	3.82E-03	2.67E-01
129 UCART1	556589.4	3777413	556589.4, 3777413.38	839.5687	938.09136	780.66548	780.9768	8.15E-02	1.62E-01	2.53E-02	4.04E-03	2.73E-01
130 UCART1	556609.4	3777413	556609.4, 3777413.38	900.2175	999.43694	810.48076	810.8629	8.74E-02	1.73E-01	2.62E-02	4.20E-03	2.90E-01

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
131 UCART1	556629.4	3777413	556629.4, 3777413.38	946.5437	1054.58634	846.89602	846.0688	9.19E-02	1.82E-01	2.74E-02	4.38E-03	3.06E-01
132 UCART1	556649.4	3777413	556649.4, 3777413.38	997.7144	1108.11623	929.97889	930.2202	9.69E-02	1.91E-01	3.01E-02	4.82E-03	3.23E-01
133 UCART1	556669.4	3777413	556669.4, 3777413.38	1050.432	1163.77039	989.25163	989.5559	1.02E-01	2.01E-01	3.20E-02	5.12E-03	3.40E-01
134 UCART1	556689.4	3777413	556689.4, 3777413.38	1064.183	1179.36515	1065.65113	1066.167	1.03E-01	2.04E-01	3.45E-02	5.52E-03	3.47E-01
135 UCART1	556709.4	3777413	556709.4, 3777413.38	1132.08	1251.00986	1087.76616	1087.623	1.10E-01	2.16E-01	3.52E-02	5.63E-03	3.67E-01
136 UCART1	556729.4	3777413	556729.4, 3777413.38	998.6587	1069.61462	1176.40488	1176.901	9.70E-02	1.85E-01	3.81E-02	6.09E-03	3.26E-01
137 UCART1	556749.4	3777413	556749.4, 3777413.38	719.383	793.05231	1032.95195	1035.91	6.98E-02	1.37E-01	3.34E-02	5.36E-03	2.46E-01
138 UCART1	556769.4	3777413	556769.4, 3777413.38	747.4409	822.83143	724.29533	724.9889	7.26E-02	1.42E-01	2.34E-02	3.75E-03	2.42E-01
139 UCART1	556789.4	3777413	556789.4, 3777413.38	754.7861	829.4544	761.92134	762.4705	7.33E-02	1.43E-01	2.47E-02	3.95E-03	2.45E-01
140 UCART1	556809.4	3777413	556809.4, 3777413.38	758.6632	831.0354	793.63524	793.8165	7.37E-02	1.43E-01	2.57E-02	4.11E-03	2.47E-01
141 UCART1	556829.4	3777413	556829.4, 3777413.38	764.7852	840.29813	791.86892	792.2552	7.43E-02	1.45E-01	2.56E-02	4.10E-03	2.49E-01
142 UCART1	556849.4	3777413	556849.4, 3777413.38	791.5759	870.8849	815.6554	816.0312	7.69E-02	1.50E-01	2.64E-02	4.23E-03	2.58E-01
143 UCART1	556869.4	3777413	556869.4, 3777413.38	827.8667	909.16599	867.15535	867.8432	8.04E-02	1.57E-01	2.81E-02	4.49E-03	2.70E-01
144 UCART1	556889.4	3777413	556889.4, 3777413.38	821.0235	904.15735	849.66892	849.9391	7.97E-02	1.56E-01	2.75E-02	4.40E-03	2.68E-01
145 UCART1	556909.4	3777413	556909.4, 3777413.38	778.8894	858.67638	803.74492	803.8647	7.56E-02	1.48E-01	2.60E-02	4.16E-03	2.54E-01
146 UCART1	556929.4	3777413	556929.4, 3777413.38	776.7098	858.20882	779.97131	780.4187	7.54E-02	1.48E-01	2.52E-02	4.04E-03	2.53E-01
147 UCART1	556949.4	3777413	556949.4, 3777413.38	735.5276	813.38817	735.71775	736.1044	7.14E-02	1.40E-01	2.38E-02	3.81E-03	2.39E-01
148 UCART1	556969.4	3777413	556969.4, 3777413.38	708.0912	785.86843	669.26841	670.2102	6.87E-02	1.36E-01	2.17E-02	3.47E-03	2.30E-01
149 UCART1	556989.4	3777413	556989.4, 3777413.38	587.3421	640.5012	525.82124	526.8855	5.70E-02	1.11E-01	1.70E-02	2.73E-03	1.87E-01
150 UCART1	557009.4	3777413	557009.4, 3777413.38	426.3047	453.4595	386.83213	386.9049	4.14E-02	7.83E-02	1.25E-02	2.00E-03	1.34E-01
151 UCART1	557029.4	3777413	557029.4, 3777413.38	393.4587	431.57978	383.05177	383.3037	3.82E-02	7.45E-02	1.24E-02	1.98E-03	1.27E-01
152 UCART1	557049.4	3777413	557049.4, 3777413.38	395.4132	441.10219	350.28083	350.6361	3.84E-02	7.61E-02	1.13E-02	1.82E-03	1.28E-01
153 UCART1	557069.4	3777413	557069.4, 3777413.38	360.2145	402.17131	321.24703	321.4834	3.50E-02	6.94E-02	1.04E-02	1.66E-03	1.16E-01
154 UCART1	557089.4	3777413	557089.4, 3777413.38	337.463	376.84037	291.83097	292.1051	3.28E-02	6.50E-02	9.44E-03	1.51E-03	1.09E-01
155 UCART1	557109.4	3777413	557109.4, 3777413.38	307.1682	339.87861	258.1753	258.3039	2.98E-02	5.87E-02	8.36E-03	1.34E-03	9.82E-02
156 UCART1	557129.4	3777413	557129.4, 3777413.38	274.5064	306.91434	244.70938	244.8661	2.67E-02	5.30E-02	7.92E-03	1.27E-03	8.88E-02
157 UCART1	557149.4	3777413	557149.4, 3777413.38	264.9309	296.39982	248.06684	248.1371	2.57E-02	5.12E-02	8.03E-03	1.28E-03	8.62E-02
158 UCART1	557169.4	3777413	557169.4, 3777413.38	248.5387	277.93071	250.16921	250.27	2.41E-02	4.80E-02	8.10E-03	1.30E-03	8.15E-02
159 UCART1	557189.4	3777413	557189.4, 3777413.38	246.2734	266.17894	248.83706	248.94	2.39E-02	4.59E-02	8.05E-03	1.29E-03	7.92E-02
160 UCART1	557209.4	3777413	557209.4, 3777413.38	257.8696	282.94324	244.67755	244.798	2.50E-02	4.88E-02	7.92E-03	1.27E-03	8.31E-02
161 UCART1	557229.4	3777413	557229.4, 3777413.38	259.0467	288.82041	234.22452	234.3533	2.52E-02	4.99E-02	7.58E-03	1.21E-03	8.38E-02
162 UCART1	557249.4	3777413	557249.4, 3777413.38	258.3854	288.86331	220.21451	220.3447	2.51E-02	4.99E-02	7.13E-03	1.14E-03	8.32E-02
163 UCART1	557269.4	3777413	557269.4, 3777413.38	250.5181	281.50561	205.08634	205.1706	2.43E-02	4.86E-02	6.64E-03	1.06E-03	8.06E-02
164 UCART1	557289.4	3777413	557289.4, 3777413.38	236.1359	264.62128	201.33091	201.4198	2.29E-02	4.57E-02	6.52E-03	1.04E-03	7.62E-02
165 UCART1	557309.4	3777413	557309.4, 3777413.38	217.2627	241.93783	194.90255	194.9928	2.11E-02	4.18E-02	6.31E-03	1.01E-03	7.02E-02
166 UCART1	557329.4	3777413	557329.4, 3777413.38	212.4592	235.38788	186.17413	186.2629	2.06E-02	4.06E-02	6.03E-03	9.64E-04	6.82E-02
167 UCART1	557349.4	3777413	557349.4, 3777413.38	211.1284	236.19225	177.27054	177.3564	2.05E-02	4.08E-02	5.74E-03	9.18E-04	6.79E-02
168 UCART1	557369.4	3777413	557369.4, 3777413.38	204.6674	230.01313	166.22458	166.3056	1.99E-02	3.97E-02	5.38E-03	8.61E-04	6.58E-02
169 UCART1	557389.4	3777413	557389.4, 3777413.38	196.4917	220.80751	158.38017	158.4447	1.91E-02	3.81E-02	5.13E-03	8.20E-04	6.31E-02
170 UCART1	557409.4	3777413	557409.4, 3777413.38	185.8374	207.98294	153.76812	153.8308	1.80E-02	3.59E-02	4.98E-03	7.97E-04	5.97E-02
171 UCART1	557429.4	3777413	557429.4, 3777413.38	174.4955	195.53021	147.42036	147.4801	1.69E-02	3.37E-02	4.77E-03	7.64E-04	5.62E-02
172 UCART1	557449.4	3777413	557449.4, 3777413.38	166.9694	186.02909	141.48584	141.5426	1.62E-02	3.21E-02	4.58E-03	7.33E-04	5.36E-02
173 UCART1	557469.4	3777413	557469.4, 3777413.38	163.9438	183.6436	135.42861	135.4821	1.59E-02	3.17E-02	4.38E-03	7.02E-04	5.27E-02
174 UCART1	557489.4	3777413	557489.4, 3777413.38	158.6517	178.2128	130.54101	130.5905	1.54E-02	3.08E-02	4.22E-03	6.76E-04	5.11E-02
175 UCART1	556509.4	3777433	556509.4, 3777433.38	684.5035	764.96908	562.10584	562.1151	6.65E-02	1.32E-01	1.82E-02	2.91E-03	2.20E-01
176 UCART1	556529.4	3777433	556529.4, 3777433.38	715.658	802.04637	601.19384	600.6964	6.95E-02	1.38E-01	1.95E-02	3.11E-03	2.30E-01
177 UCART1	556549.4	3777433	556549.4, 3777433.38	738.3225	825.36607	663.80988	663.7082	7.17E-02	1.42E-01	2.15E-02	3.44E-03	2.39E-01
178 UCART1	556569.4	3777433	556569.4, 3777433.38	748.1003	835.7567	689.11783	689.2746	7.26E-02	1.44E-01	2.23E-02	3.57E-03	2.43E-01
179 UCART1	556589.4	3777433	556589.4, 3777433.38	809.7233	900.24819	710.91639	711.3558	7.86E-02	1.55E-01	2.30E-02	3.68E-03	2.61E-01
180 UCART1	556609.4	3777433	556609.4, 3777433.38	848.5658	946.82726	751.70292	751.0641	8.24E-02	1.63E-01	2.43E-02	3.89E-03	2.74E-01
181 UCART1	556629.4	3777433	556629.4, 3777433.38	899.3538	1001.69248	824.42199	824.6073	8.73E-02	1.73E-01	2.67E-02	4.27E-03	2.91E-01
182 UCART1	556649.4	3777433	556649.4, 3777433.38	953.8536	1060.84779	873.34366	873.4717	9.26E-02	1.83E-01	2.83E-02	4.52E-03	3.08E-01
183 UCART1	556669.4	3777433	556669.4, 3777433.38	941.6506	1046.24183	936.28419	936.4267	9.14E-02	1.81E-01	3.03E-02	4.85E-03	3.07E-01
184 UCART1	556689.4	3777433	556689.4, 3777433.38	1006.059	1114.89948	939.93929	940.2063	9.77E-02	1.92E-01	3.04E-02	4.87E-03	3.25E-01
185 UCART1	556709.4	3777433	556709.4, 3777433.38	992.7848	1087.71403	1017.64019	1017.776	9.64E-02	1.88E-01	3.29E-02	5.27E-03	3.22E-01
186 UCART1	556729.4	3777433	556729.4, 3777433.38	740.6639	763.25648	1010.95528	1012.583	7.19E-02	1.32E-01	3.27E-02	5.24E-03	2.42E-01
187 UCART1	556749.4	3777433	556749.4, 3777433.38	625.1427	683.39219	764.24609	767.2315	6.07E-02	1.18E-01	2.47E-02	3.97E-03	2.07E-01
188 UCART1	556769.4	3777433	556769.4, 3777433.38	676.0253	745.45487	655.40679	655.1069	6.56E-02	1.29E-01	2.12E-02	3.39E-03	2.19E-01
189 UCART1	556789.4	3777433	556789.4, 3777433.38	686.2208	756.76792	665.80133	665.4689	6.66E-02	1.31E-01	2.15E-02	3.45E-03	2.22E-01
190 UCART1	556809.4	3777433	556809.4, 3777433.38	682.1344	749.59927	694.38021	694.7715	6.62E-02	1.29E-01	2.25E-02	3.60E-03	2.22E-01
191 UCART1	556829.4	3777433	556829.4, 3777433.38	686.2833	755.99898	691.50025	691.9356	6.66E-02	1.30E-01	2.24E-02	3.58E-03	2.23E-01
192 UCART1	556849.4	3777433	556849.4, 3777433.38	708.2409	780.97064	710.9226	711.2287	6.88E-02	1.35E-01	2.30E-02	3.68E-03	2.30E-01
193 UCART1	556869.4	3777433	556869.4, 3777433.38	742.2963	817.26641	757.70992	758.1267	7.21E-02	1.41E-01	2.45E-02	3.93E-03	2.42E-01
194 UCART1	556889.4	3777433	556889.4, 3777433.38	732.7188	807.03432	740.02818	740.2374	7.11E-02	1.39E-01	2.39E-02	3.83E-03	2.38E-01
195 UCART1	556909.4	3777433	556909.4, 3777433.38	704.4256	777.61054	707.13146	707.5754	6.84E-02	1.34E-01	2.29E-02	3.66E-03	2.29E-01

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
196 UCART1	556929.4	3777433	556929.4, 3777433.38	699.1484	772.91619	691.87599	692.2738	6.79E-02	1.33E-01	2.24E-02	3.58E-03	2.27E-01
197 UCART1	556949.4	3777433	556949.4, 3777433.38	677.0629	750.25548	657.99844	658.2775	6.57E-02	1.29E-01	2.13E-02	3.41E-03	2.20E-01
198 UCART1	556969.4	3777433	556969.4, 3777433.38	653.6693	725.49756	625.48508	626.1278	6.35E-02	1.25E-01	2.02E-02	3.24E-03	2.12E-01
199 UCART1	556989.4	3777433	556989.4, 3777433.38	596.8266	658.30829	539.43563	540.3371	5.79E-02	1.14E-01	1.75E-02	2.80E-03	1.92E-01
200 UCART1	557009.4	3777433	557009.4, 3777433.38	475.6517	508.6346	420.1285	420.9612	4.62E-02	8.78E-02	1.36E-02	2.18E-03	1.50E-01
201 UCART1	557029.4	3777433	557029.4, 3777433.38	350.5461	386.38595	339.70557	339.7887	3.40E-02	6.67E-02	1.10E-02	1.76E-03	1.13E-01
202 UCART1	557049.4	3777433	557049.4, 3777433.38	354.1032	390.44484	334.36351	334.5773	3.44E-02	6.74E-02	1.08E-02	1.73E-03	1.14E-01
203 UCART1	557069.4	3777433	557069.4, 3777433.38	350.5594	391.37029	305.83734	306.1271	3.40E-02	6.76E-02	9.90E-03	1.59E-03	1.13E-01
204 UCART1	557089.4	3777433	557089.4, 3777433.38	320.2509	357.79835	282.46087	282.6471	3.11E-02	6.18E-02	9.14E-03	1.46E-03	1.03E-01
205 UCART1	557109.4	3777433	557109.4, 3777433.38	301.5353	336.85774	260.06895	260.2887	2.93E-02	5.81E-02	8.42E-03	1.35E-03	9.72E-02
206 UCART1	557129.4	3777433	557129.4, 3777433.38	276.4717	306.69776	229.22998	229.4559	2.68E-02	5.29E-02	7.42E-03	1.19E-03	8.84E-02
207 UCART1	557149.4	3777433	557149.4, 3777433.38	248.0787	277.49001	219.06338	219.1825	2.41E-02	4.79E-02	7.09E-03	1.13E-03	8.02E-02
208 UCART1	557169.4	3777433	557169.4, 3777433.38	236.4091	263.88518	210.41947	210.458	2.30E-02	4.55E-02	6.81E-03	1.09E-03	7.64E-02
209 UCART1	557189.4	3777433	557189.4, 3777433.38	227.3648	254.76304	217.25885	217.3248	2.21E-02	4.40E-02	7.03E-03	1.13E-03	7.42E-02
210 UCART1	557209.4	3777433	557209.4, 3777433.38	211.6648	237.21551	218.34385	218.4265	2.05E-02	4.09E-02	7.07E-03	1.13E-03	6.97E-02
211 UCART1	557229.4	3777433	557229.4, 3777433.38	222.392	240.39037	216.32661	216.4124	2.16E-02	4.15E-02	7.00E-03	1.12E-03	7.12E-02
212 UCART1	557249.4	3777433	557249.4, 3777433.38	229.6911	253.61353	212.37636	212.4743	2.23E-02	4.38E-02	6.87E-03	1.10E-03	7.40E-02
213 UCART1	557269.4	3777433	557269.4, 3777433.38	229.7726	255.87281	203.74667	203.8505	2.23E-02	4.42E-02	6.59E-03	1.06E-03	7.41E-02
214 UCART1	557289.4	3777433	557289.4, 3777433.38	228.0508	255.38602	191.87138	191.976	2.21E-02	4.41E-02	6.21E-03	9.94E-04	7.34E-02
215 UCART1	557309.4	3777433	557309.4, 3777433.38	221.4727	248.9123	179.3545	179.4569	2.15E-02	4.30E-02	5.80E-03	9.29E-04	7.12E-02
216 UCART1	557329.4	3777433	557329.4, 3777433.38	208.6327	233.73003	176.31716	176.3874	2.03E-02	4.03E-02	5.71E-03	9.13E-04	6.72E-02
217 UCART1	557349.4	3777433	557349.4, 3777433.38	191.8534	213.86706	170.74864	170.8202	1.86E-02	3.69E-02	5.53E-03	8.85E-04	6.20E-02
218 UCART1	557369.4	3777433	557369.4, 3777433.38	187.3291	207.04994	164.83366	164.9051	1.82E-02	3.57E-02	5.33E-03	8.54E-04	6.01E-02
219 UCART1	557389.4	3777433	557389.4, 3777433.38	187.9932	209.92061	158.86837	158.9387	1.83E-02	3.62E-02	5.14E-03	8.23E-04	6.04E-02
220 UCART1	557409.4	3777433	557409.4, 3777433.38	184.5326	207.19895	151.04494	151.1126	1.79E-02	3.58E-02	4.89E-03	7.82E-04	5.93E-02
221 UCART1	557429.4	3777433	557429.4, 3777433.38	176.8518	198.85566	141.54562	141.6077	1.72E-02	3.43E-02	4.58E-03	7.33E-04	5.68E-02
222 UCART1	557449.4	3777433	557449.4, 3777433.38	168.5905	189.10715	136.75967	136.8107	1.64E-02	3.26E-02	4.43E-03	7.08E-04	5.41E-02
223 UCART1	557469.4	3777433	557469.4, 3777433.38	159.0755	178.51955	132.74663	132.7962	1.54E-02	3.08E-02	4.30E-03	6.88E-04	5.12E-02
224 UCART1	557489.4	3777433	557489.4, 3777433.38	151.2172	169.13411	128.2046	128.2522	1.47E-02	2.92E-02	4.15E-03	6.64E-04	4.87E-02
225 UCART1	556509.4	3777453	556509.4, 3777453.38	651.1306	729.72832	559.01003	558.7065	6.32E-02	1.26E-01	1.81E-02	2.89E-03	2.10E-01
226 UCART1	556529.4	3777453	556529.4, 3777453.38	663.9793	740.58581	599.52655	599.5789	6.45E-02	1.28E-01	1.94E-02	3.10E-03	2.15E-01
227 UCART1	556549.4	3777453	556549.4, 3777453.38	676.4067	754.85085	621.38512	621.3877	6.57E-02	1.30E-01	2.01E-02	3.22E-03	2.19E-01
228 UCART1	556569.4	3777453	556569.4, 3777453.38	731.4175	814.24018	630.39634	630.3852	7.10E-02	1.41E-01	2.04E-02	3.26E-03	2.35E-01
229 UCART1	556589.4	3777453	556589.4, 3777453.38	765.0413	854.65965	672.06663	671.5662	7.43E-02	1.48E-01	2.17E-02	3.48E-03	2.47E-01
230 UCART1	556609.4	3777453	556609.4, 3777453.38	810.9062	905.11147	729.98764	730.1424	7.87E-02	1.56E-01	2.36E-02	3.78E-03	2.62E-01
231 UCART1	556629.4	3777453	556629.4, 3777453.38	862.4964	960.80029	775.95981	775.9804	8.37E-02	1.66E-01	2.51E-02	4.02E-03	2.79E-01
232 UCART1	556649.4	3777453	556649.4, 3777453.38	849.1811	944.64977	828.71442	828.6314	8.24E-02	1.63E-01	2.68E-02	4.29E-03	2.77E-01
233 UCART1	556669.4	3777453	556669.4, 3777453.38	885.3365	984.08009	821.86053	822.5544	8.60E-02	1.70E-01	2.66E-02	4.26E-03	2.87E-01
234 UCART1	556689.4	3777453	556689.4, 3777453.38	931.2475	1031.62677	876.64467	876.2004	9.04E-02	1.78E-01	2.84E-02	4.54E-03	3.01E-01
235 UCART1	556709.4	3777453	556709.4, 3777453.38	795.3847	847.35446	921.27838	921.9311	7.72E-02	1.46E-01	2.98E-02	4.77E-03	2.58E-01
236 UCART1	556729.4	3777453	556729.4, 3777453.38	586.6408	649.54946	808.39025	810.4964	5.70E-02	1.12E-01	2.62E-02	4.20E-03	1.99E-01
237 UCART1	556749.4	3777453	556749.4, 3777453.38	588.878	646.90658	568.6405	569.4347	5.72E-02	1.12E-01	1.84E-02	2.95E-03	1.90E-01
238 UCART1	556769.4	3777453	556769.4, 3777453.38	599.2263	658.15926	595.75248	595.7894	5.82E-02	1.14E-01	1.93E-02	3.08E-03	1.94E-01
239 UCART1	556789.4	3777453	556789.4, 3777453.38	622.9098	686.83273	603.91287	603.8604	6.05E-02	1.19E-01	1.95E-02	3.13E-03	2.02E-01
240 UCART1	556809.4	3777453	556809.4, 3777453.38	623.0202	687.28658	611.00025	611.5005	6.05E-02	1.19E-01	1.98E-02	3.17E-03	2.02E-01
241 UCART1	556829.4	3777453	556829.4, 3777453.38	622.6215	687.05619	614.39498	614.4462	6.04E-02	1.19E-01	1.99E-02	3.18E-03	2.02E-01
242 UCART1	556849.4	3777453	556849.4, 3777453.38	644.6386	711.99557	634.32999	634.5832	6.26E-02	1.23E-01	2.05E-02	3.29E-03	2.09E-01
243 UCART1	556869.4	3777453	556869.4, 3777453.38	678.5701	748.62774	676.6523	676.8915	6.59E-02	1.29E-01	2.19E-02	3.50E-03	2.20E-01
244 UCART1	556889.4	3777453	556889.4, 3777453.38	662.5852	730.94912	655.80678	656.4269	6.43E-02	1.26E-01	2.12E-02	3.40E-03	2.15E-01
245 UCART1	556909.4	3777453	556909.4, 3777453.38	653.6799	721.1999	640.45007	641.1814	6.35E-02	1.24E-01	2.07E-02	3.32E-03	2.12E-01
246 UCART1	556929.4	3777453	556929.4, 3777453.38	633.5008	701.01417	619.14359	619.5507	6.15E-02	1.21E-01	2.00E-02	3.21E-03	2.06E-01
247 UCART1	556949.4	3777453	556949.4, 3777453.38	615.2222	681.85751	593.21768	593.6396	5.97E-02	1.18E-01	1.92E-02	3.07E-03	2.00E-01
248 UCART1	556969.4	3777453	556969.4, 3777453.38	593.7231	659.19724	569.50194	569.7582	5.76E-02	1.14E-01	1.84E-02	2.95E-03	1.93E-01
249 UCART1	556989.4	3777453	556989.4, 3777453.38	572.1304	636.80547	527.5349	528.1169	5.55E-02	1.10E-01	1.71E-02	2.73E-03	1.85E-01
250 UCART1	557009.4	3777453	557009.4, 3777453.38	492.6071	539.16295	436.00183	436.8064	4.78E-02	9.31E-02	1.41E-02	2.26E-03	1.57E-01
251 UCART1	557029.4	3777453	557029.4, 3777453.38	378.6206	396.61466	336.72525	337.4071	3.68E-02	6.85E-02	1.09E-02	1.75E-03	1.18E-01
252 UCART1	557049.4	3777453	557049.4, 3777453.38	303.8528	338.73254	299.60594	299.691	2.95E-02	5.85E-02	9.70E-03	1.55E-03	9.92E-02
253 UCART1	557069.4	3777453	557069.4, 3777453.38	318.4866	352.63207	293.32427	293.5068	3.09E-02	6.09E-02	9.49E-03	1.52E-03	1.03E-01
254 UCART1	557089.4	3777453	557089.4, 3777453.38	312.6392	349.19383	269.41414	269.6543	3.04E-02	6.03E-02	8.72E-03	1.40E-03	1.01E-01
255 UCART1	557109.4	3777453	557109.4, 3777453.38	287.5936	321.48673	251.26887	251.4185	2.79E-02	5.55E-02	8.13E-03	1.30E-03	9.28E-02
256 UCART1	557129.4	3777453	557129.4, 3777453.38	270.7565	302.57341	232.89191	233.0704	2.63E-02	5.22E-02	7.54E-03	1.21E-03	8.73E-02
257 UCART1	557149.4	3777453	557149.4, 3777453.38	252.033	280.13208	209.07286	209.2606	2.45E-02	4.84E-02	6.77E-03	1.08E-03	8.07E-02
258 UCART1	557169.4	3777453	557169.4, 3777453.38	223.5877	250.05707	195.36267	195.453	2.17E-02	4.32E-02	6.32E-03	1.01E-03	7.22E-02
259 UCART1	557189.4	3777453	557189.4, 3777453.38	213.0334	238.44225	186.42183	186.527	2.07E-02	4.12E-02	6.03E-03	9.66E-04	6.88E-02
260 UCART1	557209.4	3777453	557209.4, 3777453.38	208.0771	233.205	189.13474	189.1758	2.02E-02	4.03E-02	6.12E-03	9.80E-04	6.76E-02

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
261 UCART1	557229.4	3777453	557229.4, 3777453.38	195.2963	218.22922	192.03606	192.096	1.90E-02	3.77E-02	6.21E-03	9.95E-04	6.38E-02
262 UCART1	557249.4	3777453	557249.4, 3777453.38	192.5443	209.32042	192.0696	192.1406	1.87E-02	3.61E-02	6.22E-03	9.95E-04	6.20E-02
263 UCART1	557269.4	3777453	557269.4, 3777453.38	202.0586	220.32305	190.9903	191.0628	1.96E-02	3.80E-02	6.18E-03	9.89E-04	6.48E-02
264 UCART1	557289.4	3777453	557289.4, 3777453.38	205.5444	228.03487	186.30202	186.3829	2.00E-02	3.94E-02	6.03E-03	9.65E-04	6.63E-02
265 UCART1	557309.4	3777453	557309.4, 3777453.38	205.9365	228.75151	179.40759	179.4929	2.00E-02	3.95E-02	5.81E-03	9.29E-04	6.62E-02
266 UCART1	557329.4	3777453	557329.4, 3777453.38	203.8933	228.61101	169.82785	169.914	1.98E-02	3.95E-02	5.50E-03	8.80E-04	6.56E-02
267 UCART1	557349.4	3777453	557349.4, 3777453.38	197.2035	221.65339	158.96752	159.0518	1.91E-02	3.83E-02	5.14E-03	8.24E-04	6.34E-02
268 UCART1	557369.4	3777453	557369.4, 3777453.38	185.6261	207.89578	155.59459	155.6509	1.80E-02	3.59E-02	5.04E-03	8.06E-04	5.97E-02
269 UCART1	557389.4	3777453	557389.4, 3777453.38	172.6323	192.46464	152.56106	152.6194	1.68E-02	3.32E-02	4.94E-03	7.90E-04	5.57E-02
270 UCART1	557409.4	3777453	557409.4, 3777453.38	168.5612	185.84231	148.92834	148.9875	1.64E-02	3.21E-02	4.82E-03	7.71E-04	5.40E-02
271 UCART1	557429.4	3777453	557429.4, 3777453.38	168.495	187.78185	143.1873	143.2456	1.64E-02	3.24E-02	4.63E-03	7.42E-04	5.41E-02
272 UCART1	557449.4	3777453	557449.4, 3777453.38	165.8849	186.05958	136.65984	136.7163	1.61E-02	3.21E-02	4.42E-03	7.08E-04	5.33E-02
273 UCART1	557469.4	3777453	557469.4, 3777453.38	160.8648	180.88012	129.37934	129.4332	1.56E-02	3.12E-02	4.19E-03	6.70E-04	5.17E-02
274 UCART1	557489.4	3777453	557489.4, 3777453.38	153.8683	172.84102	122.61078	122.6606	1.49E-02	2.98E-02	3.97E-03	6.35E-04	4.94E-02
275 UCART1	556509.4	3777473	556509.4, 3777473.38	598.5886	668.03645	541.32463	541.4799	5.81E-02	1.15E-01	1.75E-02	2.80E-03	1.94E-01
276 UCART1	556529.4	3777473	556529.4, 3777473.38	608.6282	678.47026	557.48325	557.5748	5.91E-02	1.17E-01	1.80E-02	2.89E-03	1.97E-01
277 UCART1	556549.4	3777473	556549.4, 3777473.38	663.5009	739.48054	565.67558	565.7276	6.44E-02	1.28E-01	1.83E-02	2.93E-03	2.13E-01
278 UCART1	556569.4	3777473	556569.4, 3777473.38	693.6557	775.65745	605.08796	604.6903	6.73E-02	1.34E-01	1.96E-02	3.13E-03	2.24E-01
279 UCART1	556589.4	3777473	556589.4, 3777473.38	734.5522	821.0232	652.36258	652.4937	7.13E-02	1.42E-01	2.11E-02	3.38E-03	2.38E-01
280 UCART1	556609.4	3777473	556609.4, 3777473.38	770.875	858.9044	685.98452	685.9489	7.48E-02	1.48E-01	2.22E-02	3.55E-03	2.49E-01
281 UCART1	556629.4	3777473	556629.4, 3777473.38	760.8407	838.33748	728.71223	728.5071	7.39E-02	1.45E-01	2.36E-02	3.77E-03	2.46E-01
282 UCART1	556649.4	3777473	556649.4, 3777473.38	799.1555	889.42602	747.6198	748.2702	7.76E-02	1.54E-01	2.42E-02	3.87E-03	2.59E-01
283 UCART1	556669.4	3777473	556669.4, 3777473.38	836.4681	929.87227	767.13449	767.1126	8.12E-02	1.60E-01	2.48E-02	3.97E-03	2.71E-01
284 UCART1	556689.4	3777473	556689.4, 3777473.38	801.0565	875.14904	817.19236	817.2138	7.78E-02	1.51E-01	2.64E-02	4.23E-03	2.60E-01
285 UCART1	556709.4	3777473	556709.4, 3777473.38	597.5819	612.9855	788.32736	789.6175	5.80E-02	1.06E-01	2.55E-02	4.09E-03	1.93E-01
286 UCART1	556729.4	3777473	556729.4, 3777473.38	524.8728	578.07933	618.15013	620.2717	5.10E-02	9.98E-02	2.00E-02	3.21E-03	1.74E-01
287 UCART1	556749.4	3777473	556749.4, 3777473.38	552.1238	610.93909	500.85158	500.4652	5.36E-02	1.05E-01	1.62E-02	2.59E-03	1.78E-01
288 UCART1	556769.4	3777473	556769.4, 3777473.38	546.3208	600.14853	534.48478	534.7432	5.30E-02	1.04E-01	1.73E-02	2.77E-03	1.77E-01
289 UCART1	556789.4	3777473	556789.4, 3777473.38	571.3117	632.02542	544.07113	544.205	5.55E-02	1.09E-01	1.76E-02	2.82E-03	1.85E-01
290 UCART1	556809.4	3777473	556809.4, 3777473.38	569.6037	629.9818	541.00129	540.8765	5.53E-02	1.09E-01	1.75E-02	2.80E-03	1.84E-01
291 UCART1	556829.4	3777473	556829.4, 3777473.38	564.6577	623.93464	549.58507	549.6931	5.48E-02	1.08E-01	1.78E-02	2.85E-03	1.83E-01
292 UCART1	556849.4	3777473	556849.4, 3777473.38	588.8805	651.33369	569.53365	569.7462	5.72E-02	1.12E-01	1.84E-02	2.95E-03	1.91E-01
293 UCART1	556869.4	3777473	556869.4, 3777473.38	620.3421	685.32816	606.36156	606.4809	6.02E-02	1.18E-01	1.96E-02	3.14E-03	2.01E-01
294 UCART1	556889.4	3777473	556889.4, 3777473.38	611.3702	676.57743	593.55529	593.9569	5.94E-02	1.17E-01	1.92E-02	3.08E-03	1.98E-01
295 UCART1	556909.4	3777473	556909.4, 3777473.38	606.5604	671.82555	585.18879	585.6405	5.89E-02	1.16E-01	1.89E-02	3.03E-03	1.97E-01
296 UCART1	556929.4	3777473	556929.4, 3777473.38	572.0071	633.77162	558.90554	559.0262	5.55E-02	1.09E-01	1.81E-02	2.89E-03	1.86E-01
297 UCART1	556949.4	3777473	556949.4, 3777473.38	569.96	632.79548	540.72412	541.16	5.53E-02	1.09E-01	1.75E-02	2.80E-03	1.85E-01
298 UCART1	556969.4	3777473	556969.4, 3777473.38	545.0579	604.23276	518.43021	518.6687	5.29E-02	1.04E-01	1.68E-02	2.69E-03	1.77E-01
299 UCART1	556989.4	3777473	556989.4, 3777473.38	536.4527	596.82381	498.77164	499.1963	5.21E-02	1.03E-01	1.61E-02	2.58E-03	1.74E-01
300 UCART1	557009.4	3777473	557009.4, 3777473.38	500.5428	554.60906	446.23295	446.8333	4.86E-02	9.57E-02	1.44E-02	2.31E-03	1.61E-01
301 UCART1	557029.4	3777473	557029.4, 3777473.38	411.7877	446.00301	360.54777	361.1618	4.00E-02	7.70E-02	1.17E-02	1.87E-03	1.30E-01
302 UCART1	557049.4	3777473	557049.4, 3777473.38	306.3851	332.72656	276.01551	276.58	2.97E-02	5.74E-02	8.93E-03	1.43E-03	9.75E-02
303 UCART1	557069.4	3777473	557069.4, 3777473.38	272.1902	302.36859	268.55643	268.6395	2.64E-02	5.22E-02	8.69E-03	1.39E-03	8.87E-02
304 UCART1	557089.4	3777473	557089.4, 3777473.38	288.729	320.69122	260.63952	260.7971	2.80E-02	5.54E-02	8.43E-03	1.35E-03	9.32E-02
305 UCART1	557109.4	3777473	557109.4, 3777473.38	281.597	314.55914	240.31125	240.5138	2.73E-02	5.43E-02	7.78E-03	1.25E-03	9.07E-02
306 UCART1	557129.4	3777473	557129.4, 3777473.38	259.2823	289.99139	224.61006	224.732	2.52E-02	5.01E-02	7.27E-03	1.16E-03	8.37E-02
307 UCART1	557149.4	3777473	557149.4, 3777473.38	245.8162	274.73898	210.97242	211.12	2.39E-02	4.74E-02	6.83E-03	1.09E-03	7.92E-02
308 UCART1	557169.4	3777473	557169.4, 3777473.38	229.3653	255.3725	190.21239	190.3692	2.23E-02	4.41E-02	6.16E-03	9.86E-04	7.35E-02
309 UCART1	557189.4	3777473	557189.4, 3777473.38	204.9059	227.37653	176.1123	176.1814	1.99E-02	3.92E-02	5.70E-03	9.12E-04	6.58E-02
310 UCART1	557209.4	3777473	557209.4, 3777473.38	195.2424	218.54915	170.20203	170.2857	1.90E-02	3.77E-02	5.51E-03	8.82E-04	6.31E-02
311 UCART1	557229.4	3777473	557229.4, 3777473.38	189.7781	212.46753	164.24651	164.2697	1.84E-02	3.67E-02	5.32E-03	8.51E-04	6.13E-02
312 UCART1	557249.4	3777473	557249.4, 3777473.38	182.1137	204.01645	170.22841	170.2688	1.77E-02	3.52E-02	5.51E-03	8.82E-04	5.93E-02
313 UCART1	557269.4	3777473	557269.4, 3777473.38	170.6238	191.39412	171.67298	171.727	1.66E-02	3.30E-02	5.56E-03	8.89E-04	5.60E-02
314 UCART1	557289.4	3777473	557289.4, 3777473.38	176.9892	191.75105	170.90374	170.9559	1.72E-02	3.31E-02	5.53E-03	8.85E-04	5.67E-02
315 UCART1	557309.4	3777473	557309.4, 3777473.38	183.8284	201.75848	169.83845	169.9002	1.78E-02	3.48E-02	5.50E-03	8.80E-04	5.90E-02
316 UCART1	557329.4	3777473	557329.4, 3777473.38	185.9201	206.98722	166.0431	166.1112	1.81E-02	3.57E-02	5.37E-03	8.60E-04	6.00E-02
317 UCART1	557349.4	3777473	557349.4, 3777473.38	185.8147	206.94678	159.58287	159.6541	1.80E-02	3.57E-02	5.16E-03	8.27E-04	5.98E-02
318 UCART1	557369.4	3777473	557369.4, 3777473.38	183.4913	205.92264	151.59037	151.6623	1.78E-02	3.55E-02	4.91E-03	7.85E-04	5.90E-02
319 UCART1	557389.4	3777473	557389.4, 3777473.38	176.941	198.87608	142.10399	142.1744	1.72E-02	3.43E-02	4.60E-03	7.36E-04	5.68E-02
320 UCART1	557409.4	3777473	557409.4, 3777473.38	168.1293	188.22587	139.93916	139.9856	1.63E-02	3.25E-02	4.53E-03	7.25E-04	5.41E-02
321 UCART1	557429.4	3777473	557429.4, 3777473.38	156.4086	174.41255	137.28953	137.3377	1.52E-02	3.01E-02	4.44E-03	7.11E-04	5.04E-02
322 UCART1	557449.4	3777473	557449.4, 3777473.38	151.676	167.70963	134.46327	134.5124	1.47E-02	2.89E-02	4.35E-03	6.97E-04	4.87E-02
323 UCART1	557469.4	3777473	557469.4, 3777473.38	151.9923	169.04955	129.80275	129.8516	1.48E-02	2.92E-02	4.20E-03	6.72E-04	4.88E-02
324 UCART1	557489.4	3777473	557489.4, 3777473.38	149.9908	168.01343	124.27634	124.324	1.46E-02	2.90E-02	4.02E-03	6.44E-04	4.82E-02
325 UCART1	556509.4	3777493	556509.4, 3777493.38	561.3046	627.39656	507.75576	507.8999	5.45E-02	1.08E-01	1.64E-02	2.63E-03	1.82E-01

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
326 UCART1	556529.4	3777493	556529.4, 3777493.38	611.8438	682.36622	516.21166	516.2992	5.94E-02	1.18E-01	1.67E-02	2.67E-03	1.97E-01
327 UCART1	556549.4	3777493	556549.4, 3777493.38	633.3747	708.75621	549.32722	549.0053	6.15E-02	1.22E-01	1.78E-02	2.84E-03	2.04E-01
328 UCART1	556569.4	3777493	556569.4, 3777493.38	664.0233	742.90643	583.38793	583.503	6.45E-02	1.28E-01	1.89E-02	3.02E-03	2.15E-01
329 UCART1	556589.4	3777493	556589.4, 3777493.38	688.9198	766.61158	610.2204	610.1503	6.69E-02	1.32E-01	1.97E-02	3.16E-03	2.22E-01
330 UCART1	556609.4	3777493	556609.4, 3777493.38	705.2666	782.13706	643.93824	643.6656	6.85E-02	1.35E-01	2.08E-02	3.33E-03	2.28E-01
331 UCART1	556629.4	3777493	556629.4, 3777493.38	711.5556	793.44054	671.4678	671.8658	6.91E-02	1.37E-01	2.17E-02	3.48E-03	2.31E-01
332 UCART1	556649.4	3777493	556649.4, 3777493.38	749.6998	833.61886	672.17055	672.1878	7.28E-02	1.44E-01	2.18E-02	3.48E-03	2.42E-01
333 UCART1	556669.4	3777493	556669.4, 3777493.38	770.8218	853.91013	725.78511	725.755	7.48E-02	1.47E-01	2.35E-02	3.76E-03	2.49E-01
334 UCART1	556689.4	3777493	556689.4, 3777493.38	646.8317	685.05755	740.09105	740.7469	6.28E-02	1.18E-01	2.40E-02	3.84E-03	2.09E-01
335 UCART1	556709.4	3777493	556709.4, 3777493.38	485.6793	539.33698	642.63474	644.1943	4.72E-02	9.31E-02	2.08E-02	3.34E-03	1.64E-01
336 UCART1	556729.4	3777493	556729.4, 3777493.38	469.1349	512.27803	471.40019	472.8812	4.55E-02	8.84E-02	1.53E-02	2.45E-03	1.52E-01
337 UCART1	556749.4	3777493	556749.4, 3777493.38	508.893	563.94251	470.71801	470.5634	4.94E-02	9.73E-02	1.52E-02	2.44E-03	1.64E-01
338 UCART1	556769.4	3777493	556769.4, 3777493.38	512.8056	566.91594	475.90236	476.2961	4.98E-02	9.78E-02	1.54E-02	2.47E-03	1.66E-01
339 UCART1	556789.4	3777493	556789.4, 3777493.38	522.6465	578.75656	493.245	493.2038	5.07E-02	9.99E-02	1.60E-02	2.55E-03	1.69E-01
340 UCART1	556809.4	3777493	556809.4, 3777493.38	520.186	576.23636	490.84334	490.8215	5.05E-02	9.95E-02	1.59E-02	2.54E-03	1.68E-01
341 UCART1	556829.4	3777493	556829.4, 3777493.38	517.1657	572.03938	496.14698	496.2882	5.02E-02	9.87E-02	1.61E-02	2.57E-03	1.68E-01
342 UCART1	556849.4	3777493	556849.4, 3777493.38	538.0024	595.8528	512.22061	512.4019	5.22E-02	1.03E-01	1.66E-02	2.65E-03	1.74E-01
343 UCART1	556869.4	3777493	556869.4, 3777493.38	566.6224	626.50723	544.40619	544.445	5.50E-02	1.08E-01	1.76E-02	2.82E-03	1.84E-01
344 UCART1	556889.4	3777493	556889.4, 3777493.38	564.2473	625.50291	539.21828	539.4636	5.48E-02	1.08E-01	1.75E-02	2.79E-03	1.83E-01
345 UCART1	556909.4	3777493	556909.4, 3777493.38	558.9789	619.79945	533.04106	533.2888	5.43E-02	1.07E-01	1.73E-02	2.76E-03	1.81E-01
346 UCART1	556929.4	3777493	556929.4, 3777493.38	529.6538	588.00622	501.98473	502.2023	5.14E-02	1.01E-01	1.62E-02	2.60E-03	1.72E-01
347 UCART1	556949.4	3777493	556949.4, 3777493.38	526.2709	584.26542	494.48208	494.6738	5.11E-02	1.01E-01	1.60E-02	2.56E-03	1.71E-01
348 UCART1	556969.4	3777493	556969.4, 3777493.38	511.5402	569.12326	474.35025	474.7202	4.97E-02	9.82E-02	1.54E-02	2.46E-03	1.66E-01
349 UCART1	556989.4	3777493	556989.4, 3777493.38	494.6233	550.55921	461.25747	461.4393	4.80E-02	9.50E-02	1.49E-02	2.39E-03	1.60E-01
350 UCART1	557009.4	3777493	557009.4, 3777493.38	480.5777	535.8738	435.49763	435.8876	4.67E-02	9.25E-02	1.41E-02	2.26E-03	1.56E-01
351 UCART1	557029.4	3777493	557029.4, 3777493.38	426.7131	466.87776	374.36285	374.931	4.14E-02	8.06E-02	1.21E-02	1.94E-03	1.36E-01
352 UCART1	557049.4	3777493	557049.4, 3777493.38	341.4989	362.41097	299.58606	300.0861	3.32E-02	6.26E-02	9.70E-03	1.55E-03	1.07E-01
353 UCART1	557069.4	3777493	557069.4, 3777493.38	265.0282	293.52151	236.3828	236.3859	2.57E-02	5.07E-02	7.65E-03	1.22E-03	8.53E-02
354 UCART1	557089.4	3777493	557089.4, 3777493.38	251.5259	273.73913	241.31407	241.3932	2.44E-02	4.72E-02	7.81E-03	1.25E-03	8.07E-02
355 UCART1	557109.4	3777493	557109.4, 3777493.38	263.8431	293.74318	234.33637	234.4739	2.56E-02	5.07E-02	7.58E-03	1.21E-03	8.51E-02
356 UCART1	557129.4	3777493	557129.4, 3777493.38	254.6737	284.47232	215.58601	215.7587	2.47E-02	4.91E-02	6.98E-03	1.12E-03	8.19E-02
357 UCART1	557149.4	3777493	557149.4, 3777493.38	236.3306	264.41905	203.25134	203.3523	2.29E-02	4.56E-02	6.58E-03	1.05E-03	7.62E-02
358 UCART1	557169.4	3777493	557169.4, 3777493.38	223.4961	249.82685	191.37103	191.494	2.17E-02	4.31E-02	6.19E-03	9.92E-04	7.20E-02
359 UCART1	557189.4	3777493	557189.4, 3777493.38	210.4535	234.63031	174.4839	174.6165	2.04E-02	4.05E-02	5.65E-03	9.04E-04	6.75E-02
360 UCART1	557209.4	3777493	557209.4, 3777493.38	190.5734	209.24691	160.20932	160.2835	1.85E-02	3.61E-02	5.18E-03	8.30E-04	6.06E-02
361 UCART1	557229.4	3777493	557229.4, 3777493.38	179.2989	200.70636	155.29313	155.3597	1.74E-02	3.46E-02	5.03E-03	8.04E-04	5.79E-02
362 UCART1	557249.4	3777493	557249.4, 3777493.38	173.6486	193.98604	148.30814	148.3833	1.69E-02	3.35E-02	4.80E-03	7.68E-04	5.59E-02
363 UCART1	557269.4	3777493	557269.4, 3777493.38	168.7694	189.2692	150.09409	150.1196	1.64E-02	3.27E-02	4.86E-03	7.77E-04	5.47E-02
364 UCART1	557289.4	3777493	557289.4, 3777493.38	159.0221	177.52204	153.53334	153.5715	1.54E-02	3.06E-02	4.97E-03	7.95E-04	5.18E-02
365 UCART1	557309.4	3777493	557309.4, 3777493.38	155.8835	169.56586	153.97707	154.0226	1.51E-02	2.93E-02	4.98E-03	7.98E-04	5.02E-02
366 UCART1	557329.4	3777493	557329.4, 3777493.38	163.1776	176.82699	153.60536	153.6512	1.58E-02	3.05E-02	4.97E-03	7.96E-04	5.21E-02
367 UCART1	557349.4	3777493	557349.4, 3777493.38	167.8225	185.17822	152.24777	152.3008	1.63E-02	3.20E-02	4.93E-03	7.89E-04	5.40E-02
368 UCART1	557369.4	3777493	557369.4, 3777493.38	168.3121	187.88723	148.51432	148.5721	1.63E-02	3.24E-02	4.81E-03	7.69E-04	5.43E-02
369 UCART1	557389.4	3777493	557389.4, 3777493.38	168.7899	188.3773	143.28089	143.3412	1.64E-02	3.25E-02	4.64E-03	7.42E-04	5.43E-02
370 UCART1	557409.4	3777493	557409.4, 3777493.38	166.4237	186.89112	136.5799	136.6409	1.62E-02	3.23E-02	4.42E-03	7.08E-04	5.35E-02
371 UCART1	557429.4	3777493	557429.4, 3777493.38	159.7834	179.57753	127.93354	127.9931	1.55E-02	3.10E-02	4.14E-03	6.63E-04	5.13E-02
372 UCART1	557449.4	3777493	557449.4, 3777493.38	152.1059	170.23427	125.72759	125.7659	1.48E-02	2.94E-02	4.07E-03	6.51E-04	4.89E-02
373 UCART1	557469.4	3777493	557469.4, 3777493.38	142.7584	159.21358	124.50388	124.5442	1.39E-02	2.75E-02	4.03E-03	6.45E-04	4.60E-02
374 UCART1	557489.4	3777493	557489.4, 3777493.38	136.8518	152.8277	121.67894	121.72	1.33E-02	2.64E-02	3.94E-03	6.30E-04	4.42E-02
375 UCART1	556509.4	3777513	556509.4, 3777513.38	561.4937	626.73614	468.78234	468.8967	5.45E-02	1.08E-01	1.52E-02	2.43E-03	1.80E-01
376 UCART1	556529.4	3777513	556529.4, 3777513.38	580.2667	648.98939	500.10821	499.8465	5.63E-02	1.12E-01	1.62E-02	2.59E-03	1.87E-01
377 UCART1	556549.4	3777513	556549.4, 3777513.38	608.3068	680.74992	530.73233	530.8309	5.91E-02	1.17E-01	1.72E-02	2.75E-03	1.96E-01
378 UCART1	556569.4	3777513	556569.4, 3777513.38	629.5094	701.35405	559.23555	559.1339	6.11E-02	1.21E-01	1.81E-02	2.90E-03	2.03E-01
379 UCART1	556589.4	3777513	556589.4, 3777513.38	658.3604	733.33205	579.4839	579.5489	6.39E-02	1.27E-01	1.88E-02	3.00E-03	2.12E-01
380 UCART1	556609.4	3777513	556609.4, 3777513.38	649.9414	725.65715	611.53916	611.7601	6.31E-02	1.25E-01	1.98E-02	3.17E-03	2.11E-01
381 UCART1	556629.4	3777513	556629.4, 3777513.38	679.7476	757.88803	610.5932	610.6688	6.60E-02	1.31E-01	1.98E-02	3.16E-03	2.20E-01
382 UCART1	556649.4	3777513	556649.4, 3777513.38	715.0018	795.73543	640.68154	640.3673	6.94E-02	1.37E-01	2.07E-02	3.32E-03	2.31E-01
383 UCART1	556669.4	3777513	556669.4, 3777513.38	664.6048	722.87243	679.67011	679.8695	6.45E-02	1.25E-01	2.20E-02	3.52E-03	2.15E-01
384 UCART1	556689.4	3777513	556689.4, 3777513.38	494.2407	504.29933	635.80427	636.843	4.80E-02	8.70E-02	2.06E-02	3.30E-03	1.59E-01
385 UCART1	556709.4	3777513	556709.4, 3777513.38	444.4985	492.1967	504.85799	506.4236	4.32E-02	8.50E-02	1.63E-02	2.62E-03	1.47E-01
386 UCART1	556729.4	3777513	556729.4, 3777513.38	454.5922	501.48736	413.12683	413.4477	4.41E-02	8.66E-02	1.34E-02	2.14E-03	1.46E-01
387 UCART1	556749.4	3777513	556749.4, 3777513.38	462.8282	511.21358	437.12372	437.1416	4.49E-02	8.82E-02	1.41E-02	2.26E-03	1.50E-01
388 UCART1	556769.4	3777513	556769.4, 3777513.38	478.4488	530.57724	437.37508	437.2101	4.65E-02	9.16E-02	1.42E-02	2.26E-03	1.54E-01
389 UCART1	556789.4	3777513	556789.4, 3777513.38	478.8104	529.6627	453.39909	453.4676	4.65E-02	9.14E-02	1.47E-02	2.35E-03	1.55E-01
390 UCART1	556809.4	3777513	556809.4, 3777513.38	478.295	530.21991	448.47173	448.5188	4.64E-02	9.15E-02	1.45E-02	2.32E-03	1.55E-01

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
391 UCART1	556829.4	3777513	556829.4, 3777513.38	475.2099	526.37417	449.73398	449.8945	4.61E-02	9.09E-02	1.46E-02	2.33E-03	1.54E-01
392 UCART1	556849.4	3777513	556849.4, 3777513.38	493.9906	547.72859	463.98864	464.1448	4.80E-02	9.45E-02	1.50E-02	2.40E-03	1.60E-01
393 UCART1	556869.4	3777513	556869.4, 3777513.38	518.926	573.95345	491.42033	491.4046	5.04E-02	9.91E-02	1.59E-02	2.54E-03	1.68E-01
394 UCART1	556889.4	3777513	556889.4, 3777513.38	520.4248	577.23275	490.96343	491.0963	5.05E-02	9.96E-02	1.59E-02	2.54E-03	1.69E-01
395 UCART1	556909.4	3777513	556909.4, 3777513.38	510.707	567.06695	482.24991	482.3503	4.96E-02	9.79E-02	1.56E-02	2.50E-03	1.66E-01
396 UCART1	556929.4	3777513	556929.4, 3777513.38	488.2365	541.8733	459.16314	459.3513	4.74E-02	9.35E-02	1.49E-02	2.38E-03	1.58E-01
397 UCART1	556949.4	3777513	556949.4, 3777513.38	489.3838	543.80233	457.098	457.3561	4.75E-02	9.39E-02	1.48E-02	2.37E-03	1.59E-01
398 UCART1	556969.4	3777513	556969.4, 3777513.38	473.3545	526.35543	438.8661	439.0472	4.60E-02	9.08E-02	1.42E-02	2.27E-03	1.53E-01
399 UCART1	556989.4	3777513	556989.4, 3777513.38	453.7624	505.01691	423.46517	423.6659	4.41E-02	8.72E-02	1.37E-02	2.19E-03	1.47E-01
400 UCART1	557009.4	3777513	557009.4, 3777513.38	452.6283	504.40823	412.12249	412.4214	4.39E-02	8.71E-02	1.33E-02	2.14E-03	1.46E-01
401 UCART1	557029.4	3777513	557029.4, 3777513.38	426.5813	474.2299	375.80034	376.2181	4.14E-02	8.19E-02	1.22E-02	1.95E-03	1.37E-01
402 UCART1	557049.4	3777513	557049.4, 3777513.38	362.3332	396.10949	314.72822	315.1686	3.52E-02	6.84E-02	1.02E-02	1.63E-03	1.15E-01
403 UCART1	557069.4	3777513	557069.4, 3777513.38	282.6413	294.21338	251.56718	251.9987	2.74E-02	5.08E-02	8.14E-03	1.30E-03	8.77E-02
404 UCART1	557089.4	3777513	557089.4, 3777513.38	234.0488	259.21911	215.67454	215.6882	2.27E-02	4.47E-02	6.98E-03	1.12E-03	7.56E-02
405 UCART1	557109.4	3777513	557109.4, 3777513.38	233.4629	255.33811	218.83989	218.9142	2.27E-02	4.41E-02	7.08E-03	1.13E-03	7.50E-02
406 UCART1	557129.4	3777513	557129.4, 3777513.38	241.0266	268.84974	211.14028	211.2609	2.34E-02	4.64E-02	6.83E-03	1.09E-03	7.77E-02
407 UCART1	557149.4	3777513	557149.4, 3777513.38	232.2352	259.34421	195.32242	195.4716	2.25E-02	4.48E-02	6.32E-03	1.01E-03	7.46E-02
408 UCART1	557169.4	3777513	557169.4, 3777513.38	216.2515	242.03795	184.76417	184.8487	2.10E-02	4.18E-02	5.98E-03	9.57E-04	6.97E-02
409 UCART1	557189.4	3777513	557189.4, 3777513.38	204.3871	228.47896	174.64356	174.7471	1.98E-02	3.94E-02	5.65E-03	9.05E-04	6.58E-02
410 UCART1	557209.4	3777513	557209.4, 3777513.38	194.9428	217.55775	161.61493	161.7286	1.89E-02	3.76E-02	5.23E-03	8.37E-04	6.25E-02
411 UCART1	557229.4	3777513	557229.4, 3777513.38	177.2208	195.17481	146.85838	146.9285	1.72E-02	3.37E-02	4.75E-03	7.61E-04	5.64E-02
412 UCART1	557249.4	3777513	557249.4, 3777513.38	166.2526	186.18142	142.61289	142.666	1.61E-02	3.21E-02	4.62E-03	7.39E-04	5.36E-02
413 UCART1	557269.4	3777513	557269.4, 3777513.38	159.2801	178.25544	137.42956	137.4914	1.55E-02	3.08E-02	4.45E-03	7.12E-04	5.14E-02
414 UCART1	557289.4	3777513	557289.4, 3777513.38	156.4493	175.4188	132.65214	132.6667	1.52E-02	3.03E-02	4.29E-03	6.87E-04	5.04E-02
415 UCART1	557309.4	3777513	557309.4, 3777513.38	149.6512	167.55641	137.38778	137.4137	1.45E-02	2.89E-02	4.45E-03	7.12E-04	4.86E-02
416 UCART1	557329.4	3777513	557329.4, 3777513.38	141.7435	159.05018	139.59503	139.6306	1.38E-02	2.75E-02	4.52E-03	7.23E-04	4.65E-02
417 UCART1	557349.4	3777513	557349.4, 3777513.38	144.7102	157.70332	139.48063	139.5214	1.40E-02	2.72E-02	4.51E-03	7.22E-04	4.65E-02
418 UCART1	557369.4	3777513	557369.4, 3777513.38	150.7297	164.49481	139.02305	139.0635	1.46E-02	2.84E-02	4.50E-03	7.20E-04	4.82E-02
419 UCART1	557389.4	3777513	557389.4, 3777513.38	153.8366	170.45807	137.55379	137.5998	1.49E-02	2.94E-02	4.45E-03	7.12E-04	4.95E-02
420 UCART1	557409.4	3777513	557409.4, 3777513.38	153.793	171.94412	134.425	134.4747	1.49E-02	2.97E-02	4.35E-03	6.96E-04	4.97E-02
421 UCART1	557429.4	3777513	557429.4, 3777513.38	153.7385	171.86771	129.23486	129.2864	1.49E-02	2.97E-02	4.18E-03	6.69E-04	4.94E-02
422 UCART1	557449.4	3777513	557449.4, 3777513.38	151.0209	169.68296	123.23431	123.2863	1.47E-02	2.93E-02	3.99E-03	6.38E-04	4.86E-02
423 UCART1	557469.4	3777513	557469.4, 3777513.38	146.0048	164.0627	116.63477	116.6861	1.42E-02	2.83E-02	3.77E-03	6.04E-04	4.69E-02
424 UCART1	557489.4	3777513	557489.4, 3777513.38	139.0216	155.53613	114.1936	114.2258	1.35E-02	2.68E-02	3.70E-03	5.91E-04	4.46E-02
425 UCART1	556509.4	3777533	556509.4, 3777533.38	535.3284	598.19623	458.83513	458.6186	5.20E-02	1.03E-01	1.48E-02	2.37E-03	1.72E-01
426 UCART1	556529.4	3777533	556529.4, 3777533.38	561.9968	628.80837	488.1835	488.2678	5.46E-02	1.09E-01	1.58E-02	2.53E-03	1.81E-01
427 UCART1	556549.4	3777533	556549.4, 3777533.38	570.8044	637.25084	504.54974	504.4377	5.54E-02	1.10E-01	1.63E-02	2.61E-03	1.84E-01
428 UCART1	556569.4	3777533	556569.4, 3777533.38	605.4815	676.33769	524.00341	524.0574	5.88E-02	1.17E-01	1.70E-02	2.71E-03	1.95E-01
429 UCART1	556589.4	3777533	556589.4, 3777533.38	591.9928	660.72799	555.68655	555.7838	5.75E-02	1.14E-01	1.80E-02	2.88E-03	1.92E-01
430 UCART1	556609.4	3777533	556609.4, 3777533.38	617.7257	689.5681	545.3624	545.2922	6.00E-02	1.19E-01	1.76E-02	2.82E-03	1.99E-01
431 UCART1	556629.4	3777533	556629.4, 3777533.38	648.8428	723.90549	573.68841	573.7066	6.30E-02	1.25E-01	1.86E-02	2.97E-03	2.09E-01
432 UCART1	556649.4	3777533	556649.4, 3777533.38	646.6978	715.05406	607.24079	607.4092	6.28E-02	1.23E-01	1.97E-02	3.15E-03	2.09E-01
433 UCART1	556669.4	3777533	556669.4, 3777533.38	533.0716	561.18108	604.29778	604.9029	5.18E-02	9.69E-02	1.96E-02	3.13E-03	1.71E-01
434 UCART1	556689.4	3777533	556689.4, 3777533.38	409.0214	455.0169	522.70668	523.9012	3.97E-02	7.85E-02	1.69E-02	2.71E-03	1.38E-01
435 UCART1	556709.4	3777533	556709.4, 3777533.38	396.8932	435.17745	393.59351	394.7018	3.85E-02	7.51E-02	1.27E-02	2.04E-03	1.28E-01
436 UCART1	556729.4	3777533	556729.4, 3777533.38	431.3554	478.75829	381.49489	381.2707	4.19E-02	8.26E-02	1.23E-02	1.97E-03	1.39E-01
437 UCART1	556749.4	3777533	556749.4, 3777533.38	416.034	456.23138	401.8077	401.9497	4.04E-02	7.87E-02	1.30E-02	2.08E-03	1.34E-01
438 UCART1	556769.4	3777533	556769.4, 3777533.38	441.8812	490.31914	406.47587	406.4326	4.29E-02	8.46E-02	1.32E-02	2.10E-03	1.43E-01
439 UCART1	556789.4	3777533	556789.4, 3777533.38	437.4229	482.64	415.95221	416.0967	4.25E-02	8.33E-02	1.35E-02	2.15E-03	1.41E-01
440 UCART1	556809.4	3777533	556809.4, 3777533.38	443.6495	492.4754	411.81346	411.9071	4.31E-02	8.50E-02	1.33E-02	2.13E-03	1.44E-01
441 UCART1	556829.4	3777533	556829.4, 3777533.38	440.0587	487.92525	411.71049	411.8804	4.27E-02	8.42E-02	1.33E-02	2.13E-03	1.42E-01
442 UCART1	556849.4	3777533	556849.4, 3777533.38	455.9173	505.99748	423.25061	423.3865	4.43E-02	8.73E-02	1.37E-02	2.19E-03	1.47E-01
443 UCART1	556869.4	3777533	556869.4, 3777533.38	476.204	526.6448	445.47868	445.4262	4.62E-02	9.09E-02	1.44E-02	2.31E-03	1.54E-01
444 UCART1	556889.4	3777533	556889.4, 3777533.38	479.0542	531.12114	447.17991	447.2318	4.65E-02	9.17E-02	1.45E-02	2.32E-03	1.55E-01
445 UCART1	556909.4	3777533	556909.4, 3777533.38	472.3713	524.37655	440.37565	440.4985	4.59E-02	9.05E-02	1.43E-02	2.28E-03	1.53E-01
446 UCART1	556929.4	3777533	556929.4, 3777533.38	459.2162	508.03283	426.65559	427.0705	4.46E-02	8.77E-02	1.38E-02	2.21E-03	1.48E-01
447 UCART1	556949.4	3777533	556949.4, 3777533.38	446.2341	493.93909	418.22109	418.3207	4.33E-02	8.53E-02	1.35E-02	2.17E-03	1.44E-01
448 UCART1	556969.4	3777533	556969.4, 3777533.38	441.4921	491.44088	405.36689	405.6031	4.29E-02	8.48E-02	1.31E-02	2.10E-03	1.43E-01
449 UCART1	556989.4	3777533	556989.4, 3777533.38	429.9875	479.03617	388.13053	388.4462	4.17E-02	8.27E-02	1.26E-02	2.01E-03	1.39E-01
450 UCART1	557009.4	3777533	557009.4, 3777533.38	418.546	466.66539	382.31162	382.4454	4.06E-02	8.05E-02	1.24E-02	1.98E-03	1.36E-01
451 UCART1	557029.4	3777533	557029.4, 3777533.38	407.7334	454.42187	363.49099	363.7608	3.96E-02	7.84E-02	1.18E-02	1.88E-03	1.32E-01
452 UCART1	557049.4	3777533	557049.4, 3777533.38	371.1185	408.35782	322.60361	323.0147	3.60E-02	7.05E-02	1.04E-02	1.67E-03	1.19E-01
453 UCART1	557069.4	3777533	557069.4, 3777533.38	307.7883	330.86397	267.3373	267.7364	2.99E-02	5.71E-02	8.65E-03	1.39E-03	9.70E-02
454 UCART1	557089.4	3777533	557089.4, 3777533.38	234.4533	259.05643	212.25263	212.6229	2.28E-02	4.47E-02	6.87E-03	1.10E-03	7.54E-02
455 UCART1	557109.4	3777533	557109.4, 3777533.38	212.0405	236.84775	198.108	198.1283	2.06E-02	4.09E-02	6.41E-03	1.03E-03	6.89E-02

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
456 UCART1	557129.4	3777533	557129.4, 3777533.38	217.3164	238.79703	199.76317	199.8326	2.11E-02	4.12E-02	6.46E-03	1.03E-03	6.98E-02
457 UCART1	557149.4	3777533	557149.4, 3777533.38	222.3404	248.33948	192.6032	192.7101	2.16E-02	4.29E-02	6.23E-03	9.98E-04	7.17E-02
458 UCART1	557169.4	3777533	557169.4, 3777533.38	212.4853	237.2097	177.83442	177.9118	2.06E-02	4.09E-02	5.76E-03	9.21E-04	6.82E-02
459 UCART1	557189.4	3777533	557189.4, 3777533.38	198.4815	222.22376	168.56076	168.6322	1.93E-02	3.84E-02	5.46E-03	8.73E-04	6.40E-02
460 UCART1	557209.4	3777533	557209.4, 3777533.38	188.9946	211.24907	161.24536	161.3339	1.83E-02	3.65E-02	5.22E-03	8.35E-04	6.09E-02
461 UCART1	557229.4	3777533	557229.4, 3777533.38	179.8803	200.9368	149.04093	149.1384	1.75E-02	3.47E-02	4.82E-03	7.72E-04	5.77E-02
462 UCART1	557249.4	3777533	557249.4, 3777533.38	165.9246	183.19608	135.85459	135.9509	1.61E-02	3.16E-02	4.40E-03	7.04E-04	5.28E-02
463 UCART1	557269.4	3777533	557269.4, 3777533.38	153.9816	172.43037	130.80821	130.8505	1.49E-02	2.98E-02	4.23E-03	6.78E-04	4.96E-02
464 UCART1	557289.4	3777533	557289.4, 3777533.38	148.2183	166.04333	127.32873	127.3795	1.44E-02	2.87E-02	4.12E-03	6.60E-04	4.78E-02
465 UCART1	557309.4	3777533	557309.4, 3777533.38	145.3325	162.75375	121.84058	121.8968	1.41E-02	2.81E-02	3.94E-03	6.31E-04	4.68E-02
466 UCART1	557329.4	3777533	557329.4, 3777533.38	140.6205	157.6961	122.999	123.0156	1.37E-02	2.72E-02	3.98E-03	6.37E-04	4.55E-02
467 UCART1	557349.4	3777533	557349.4, 3777533.38	132.7816	148.42288	126.25216	126.2776	1.29E-02	2.56E-02	4.09E-03	6.54E-04	4.32E-02
468 UCART1	557369.4	3777533	557369.4, 3777533.38	129.974	142.99297	127.31886	127.3495	1.26E-02	2.47E-02	4.12E-03	6.59E-04	4.21E-02
469 UCART1	557389.4	3777533	557389.4, 3777533.38	134.802	146.38273	126.4458	126.4822	1.31E-02	2.53E-02	4.09E-03	6.55E-04	4.31E-02
470 UCART1	557409.4	3777533	557409.4, 3777533.38	139.7123	153.30676	126.72528	126.7612	1.36E-02	2.65E-02	4.10E-03	6.56E-04	4.48E-02
471 UCART1	557429.4	3777533	557429.4, 3777533.38	141.4165	157.21532	124.9766	125.0168	1.37E-02	2.71E-02	4.04E-03	6.47E-04	4.56E-02
472 UCART1	557449.4	3777533	557449.4, 3777533.38	141.3545	157.46875	122.00428	122.0474	1.37E-02	2.72E-02	3.95E-03	6.32E-04	4.55E-02
473 UCART1	557469.4	3777533	557469.4, 3777533.38	140.8407	157.65969	117.43111	117.4756	1.37E-02	2.72E-02	3.80E-03	6.08E-04	4.53E-02
474 UCART1	557489.4	3777533	557489.4, 3777533.38	138.0617	155.17791	112.13223	112.1771	1.34E-02	2.68E-02	3.63E-03	5.81E-04	4.44E-02
475 UCART1	556509.4	3777553	556509.4, 3777553.38	518.0482	579.44469	448.49587	448.57	5.03E-02	1.00E-01	1.45E-02	2.32E-03	1.67E-01
476 UCART1	556529.4	3777553	556529.4, 3777553.38	528.9305	590.50232	462.04519	461.9246	5.14E-02	1.02E-01	1.50E-02	2.39E-03	1.71E-01
477 UCART1	556549.4	3777553	556549.4, 3777553.38	559.0571	625.20442	478.57088	478.5765	5.43E-02	1.08E-01	1.55E-02	2.48E-03	1.80E-01
478 UCART1	556569.4	3777553	556569.4, 3777553.38	540.2026	604.04493	508.10797	508.1179	5.24E-02	1.04E-01	1.64E-02	2.63E-03	1.76E-01
479 UCART1	556589.4	3777553	556589.4, 3777553.38	564.452	630.82253	507.57351	507.9934	5.48E-02	1.09E-01	1.64E-02	2.63E-03	1.83E-01
480 UCART1	556609.4	3777553	556609.4, 3777553.38	587.3981	653.89898	515.13071	515.0024	5.70E-02	1.13E-01	1.67E-02	2.67E-03	1.89E-01
481 UCART1	556629.4	3777553	556629.4, 3777553.38	609.8035	679.4323	546.8535	546.7804	5.92E-02	1.17E-01	1.77E-02	2.83E-03	1.97E-01
482 UCART1	556649.4	3777553	556649.4, 3777553.38	553.8413	599.45821	566.95874	567.2335	5.38E-02	1.03E-01	1.83E-02	2.94E-03	1.79E-01
483 UCART1	556669.4	3777553	556669.4, 3777553.38	412.1994	418.49726	519.54408	520.386	4.00E-02	7.22E-02	1.68E-02	2.69E-03	1.32E-01
484 UCART1	556689.4	3777553	556689.4, 3777553.38	379.5322	421.88042	416.12036	417.3068	3.68E-02	7.28E-02	1.35E-02	2.16E-03	1.25E-01
485 UCART1	556709.4	3777553	556709.4, 3777553.38	372.1642	407.86521	347.15683	347.3567	3.61E-02	7.04E-02	1.12E-02	1.80E-03	1.20E-01
486 UCART1	556729.4	3777553	556729.4, 3777553.38	402.4304	447.31587	361.23336	361.1408	3.91E-02	7.72E-02	1.17E-02	1.87E-03	1.30E-01
487 UCART1	556749.4	3777553	556749.4, 3777553.38	394.0556	434.70581	363.96908	364.1974	3.83E-02	7.50E-02	1.18E-02	1.89E-03	1.27E-01
488 UCART1	556769.4	3777553	556769.4, 3777553.38	410.6771	455.64279	374.82714	374.8747	3.99E-02	7.86E-02	1.21E-02	1.94E-03	1.33E-01
489 UCART1	556789.4	3777553	556789.4, 3777553.38	401.679	442.96185	380.11719	380.3132	3.90E-02	7.65E-02	1.23E-02	1.97E-03	1.30E-01
490 UCART1	556809.4	3777553	556809.4, 3777553.38	412.0509	457.73549	379.06119	379.1863	4.00E-02	7.90E-02	1.23E-02	1.96E-03	1.33E-01
491 UCART1	556829.4	3777553	556829.4, 3777553.38	407.6532	452.36906	377.32601	377.4997	3.96E-02	7.81E-02	1.22E-02	1.95E-03	1.32E-01
492 UCART1	556849.4	3777553	556849.4, 3777553.38	423.1977	470.05542	388.96569	389.0848	4.11E-02	8.11E-02	1.26E-02	2.01E-03	1.37E-01
493 UCART1	556869.4	3777553	556869.4, 3777553.38	439.6238	485.93374	407.18897	407.1113	4.27E-02	8.39E-02	1.32E-02	2.11E-03	1.42E-01
494 UCART1	556889.4	3777553	556889.4, 3777553.38	441.4841	489.9574	410.72301	410.9569	4.29E-02	8.46E-02	1.33E-02	2.13E-03	1.43E-01
495 UCART1	556909.4	3777553	556909.4, 3777553.38	435.7745	482.84153	403.8872	403.9236	4.23E-02	8.33E-02	1.31E-02	2.09E-03	1.41E-01
496 UCART1	556929.4	3777553	556929.4, 3777553.38	437.2298	485.79837	401.84975	402.1397	4.24E-02	8.38E-02	1.30E-02	2.08E-03	1.41E-01
497 UCART1	556949.4	3777553	556949.4, 3777553.38	412.8048	459.33788	378.91074	379.1017	4.01E-02	7.93E-02	1.23E-02	1.96E-03	1.34E-01
498 UCART1	556969.4	3777553	556969.4, 3777553.38	412.2199	458.89793	374.00546	374.1075	4.00E-02	7.92E-02	1.21E-02	1.94E-03	1.33E-01
499 UCART1	556989.4	3777553	556989.4, 3777553.38	399.8891	445.3666	363.06009	363.2426	3.88E-02	7.69E-02	1.17E-02	1.88E-03	1.29E-01
500 UCART1	557009.4	3777553	557009.4, 3777553.38	386.6905	430.32464	352.62955	352.7974	3.75E-02	7.43E-02	1.14E-02	1.83E-03	1.25E-01
501 UCART1	557029.4	3777553	557029.4, 3777553.38	383.6888	428.15396	343.35571	343.5713	3.73E-02	7.39E-02	1.11E-02	1.78E-03	1.24E-01
502 UCART1	557049.4	3777553	557049.4, 3777553.38	366.5371	408.49553	319.53131	319.8303	3.56E-02	7.05E-02	1.03E-02	1.66E-03	1.18E-01
503 UCART1	557069.4	3777553	557069.4, 3777553.38	318.6525	350.80135	275.29035	275.675	3.09E-02	6.05E-02	8.91E-03	1.43E-03	1.02E-01
504 UCART1	557089.4	3777553	557089.4, 3777553.38	259.2036	273.28787	227.37158	227.7036	2.52E-02	4.72E-02	7.36E-03	1.18E-03	8.09E-02
505 UCART1	557109.4	3777553	557109.4, 3777553.38	209.1084	232.33778	179.38822	179.7041	2.03E-02	4.01E-02	5.81E-03	9.31E-04	6.71E-02
506 UCART1	557129.4	3777553	557129.4, 3777553.38	193.6377	216.18326	182.36062	182.3849	1.88E-02	3.73E-02	5.90E-03	9.44E-04	6.30E-02
507 UCART1	557149.4	3777553	557149.4, 3777553.38	202.1962	223.05414	182.77513	182.8397	1.96E-02	3.85E-02	5.92E-03	9.47E-04	6.50E-02
508 UCART1	557169.4	3777553	557169.4, 3777553.38	204.5641	228.73713	175.47483	175.5698	1.99E-02	3.95E-02	5.68E-03	9.09E-04	6.59E-02
509 UCART1	557189.4	3777553	557189.4, 3777553.38	195.1418	217.7584	162.91581	162.9831	1.89E-02	3.76E-02	5.27E-03	8.44E-04	6.26E-02
510 UCART1	557209.4	3777553	557209.4, 3777553.38	183.4805	205.48061	154.9967	155.0577	1.78E-02	3.55E-02	5.02E-03	8.03E-04	5.91E-02
511 UCART1	557229.4	3777553	557229.4, 3777553.38	173.9917	194.47817	148.16894	148.2447	1.69E-02	3.36E-02	4.80E-03	7.68E-04	5.60E-02
512 UCART1	557249.4	3777553	557249.4, 3777553.38	167.1361	186.83559	138.42735	138.5118	1.62E-02	3.22E-02	4.48E-03	7.17E-04	5.37E-02
513 UCART1	557269.4	3777553	557269.4, 3777553.38	154.9797	171.49468	126.83305	126.9208	1.50E-02	2.96E-02	4.10E-03	6.57E-04	4.94E-02
514 UCART1	557289.4	3777553	557289.4, 3777553.38	143.021	160.07725	120.64734	120.6956	1.39E-02	2.76E-02	3.90E-03	6.25E-04	4.60E-02
515 UCART1	557309.4	3777553	557309.4, 3777553.38	138.1183	154.70131	118.10088	118.1426	1.34E-02	2.67E-02	3.82E-03	6.12E-04	4.45E-02
516 UCART1	557329.4	3777553	557329.4, 3777553.38	134.773	150.62321	113.9464	113.9937	1.31E-02	2.60E-02	3.69E-03	5.90E-04	4.34E-02
517 UCART1	557349.4	3777553	557349.4, 3777553.38	131.968	148.06166	110.17302	110.1825	1.28E-02	2.56E-02	3.57E-03	5.71E-04	4.25E-02
518 UCART1	557369.4	3777553	557369.4, 3777553.38	126.0841	141.05591	114.10477	114.1222	1.22E-02	2.43E-02	3.69E-03	5.91E-04	4.09E-02
519 UCART1	557389.4	3777553	557389.4, 3777553.38	120.0426	134.73489	115.94769	115.972	1.17E-02	2.33E-02	3.75E-03	6.01E-04	3.93E-02
520 UCART1	557409.4	3777553	557409.4, 3777553.38	121.335	132.232	116.63732	116.6655	1.18E-02	2.28E-02	3.77E-03	6.04E-04	3.90E-02

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
521 UCART1	557429.4	3777553	557429.4, 3777553.38	126.2644	136.99967	116.2265	116.2539	1.23E-02	2.36E-02	3.76E-03	6.02E-04	4.03E-02
522 UCART1	557449.4	3777553	557449.4, 3777553.38	129.6629	142.94785	115.99604	116.028	1.26E-02	2.47E-02	3.75E-03	6.01E-04	4.16E-02
523 UCART1	557469.4	3777553	557469.4, 3777553.38	130.473	145.42857	114.2232	114.2586	1.27E-02	2.51E-02	3.70E-03	5.92E-04	4.21E-02
524 UCART1	557489.4	3777553	557489.4, 3777553.38	129.891	144.44319	110.90294	110.9404	1.26E-02	2.49E-02	3.59E-03	5.74E-04	4.17E-02
525 1	557438.9	3777337	557438.91, 3777336.71	186.9691	209.6783	153.09053	153.1553	1.82E-02	3.62E-02	4.95E-03	7.93E-04	6.01E-02
526 1	556615.9	3777137	556615.91, 3777136.99	1432.159	1608.72076	1107.18375	1106.134	1.39E-01	2.78E-01	3.58E-02	5.73E-03	4.58E-01
527 1	556586.4	3777056	556586.37, 3777056.16	1057.992	1178.74221	1030.68379	1029.919	1.03E-01	2.03E-01	3.34E-02	5.33E-03	3.45E-01
528 UCART4	556672.4	3776929	556672.35, 3776929.14	986.0725	1088.688	772.45949	772.1467	9.57E-02	1.88E-01	2.50E-02	4.00E-03	3.13E-01
529 UCART4	556692.4	3776929	556692.35, 3776929.14	973.5871	1066.98976	734.45509	734.7918	9.45E-02	1.84E-01	2.38E-02	3.80E-03	3.06E-01
530 UCART4	556712.4	3776929	556712.35, 3776929.14	968.736	1065.41422	763.60463	763.4313	9.41E-02	1.84E-01	2.47E-02	3.95E-03	3.07E-01
531 UCART4	556732.4	3776929	556732.35, 3776929.14	1014.244	1115.00361	792.93497	792.8745	9.85E-02	1.92E-01	2.57E-02	4.11E-03	3.21E-01
532 UCART4	556752.4	3776929	556752.35, 3776929.14	1086.014	1189.82005	878.99429	878.1992	1.05E-01	2.05E-01	2.84E-02	4.55E-03	3.44E-01
533 UCART4	556772.4	3776929	556772.35, 3776929.14	1086.411	1178.25664	867.04161	867.3597	1.05E-01	2.03E-01	2.81E-02	4.49E-03	3.41E-01
534 UCART4	556792.4	3776929	556792.35, 3776929.14	1096.346	1196.65146	875.93285	876.0117	1.06E-01	2.07E-01	2.83E-02	4.54E-03	3.46E-01
535 UCART4	556812.4	3776929	556812.35, 3776929.14	1126.761	1231.22106	907.86302	907.6326	1.09E-01	2.13E-01	2.94E-02	4.70E-03	3.56E-01
536 UCART4	556832.4	3776929	556832.35, 3776929.14	1137.241	1238.33761	926.08836	925.915	1.10E-01	2.14E-01	3.00E-02	4.79E-03	3.59E-01
537 UCART4	556852.4	3776929	556852.35, 3776929.14	1089.011	1177.36296	912.83795	913.1494	1.06E-01	2.03E-01	2.95E-02	4.73E-03	3.43E-01
538 UCART4	556672.4	3776949	556672.35, 3776949.14	1056.692	1167.50627	818.76919	817.9675	1.03E-01	2.02E-01	2.65E-02	4.24E-03	3.35E-01
539 UCART4	556692.4	3776949	556692.35, 3776949.14	1107.163	1222.02861	845.83819	845.568	1.07E-01	2.11E-01	2.74E-02	4.38E-03	3.50E-01
540 UCART4	556712.4	3776949	556712.35, 3776949.14	1026.513	1128.29506	823.67249	823.2163	9.97E-02	1.95E-01	2.67E-02	4.26E-03	3.25E-01
541 UCART4	556732.4	3776949	556732.35, 3776949.14	1073.448	1173.74699	866.72713	866.1102	1.04E-01	2.03E-01	2.80E-02	4.48E-03	3.39E-01
542 UCART4	556752.4	3776949	556752.35, 3776949.14	1112.91	1205.54104	919.418	918.3252	1.08E-01	2.08E-01	2.98E-02	4.76E-03	3.51E-01
543 UCART4	556772.4	3776949	556772.35, 3776949.14	1223.26	1334.60684	970.9368	970.8672	1.19E-01	2.30E-01	3.14E-02	5.03E-03	3.86E-01
544 UCART4	556792.4	3776949	556792.35, 3776949.14	1219.847	1332.54656	976.39045	976.1198	1.18E-01	2.30E-01	3.16E-02	5.05E-03	3.85E-01
545 UCART4	556812.4	3776949	556812.35, 3776949.14	1237.744	1349.95686	999.18597	998.651	1.20E-01	2.33E-01	3.23E-02	5.17E-03	3.91E-01
546 UCART4	556832.4	3776949	556832.35, 3776949.14	1240.837	1348.27392	1019.06101	1018.703	1.20E-01	2.33E-01	3.30E-02	5.27E-03	3.91E-01
547 UCART4	556852.4	3776949	556852.35, 3776949.14	1188.485	1281.97246	1001.96822	1002.32	1.15E-01	2.21E-01	3.24E-02	5.19E-03	3.74E-01
548 UCART4	556672.4	3776969	556672.35, 3776969.14	1176.874	1300.44223	903.54491	903.3623	1.14E-01	2.24E-01	2.92E-02	4.68E-03	3.73E-01
549 UCART4	556692.4	3776969	556692.35, 3776969.14	1167.002	1282.77336	931.0544	930.3574	1.13E-01	2.21E-01	3.01E-02	4.82E-03	3.70E-01
550 UCART4	556712.4	3776969	556712.35, 3776969.14	1212.915	1327.84245	913.70364	913.9179	1.18E-01	2.29E-01	2.96E-02	4.73E-03	3.81E-01
551 UCART4	556732.4	3776969	556732.35, 3776969.14	1171.173	1281.9168	929.90708	929.6534	1.14E-01	2.21E-01	3.01E-02	4.81E-03	3.70E-01
552 UCART4	556752.4	3776969	556752.35, 3776969.14	1222.114	1335.14337	953.85991	953.9814	1.19E-01	2.30E-01	3.09E-02	4.94E-03	3.85E-01
553 UCART4	556772.4	3776969	556772.35, 3776969.14	1345.887	1467.07932	1078.10991	1077.483	1.31E-01	2.53E-01	3.49E-02	5.58E-03	4.24E-01
554 UCART4	556792.4	3776969	556792.35, 3776969.14	1334.411	1453.12867	1075.61223	1074.821	1.30E-01	2.51E-01	3.48E-02	5.57E-03	4.21E-01
555 UCART4	556812.4	3776969	556812.35, 3776969.14	1352.214	1469.34922	1095.06953	1094.462	1.31E-01	2.54E-01	3.54E-02	5.67E-03	4.26E-01
556 UCART4	556832.4	3776969	556832.35, 3776969.14	1368.642	1482.95575	1129.60658	1128.986	1.33E-01	2.56E-01	3.66E-02	5.85E-03	4.31E-01
557 UCART4	556852.4	3776969	556852.35, 3776969.14	1304.846	1406.59418	1108.47892	1108.884	1.27E-01	2.43E-01	3.59E-02	5.74E-03	4.11E-01
558 UCART4	556672.4	3776989	556672.35, 3776989.14	1258.467	1388.91687	982.65933	981.6734	1.22E-01	2.40E-01	3.18E-02	5.08E-03	3.99E-01
559 UCART4	556692.4	3776989	556692.35, 3776989.14	1326.155	1461.87003	1003.66436	1003.063	1.29E-01	2.52E-01	3.25E-02	5.19E-03	4.19E-01
560 UCART4	556712.4	3776989	556712.35, 3776989.14	1344.188	1477.25897	1050.48487	1050.039	1.31E-01	2.55E-01	3.40E-02	5.44E-03	4.25E-01
561 UCART4	556732.4	3776989	556732.35, 3776989.14	1279.549	1404.8856	1018.91354	1018.137	1.24E-01	2.42E-01	3.30E-02	5.27E-03	4.05E-01
562 UCART4	556752.4	3776989	556752.35, 3776989.14	1334.562	1454.16729	1079.04589	1078.339	1.30E-01	2.51E-01	3.49E-02	5.58E-03	4.21E-01
563 UCART4	556772.4	3776989	556772.35, 3776989.14	1433.905	1557.27384	1174.36384	1172.963	1.39E-01	2.69E-01	3.80E-02	6.07E-03	4.52E-01
564 UCART4	556792.4	3776989	556792.35, 3776989.14	1437.605	1549.78607	1189.80762	1188.678	1.40E-01	2.67E-01	3.85E-02	6.15E-03	4.52E-01
565 UCART4	556812.4	3776989	556812.35, 3776989.14	1480.501	1603.76623	1215.21039	1214.76	1.44E-01	2.77E-01	3.93E-02	6.29E-03	4.66E-01
566 UCART4	556832.4	3776989	556832.35, 3776989.14	1511.187	1631.17319	1254.6396	1253.631	1.47E-01	2.82E-01	4.06E-02	6.49E-03	4.75E-01
567 UCART4	556852.4	3776989	556852.35, 3776989.14	1445.32	1557.18795	1236.85486	1237.332	1.40E-01	2.69E-01	4.00E-02	6.41E-03	4.56E-01
568 UCART4	556672.4	3777009	556672.35, 3777009.14	1307.734	1448.15342	1058.69053	1057.981	1.27E-01	2.50E-01	3.43E-02	5.48E-03	4.17E-01
569 UCART4	556692.4	3777009	556692.35, 3777009.14	1412.145	1551.00898	1123.84961	1122.863	1.37E-01	2.68E-01	3.64E-02	5.81E-03	4.47E-01
570 UCART4	556712.4	3777009	556712.35, 3777009.14	1487.153	1628.61946	1133.70455	1132.268	1.44E-01	2.81E-01	3.67E-02	5.86E-03	4.68E-01
571 UCART4	556732.4	3777009	556732.35, 3777009.14	1543.407	1691.1703	1169.90315	1169.774	1.50E-01	2.92E-01	3.79E-02	6.06E-03	4.86E-01
572 UCART4	556752.4	3777009	556752.35, 3777009.14	1457.537	1584.46511	1173.98083	1173.603	1.42E-01	2.73E-01	3.80E-02	6.08E-03	4.59E-01
573 UCART4	556772.4	3777009	556772.35, 3777009.14	1505.55	1628.84176	1258.89927	1256.763	1.46E-01	2.81E-01	4.07E-02	6.51E-03	4.75E-01
574 UCART4	556792.4	3777009	556792.35, 3777009.14	1679.45	1814.84594	1346.34701	1346.414	1.63E-01	3.13E-01	4.36E-02	6.97E-03	5.27E-01
575 UCART4	556812.4	3777009	556812.35, 3777009.14	1620.034	1744.16927	1356.86061	1355.527	1.57E-01	3.01E-01	4.39E-02	7.02E-03	5.09E-01
576 UCART4	556832.4	3777009	556832.35, 3777009.14	1671.134	1794.92605	1398.38313	1396.805	1.62E-01	3.10E-01	4.53E-02	7.23E-03	5.25E-01
577 UCART4	556852.4	3777009	556852.35, 3777009.14	1626.296	1745.0452	1392.64862	1393.224	1.58E-01	3.01E-01	4.51E-02	7.21E-03	5.11E-01
578 UCART4	556672.4	3777029	556672.35, 3777029.14	1461.476	1617.86919	1083.7107	1082.908	1.42E-01	2.79E-01	3.51E-02	5.61E-03	4.62E-01
579 UCART4	556692.4	3777029	556692.35, 3777029.14	1502.577	1660.25926	1209.58275	1208.822	1.46E-01	2.87E-01	3.91E-02	6.26E-03	4.78E-01
580 UCART4	556712.4	3777029	556712.35, 3777029.14	1610.212	1772.58378	1298.29561	1297.423	1.56E-01	3.06E-01	4.20E-02	6.72E-03	5.11E-01
581 UCART4	556732.4	3777029	556732.35, 3777029.14	1665.216	1815.54225	1337.96593	1336.719	1.62E-01	3.13E-01	4.33E-02	6.92E-03	5.25E-01
582 UCART4	556752.4	3777029	556752.35, 3777029.14	1704.592	1842.97701	1306.8483	1305.436	1.65E-01	3.18E-01	4.23E-02	6.76E-03	5.33E-01
583 UCART4	556772.4	3777029	556772.35, 3777029.14	1708.889	1849.03205	1392.89147	1392.168	1.66E-01	3.19E-01	4.51E-02	7.21E-03	5.37E-01
584 UCART4	556792.4	3777029	556792.35, 3777029.14	1897.968	2047.74246	1543.65352	1542.581	1.84E-01	3.53E-01	5.00E-02	7.99E-03	5.96E-01
585 UCART4	556812.4	3777029	556812.35, 3777029.14	1851.215	1989.28731	1526.22994	1526.015	1.80E-01	3.43E-01	4.94E-02	7.90E-03	5.80E-01

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
586 UCART4	556832.4	3777029	556832.35, 3777029.14	1858.844	1984.42843	1574.57961	1572.155	1.80E-01	3.43E-01	5.10E-02	8.14E-03	5.82E-01
587 UCART4	556852.4	3777029	556852.35, 3777029.14	1840.137	1966.8182	1583.02947	1583.737	1.79E-01	3.39E-01	5.12E-02	8.20E-03	5.78E-01
588 UCART4	556672.4	3777049	556672.35, 3777049.14	1503.022	1664.32914	1219.64695	1218.541	1.46E-01	2.87E-01	3.95E-02	6.31E-03	4.79E-01
589 UCART4	556692.4	3777049	556692.35, 3777049.14	1697.344	1876.06657	1258.24812	1257.219	1.65E-01	3.24E-01	4.07E-02	6.51E-03	5.36E-01
590 UCART4	556712.4	3777049	556712.35, 3777049.14	1771.443	1937.91619	1408.31276	1407.548	1.72E-01	3.34E-01	4.56E-02	7.29E-03	5.59E-01
591 UCART4	556732.4	3777049	556732.35, 3777049.14	1905.872	2080.59765	1497.17448	1496.645	1.85E-01	3.59E-01	4.85E-02	7.75E-03	6.00E-01
592 UCART4	556752.4	3777049	556752.35, 3777049.14	1991.587	2168.57925	1559.14374	1558.543	1.93E-01	3.74E-01	5.05E-02	8.07E-03	6.26E-01
593 UCART4	556772.4	3777049	556772.35, 3777049.14	1877.794	2020.47641	1554.6295	1554.045	1.82E-01	3.49E-01	5.03E-02	8.05E-03	5.89E-01
594 UCART4	556792.4	3777049	556792.35, 3777049.14	2049.079	2189.99024	1722.41634	1720.223	1.99E-01	3.78E-01	5.57E-02	8.91E-03	6.42E-01
595 UCART4	556812.4	3777049	556812.35, 3777049.14	2103.615	2249.46281	1764.11756	1762.511	2.04E-01	3.88E-01	5.71E-02	9.13E-03	6.59E-01
596 UCART4	556832.4	3777049	556832.35, 3777049.14	2074.192	2198.64883	1785.45075	1781.732	2.01E-01	3.79E-01	5.78E-02	9.23E-03	6.48E-01
597 UCART4	556852.4	3777049	556852.35, 3777049.14	2094.964	2226.70909	1822.48431	1823.388	2.03E-01	3.84E-01	5.90E-02	9.44E-03	6.56E-01
598 UCART3	556927.5	3776960	556927.54, 3776959.53	1241.083	1353.504	1005.23171	1004.857	1.20E-01	2.34E-01	3.25E-02	5.20E-03	3.92E-01
599 UCART3	556947.5	3776960	556947.54, 3776959.53	1175.681	1285.09091	982.36369	982.5518	1.14E-01	2.22E-01	3.18E-02	5.09E-03	3.73E-01
600 UCART3	556967.5	3776960	556967.54, 3776959.53	1145.163	1254.43581	930.1234	930.2798	1.11E-01	2.17E-01	3.01E-02	4.82E-03	3.63E-01
601 UCART3	556987.5	3776960	556987.54, 3776959.53	1063.336	1161.65855	893.36914	893.3951	1.03E-01	2.01E-01	2.89E-02	4.63E-03	3.37E-01
602 UCART3	557007.5	3776960	557007.54, 3776959.53	764.4127	788.58843	812.99409	813.9485	7.42E-02	1.36E-01	2.63E-02	4.21E-03	2.41E-01
603 UCART3	557027.5	3776960	557027.54, 3776959.53	420.9088	384.98436	623.61199	625.2449	4.09E-02	6.64E-02	2.02E-02	3.24E-03	1.31E-01
604 UCART3	557047.5	3776960	557047.54, 3776959.53	184.6273	187.31324	408.89276	410.4801	1.79E-02	3.23E-02	1.32E-02	2.13E-03	6.56E-02
605 UCART3	557067.5	3776960	557067.54, 3776959.53	162.6574	179.69926	235.07175	236.2363	1.58E-02	3.10E-02	7.61E-03	1.22E-03	5.56E-02
606 UCART3	557087.5	3776960	557087.54, 3776959.53	148.9609	163.50628	123.19261	123.8408	1.45E-02	2.82E-02	3.99E-03	6.41E-04	4.73E-02
607 UCART3	556927.5	3776980	556927.54, 3776979.53	1357.339	1479.17985	1117.44076	1116.649	1.32E-01	2.55E-01	3.62E-02	5.78E-03	4.29E-01
608 UCART3	556947.5	3776980	556947.54, 3776979.53	1292.573	1412.3645	1069.22842	1069.282	1.25E-01	2.44E-01	3.46E-02	5.54E-03	4.09E-01
609 UCART3	556967.5	3776980	556967.54, 3776979.53	1247.164	1365.80639	1025.06156	1025.205	1.21E-01	2.36E-01	3.32E-02	5.31E-03	3.95E-01
610 UCART3	556987.5	3776980	556987.54, 3776979.53	994.1222	1054.70149	962.8943	963.4592	9.65E-02	1.82E-01	3.12E-02	4.99E-03	3.15E-01
611 UCART3	557007.5	3776980	557007.54, 3776979.53	580.3909	556.439	777.16261	778.9237	5.63E-02	9.60E-02	2.52E-02	4.03E-03	1.82E-01
612 UCART3	557027.5	3776980	557027.54, 3776979.53	258.9194	214.28474	521.80203	523.7563	2.51E-02	3.70E-02	1.69E-02	2.71E-03	8.17E-02
613 UCART3	557047.5	3776980	557047.54, 3776979.53	185.6183	204.86433	300.23536	301.7369	1.80E-02	3.54E-02	9.72E-03	1.56E-03	6.47E-02
614 UCART3	557067.5	3776980	557067.54, 3776979.53	168.8048	185.08329	153.92437	154.7648	1.64E-02	3.19E-02	4.98E-03	8.01E-04	5.41E-02
615 UCART3	557087.5	3776980	557087.54, 3776979.53	172.7833	187.60087	127.28918	127.2347	1.68E-02	3.24E-02	4.12E-03	6.59E-04	5.39E-02
616 UCART3	556927.5	3777000	556927.54, 3776999.53	1478.707	1606.56948	1257.26915	1257.491	1.44E-01	2.77E-01	4.07E-02	6.51E-03	4.68E-01
617 UCART3	556947.5	3777000	556947.54, 3776999.53	1437.669	1568.5714	1175.51	1175.547	1.40E-01	2.71E-01	3.80E-02	6.09E-03	4.54E-01
618 UCART3	556967.5	3777000	556967.54, 3776999.53	1268.215	1370.62891	1119.08974	1119.357	1.23E-01	2.37E-01	3.62E-02	5.80E-03	4.02E-01
619 UCART3	556987.5	3777000	556987.54, 3776999.53	804.7673	805.68151	969.93222	971.662	7.81E-02	1.39E-01	3.14E-02	5.03E-03	2.54E-01
620 UCART3	557007.5	3777000	557007.54, 3776999.53	370.3153	318.20266	674.12238	676.5086	3.60E-02	5.49E-02	2.18E-02	3.50E-03	1.16E-01
621 UCART3	557027.5	3777000	557027.54, 3776999.53	214.6869	236.65724	389.67981	391.6384	2.08E-02	4.08E-02	1.26E-02	2.03E-03	7.63E-02
622 UCART3	557047.5	3777000	557047.54, 3776999.53	196.177	212.02751	195.54129	196.6514	1.90E-02	3.66E-02	6.33E-03	1.02E-03	6.30E-02
623 UCART3	557067.5	3777000	557067.54, 3776999.53	199.9584	217.86003	146.27877	146.2186	1.94E-02	3.76E-02	4.73E-03	7.57E-04	6.25E-02
624 UCART3	557087.5	3777000	557087.54, 3776999.53	193.5881	213.66553	145.68247	145.6656	1.88E-02	3.69E-02	4.71E-03	7.54E-04	6.11E-02
625 UCART3	556927.5	3777020	556927.54, 3777019.53	1638.857	1776.23229	1390.13327	1390.36	1.59E-01	3.07E-01	4.50E-02	7.20E-03	5.18E-01
626 UCART3	556947.5	3777020	556947.54, 3777019.53	1563.381	1699.48163	1315.81341	1316.109	1.52E-01	2.93E-01	4.26E-02	6.81E-03	4.95E-01
627 UCART3	556967.5	3777020	556967.54, 3777019.53	1114.298	1156.95388	1202.25218	1203.567	1.08E-01	2.00E-01	3.89E-02	6.23E-03	3.53E-01
628 UCART3	556987.5	3777020	556987.54, 3777019.53	540.3461	491.53605	881.05014	883.8937	5.25E-02	8.48E-02	2.85E-02	4.58E-03	1.70E-01
629 UCART3	557007.5	3777020	557007.54, 3777019.53	252.4347	277.83462	515.4411	518.0273	2.45E-02	4.80E-02	1.67E-02	2.68E-03	9.18E-02
630 UCART3	557027.5	3777020	557027.54, 3777019.53	232.8432	247.78134	252.91259	254.4071	2.26E-02	4.28E-02	8.18E-03	1.32E-03	7.49E-02
631 UCART3	557047.5	3777020	557047.54, 3777019.53	234.3618	256.14259	170.34977	170.2835	2.28E-02	4.42E-02	5.51E-03	8.82E-04	7.34E-02
632 UCART3	557067.5	3777020	557067.54, 3777019.53	222.7074	245.89067	168.28922	168.2801	2.16E-02	4.24E-02	5.45E-03	8.71E-04	7.04E-02
633 UCART3	557087.5	3777020	557087.54, 3777019.53	236.3153	239.87593	166.33174	166.1387	2.29E-02	4.14E-02	5.38E-03	8.60E-04	7.06E-02
634 UCART3	556927.5	3777040	556927.54, 3777039.53	1871.838	2027.45719	1557.9624	1557.661	1.82E-01	3.50E-01	5.04E-02	8.07E-03	5.90E-01
635 UCART3	556947.5	3777040	556947.54, 3777039.53	1523.313	1622.03705	1464.86461	1464.985	1.48E-01	2.80E-01	4.74E-02	7.59E-03	4.83E-01
636 UCART3	556967.5	3777040	556967.54, 3777039.53	803.5943	772.52157	1162.93006	1166.126	7.80E-02	1.33E-01	3.76E-02	6.04E-03	2.55E-01
637 UCART3	556987.5	3777040	556987.54, 3777039.53	302.994	332.79956	696.32215	699.7685	2.94E-02	5.74E-02	2.25E-02	3.62E-03	1.13E-01
638 UCART3	557007.5	3777040	557007.54, 3777039.53	281.7115	300.98177	335.19442	337.4377	2.74E-02	5.19E-02	1.08E-02	1.75E-03	9.19E-02
639 UCART3	557027.5	3777040	557027.54, 3777039.53	278.8868	305.59266	201.63789	201.5659	2.71E-02	5.27E-02	6.53E-03	1.04E-03	8.74E-02
640 UCART3	557047.5	3777040	557047.54, 3777039.53	272.0202	285.42177	197.13342	197.1385	2.64E-02	4.93E-02	6.38E-03	1.02E-03	8.31E-02
641 UCART3	557067.5	3777040	557067.54, 3777039.53	298.3932	310.71655	204.33302	204.1127	2.90E-02	5.36E-02	6.61E-03	1.06E-03	9.03E-02
642 UCART3	557087.5	3777040	557087.54, 3777039.53	308.929	332.86233	214.8924	214.7426	3.00E-02	5.75E-02	6.95E-03	1.11E-03	9.55E-02
643 UCART3	557047.5	3777060	557047.54, 3777059.53	379.7985	404.96096	255.23947	254.9949	3.69E-02	6.99E-02	8.26E-03	1.32E-03	1.16E-01
644 UCART3	557067.5	3777060	557067.54, 3777059.53	378.2919	414.3404	263.29916	263.1584	3.67E-02	7.15E-02	8.52E-03	1.36E-03	1.18E-01
645 UCART3	557087.5	3777060	557087.54, 3777059.53	359.3859	398.67412	261.81598	261.7655	3.49E-02	6.88E-02	8.47E-03	1.36E-03	1.14E-01
646 UCART2	556919	3777175	556919.02, 3777174.93	2363.015	2629.81271	1837.2639	1840.046	2.29E-01	4.54E-01	5.95E-02	9.53E-03	7.52E-01
647 UCART2	556939	3777175	556939.02, 3777174.93	1935.251	1993.36388	1364.26436	1367.327	1.88E-01	3.44E-01	4.42E-02	7.08E-03	5.83E-01
648 UCART2	556919	3777195	556919.02, 3777194.93	3623.853	4068.76602	2285.79853	2286.065	3.52E-01	7.02E-01	7.40E-02	1.18E-02	1.14E+00
649 UCART2	556939	3777195	556939.02, 3777194.93	2676.419	3012.01022	1802.71955	1803.665	2.60E-01	5.20E-01	5.83E-02	9.34E-03	8.47E-01
650 UCART2	556919	3777215	556919.02, 3777214.93	3074.132	3427.115	3210.4835	3220.797	2.98E-01	5.92E-01	1.04E-01	1.67E-02	1.01E+00

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
651 UCART2	556939	3777215	556939.02, 3777214.93	2461.333	2759.77451	2368.62011	2374.398	2.39E-01	4.76E-01	7.67E-02	1.23E-02	8.04E-01
652 UCART2	556919	3777235	556919.02, 3777234.93	2187.406	2376.17604	2926.79254	2935.397	2.12E-01	4.10E-01	9.47E-02	1.52E-02	7.32E-01
653 UCART2	556939	3777235	556939.02, 3777234.93	2062.491	2293.47114	2226.86098	2232.292	2.00E-01	3.96E-01	7.21E-02	1.16E-02	6.80E-01
654 UCART2	556919	3777255	556919.02, 3777254.93	1692.124	1854.69858	2270.63807	2274.812	1.64E-01	3.20E-01	7.35E-02	1.18E-02	5.70E-01
655 UCART2	556939	3777255	556939.02, 3777254.93	1381.825	1527.63652	1920.45157	1924.914	1.34E-01	2.64E-01	6.22E-02	9.97E-03	4.70E-01
656 UCART1	557023.6	3777172	557023.57, 3777171.57	889.9006	937.57107	555.43545	555.9437	8.64E-02	1.62E-01	1.80E-02	2.88E-03	2.69E-01
657 UCART1	557043.6	3777172	557043.57, 3777171.57	788.6456	836.27873	479.77411	480.2281	7.66E-02	1.44E-01	1.55E-02	2.49E-03	2.39E-01
658 UCART1	557063.6	3777172	557063.57, 3777171.57	702.9478	749.44237	422.54131	422.3719	6.82E-02	1.29E-01	1.37E-02	2.19E-03	2.13E-01
659 UCART1	557083.6	3777172	557083.57, 3777171.57	632.5259	677.20099	393.24141	393.1241	6.14E-02	1.17E-01	1.27E-02	2.04E-03	1.93E-01
660 UCART1	557023.6	3777192	557023.57, 3777191.57	1111.614	1247.62135	791.77437	792.0157	1.08E-01	2.15E-01	2.56E-02	4.10E-03	3.53E-01
661 UCART1	557043.6	3777192	557043.57, 3777191.57	957.4359	1074.83309	691.75337	692.0369	9.30E-02	1.86E-01	2.24E-02	3.58E-03	3.04E-01
662 UCART1	557063.6	3777192	557063.57, 3777191.57	834.3996	937.03185	609.2274	609.4798	8.10E-02	1.62E-01	1.97E-02	3.16E-03	2.66E-01
663 UCART1	557083.6	3777192	557083.57, 3777191.57	739.4865	830.32456	544.28459	544.5024	7.18E-02	1.43E-01	1.76E-02	2.82E-03	2.36E-01
664 UCART1	557023.6	3777212	557023.57, 3777211.57	1091.645	1224.89463	938.54955	939.5976	1.06E-01	2.11E-01	3.04E-02	4.87E-03	3.53E-01
665 UCART1	557043.6	3777212	557043.57, 3777211.57	939.5819	1052.55567	805.01538	805.8883	9.12E-02	1.82E-01	2.61E-02	4.17E-03	3.03E-01
666 UCART1	557063.6	3777212	557063.57, 3777211.57	813.6955	908.71147	699.74903	700.4375	7.90E-02	1.57E-01	2.26E-02	3.63E-03	2.62E-01
667 UCART1	557083.6	3777212	557083.57, 3777211.57	714.35	797.71956	607.62987	608.1939	6.94E-02	1.38E-01	1.97E-02	3.15E-03	2.30E-01
668 UCART1	557023.6	3777232	557023.57, 3777231.57	1067.832	1195.76601	922.28217	923.4075	1.04E-01	2.06E-01	2.98E-02	4.78E-03	3.45E-01
669 UCART1	557043.6	3777232	557043.57, 3777231.57	926.9317	1038.98171	789.21894	790.0478	9.00E-02	1.79E-01	2.55E-02	4.09E-03	2.99E-01
670 UCART1	557063.6	3777232	557063.57, 3777231.57	824.9773	925.30165	692.74796	693.5368	8.01E-02	1.60E-01	2.24E-02	3.59E-03	2.66E-01
671 UCART1	557083.6	3777232	557083.57, 3777231.57	713.2072	801.71325	597.07701	597.7189	6.92E-02	1.38E-01	1.93E-02	3.09E-03	2.30E-01
672 UCART1	557023.6	3777252	557023.57, 3777251.57	997.0273	1115.05366	901.27693	902.3963	9.68E-02	1.92E-01	2.92E-02	4.67E-03	3.23E-01
673 UCART1	557043.6	3777252	557043.57, 3777251.57	884.7186	989.70434	782.38892	783.299	8.59E-02	1.71E-01	2.53E-02	4.06E-03	2.86E-01
674 UCART1	557063.6	3777252	557063.57, 3777251.57	794.0595	890.00935	691.8337	692.5443	7.71E-02	1.54E-01	2.24E-02	3.59E-03	2.57E-01
675 UCART1	557083.6	3777252	557083.57, 3777251.57	680.5738	765.13249	583.89422	584.4607	6.61E-02	1.32E-01	1.89E-02	3.03E-03	2.20E-01
676 UCART2	556249.1	3776973	556249.05, 3776972.85	415.2621	448.21002	351.79488	351.7054	4.03E-02	7.74E-02	1.14E-02	1.82E-03	1.31E-01
677 UCART2	556269.1	3776973	556269.05, 3776972.85	421.4053	452.31955	386.69831	386.6064	4.09E-02	7.81E-02	1.25E-02	2.00E-03	1.33E-01
678 UCART2	556229.1	3776993	556229.05, 3776992.85	377.88	423.01428	375.73413	375.7217	3.67E-02	7.30E-02	1.22E-02	1.95E-03	1.24E-01
679 UCART2	556249.1	3776993	556249.05, 3776992.85	438.9194	471.41192	382.09108	382.0569	4.26E-02	8.14E-02	1.24E-02	1.98E-03	1.38E-01
680 UCART2	556269.1	3776993	556269.05, 3776992.85	453.807	486.68089	382.44799	382.3965	4.41E-02	8.40E-02	1.24E-02	1.98E-03	1.42E-01
681 UCART2	556289.1	3776993	556289.05, 3776992.85	467.194	506.75759	381.09911	381.025	4.54E-02	8.75E-02	1.23E-02	1.97E-03	1.47E-01
682 UCART2	556309.1	3776993	556309.05, 3776992.85	480.5576	519.6593	416.60514	416.4729	4.67E-02	8.97E-02	1.35E-02	2.16E-03	1.52E-01
683 UCART2	556329.1	3776993	556329.05, 3776992.85	486.6253	522.69795	457.22179	457.0751	4.72E-02	9.02E-02	1.48E-02	2.37E-03	1.55E-01
684 UCART2	556209.1	3777013	556209.05, 3777012.85	363.8641	407.64622	360.86476	360.8703	3.53E-02	7.04E-02	1.17E-02	1.87E-03	1.19E-01
685 UCART2	556229.1	3777013	556229.05, 3777012.85	372.6286	416.22394	390.75489	390.7277	3.62E-02	7.18E-02	1.26E-02	2.02E-03	1.23E-01
686 UCART2	556249.1	3777013	556249.05, 3777012.85	382.2117	427.86445	409.50078	409.4633	3.71E-02	7.38E-02	1.33E-02	2.12E-03	1.26E-01
687 UCART2	556269.1	3777013	556269.05, 3777012.85	405.2577	452.77118	422.7583	422.7148	3.93E-02	7.81E-02	1.37E-02	2.19E-03	1.33E-01
688 UCART2	556289.1	3777013	556289.05, 3777012.85	438.439	491.62406	431.0181	430.9675	4.26E-02	8.49E-02	1.39E-02	2.23E-03	1.44E-01
689 UCART2	556309.1	3777013	556309.05, 3777012.85	508.6166	547.4427	434.47524	434.4079	4.94E-02	9.45E-02	1.41E-02	2.25E-03	1.60E-01
690 UCART2	556329.1	3777013	556329.05, 3777012.85	527.2974	566.57345	434.22135	434.1356	5.12E-02	9.78E-02	1.41E-02	2.25E-03	1.65E-01
691 UCART2	556209.1	3777033	556209.05, 3777032.85	377.139	423.11399	370.59888	370.5973	3.66E-02	7.30E-02	1.20E-02	1.92E-03	1.24E-01
692 UCART2	556229.1	3777033	556229.05, 3777032.85	393.0483	441.28567	384.82887	384.8087	3.82E-02	7.62E-02	1.25E-02	1.99E-03	1.29E-01
693 UCART2	556249.1	3777033	556249.05, 3777032.85	406.8004	455.9301	394.18376	394.1486	3.95E-02	7.87E-02	1.28E-02	2.04E-03	1.33E-01
694 UCART2	556269.1	3777033	556269.05, 3777032.85	417.3367	465.61776	420.60114	420.5481	4.05E-02	8.04E-02	1.36E-02	2.18E-03	1.37E-01
695 UCART2	556289.1	3777033	556289.05, 3777032.85	431.668	483.29883	444.76421	444.71	4.19E-02	8.34E-02	1.44E-02	2.30E-03	1.42E-01
696 UCART2	556309.1	3777033	556309.05, 3777032.85	444.026	494.91891	467.77609	467.71	4.31E-02	8.54E-02	1.51E-02	2.42E-03	1.46E-01
697 UCART2	556209.1	3777053	556209.05, 3777052.85	373.0191	418.88115	365.68114	365.6655	3.62E-02	7.23E-02	1.18E-02	1.89E-03	1.22E-01
698 UCART2	556229.1	3777053	556229.05, 3777052.85	386.9834	434.2863	387.3055	387.2935	3.76E-02	7.50E-02	1.25E-02	2.01E-03	1.27E-01
699 UCART2	556249.1	3777053	556249.05, 3777052.85	400.1256	447.84738	406.27379	406.2575	3.88E-02	7.73E-02	1.31E-02	2.10E-03	1.31E-01
700 UCART2	556269.1	3777053	556269.05, 3777052.85	425.2282	475.37864	425.87388	425.8445	4.13E-02	8.21E-02	1.38E-02	2.21E-03	1.39E-01
701 UCART2	556289.1	3777053	556289.05, 3777052.85	450.332	505.20195	442.40986	442.3672	4.37E-02	8.72E-02	1.43E-02	2.29E-03	1.48E-01
702 UCART2	556309.1	3777053	556309.05, 3777052.85	473.1597	531.28093	455.4341	455.3772	4.59E-02	9.17E-02	1.47E-02	2.36E-03	1.55E-01
703 UCART2	556249.1	3777073	556249.05, 3777072.85	396.4349	441.70638	391.13992	391.1082	3.85E-02	7.62E-02	1.27E-02	2.03E-03	1.29E-01
704 UCART2	556269.1	3777073	556269.05, 3777072.85	421.3866	471.60338	414.15987	414.1203	4.09E-02	8.14E-02	1.34E-02	2.14E-03	1.38E-01
705 UCART2	556289.1	3777073	556289.05, 3777072.85	445.3624	499.80369	437.24441	437.1902	4.32E-02	8.63E-02	1.42E-02	2.26E-03	1.46E-01
706 UCART2	556269.1	3777093	556269.05, 3777092.85	435.5208	488.76705	405.92062	405.8936	4.23E-02	8.44E-02	1.31E-02	2.10E-03	1.42E-01
707 UCART1	556441.7	3776927	556441.69, 3776927.49	656.486	718.79474	539.97017	539.694	6.37E-02	1.24E-01	1.75E-02	2.79E-03	2.08E-01
708 UCART1	556461.7	3776927	556461.69, 3776927.49	712.5447	785.72955	544.13096	543.667	6.92E-02	1.36E-01	1.76E-02	2.82E-03	2.25E-01
709 UCART1	556481.7	3776927	556481.69, 3776927.49	691.7981	753.51453	566.38155	566.0643	6.72E-02	1.30E-01	1.83E-02	2.93E-03	2.18E-01
710 UCART1	556421.7	3776947	556421.69, 3776947.49	652.468	713.10849	559.31788	559.0504	6.33E-02	1.23E-01	1.81E-02	2.89E-03	2.07E-01
711 UCART1	556441.7	3776947	556441.69, 3776947.49	705.3926	773.56877	553.66718	553.4124	6.85E-02	1.34E-01	1.79E-02	2.87E-03	2.23E-01
712 UCART1	556461.7	3776947	556461.69, 3776947.49	720.7393	786.31897	589.45762	589.0687	7.00E-02	1.36E-01	1.91E-02	3.05E-03	2.28E-01
713 UCART1	556481.7	3776947	556481.69, 3776947.49	757.244	833.4804	581.4046	581.1858	7.35E-02	1.44E-01	1.88E-02	3.01E-03	2.39E-01
714 UCART1	556401.7	3776967	556401.69, 3776967.49	622.6534	676.15233	535.43245	535.1672	6.05E-02	1.17E-01	1.73E-02	2.77E-03	1.97E-01
715 UCART1	556421.7	3776967	556421.69, 3776967.49	645.0082	705.34358	560.85467	560.5419	6.26E-02	1.22E-01	1.82E-02	2.90E-03	2.05E-01

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
716 UCART1	556441.7	3776967	556441.69, 3776967.49	690.1324	752.95132	595.69134	595.3144	6.70E-02	1.30E-01	1.93E-02	3.08E-03	2.19E-01
717 UCART1	556461.7	3776967	556461.69, 3776967.49	734.3066	804.41603	608.84863	608.5468	7.13E-02	1.39E-01	1.97E-02	3.15E-03	2.33E-01
718 UCART1	556481.7	3776967	556481.69, 3776967.49	790.6657	865.92162	628.84623	628.3114	7.68E-02	1.49E-01	2.04E-02	3.25E-03	2.50E-01
719 UCART1	556401.7	3776987	556401.69, 3776987.49	652.0535	710.37634	542.12819	541.9531	6.33E-02	1.23E-01	1.75E-02	2.81E-03	2.06E-01
720 UCART1	556421.7	3776987	556421.69, 3776987.49	694.1133	759.35873	553.54349	553.2948	6.74E-02	1.31E-01	1.79E-02	2.86E-03	2.19E-01
721 UCART1	556441.7	3776987	556441.69, 3776987.49	699.4201	758.87832	597.70193	597.38	6.79E-02	1.31E-01	1.93E-02	3.09E-03	2.21E-01
722 UCART1	556461.7	3776987	556461.69, 3776987.49	724.0458	792.06657	628.96535	628.4787	7.03E-02	1.37E-01	2.04E-02	3.25E-03	2.31E-01
723 UCART1	556481.7	3776987	556481.69, 3776987.49	774.0836	842.52431	675.11567	674.7173	7.52E-02	1.45E-01	2.18E-02	3.49E-03	2.46E-01
724 UCART1	556421.7	3777007	556421.69, 3777007.49	666.1346	721.2795	596.49665	596.2181	6.47E-02	1.24E-01	1.93E-02	3.09E-03	2.12E-01
725 UCART1	556441.7	3777007	556441.69, 3777007.49	728.5743	793.92588	602.84401	602.5958	7.07E-02	1.37E-01	1.95E-02	3.12E-03	2.30E-01
726 UCART1	556461.7	3777007	556461.69, 3777007.49	782.7331	857.02024	620.3212	619.874	7.60E-02	1.48E-01	2.01E-02	3.21E-03	2.47E-01
727 UCART1	556481.7	3777007	556481.69, 3777007.49	792.534	859.92823	675.39146	675.0124	7.69E-02	1.48E-01	2.19E-02	3.50E-03	2.51E-01
728 UCART1	556441.7	3777027	556441.69, 3777027.49	662.7286	720.67415	627.90613	627.5112	6.43E-02	1.24E-01	2.03E-02	3.25E-03	2.12E-01
729 UCART1	556461.7	3777027	556461.69, 3777027.49	744.0124	804.30199	666.34066	665.9573	7.22E-02	1.39E-01	2.16E-02	3.45E-03	2.36E-01
730 UCART1	556481.7	3777027	556481.69, 3777027.49	813.8382	883.53023	685.39019	685.0785	7.90E-02	1.52E-01	2.22E-02	3.55E-03	2.57E-01
731 1	556251.2	3777155	556251.24, 3777154.95	437.796	491.70195	345.01039	344.8757	4.25E-02	8.49E-02	1.12E-02	1.79E-03	1.40E-01
732 1	556261.3	3777141	556261.28, 3777141.2	445.0725	499.25705	346.37124	346.2256	4.32E-02	8.62E-02	1.12E-02	1.79E-03	1.42E-01
733 1	556265	3777168	556264.98, 3777168.16	440.1076	490.82548	352.25062	352.1427	4.27E-02	8.47E-02	1.14E-02	1.82E-03	1.41E-01
734 1	556279.3	3777152	556279.25, 3777151.77	463.4993	519.49733	364.7696	364.6047	4.50E-02	8.97E-02	1.18E-02	1.89E-03	1.48E-01
735 1	556202.6	3777113	556202.6, 3777113.45	382.9083	428.6073	301.84396	301.7315	3.72E-02	7.40E-02	9.77E-03	1.56E-03	1.22E-01
736 1	556220.1	3777110	556220.05, 3777109.75	395.2227	443.74807	310.68367	310.5715	3.84E-02	7.66E-02	1.01E-02	1.61E-03	1.27E-01
737 1	556187.5	3777090	556187.53, 3777090.19	369.5944	414.35356	283.39159	283.2824	3.59E-02	7.15E-02	9.17E-03	1.47E-03	1.18E-01
738 1	556164.3	3777121	556164.27, 3777121.38	361.3204	404.93485	280.24771	280.1673	3.51E-02	6.99E-02	9.07E-03	1.45E-03	1.15E-01
739 UCART1	557510.3	3776508	557510.26, 3776508.23	114.5639	121.5498	108.95761	109.0316	1.11E-02	2.10E-02	3.53E-03	5.65E-04	3.62E-02
740 UCART1	557530.3	3776508	557530.26, 3776508.23	116.0165	124.07011	104.38857	104.3786	1.13E-02	2.14E-02	3.38E-03	5.40E-04	3.66E-02
741 UCART1	557550.3	3776508	557550.26, 3776508.23	113.8288	121.90777	105.73943	105.7547	1.11E-02	2.10E-02	3.42E-03	5.48E-04	3.61E-02
742 UCART1	557570.3	3776508	557570.26, 3776508.23	108.7344	115.9725	104.7241	104.7615	1.06E-02	2.00E-02	3.39E-03	5.42E-04	3.45E-02
743 UCART1	557590.3	3776508	557590.26, 3776508.23	101.8481	107.70321	101.8758	101.931	9.89E-03	1.86E-02	3.30E-03	5.28E-04	3.23E-02
744 UCART1	557610.3	3776508	557610.26, 3776508.23	93.79658	97.95361	97.57018	97.63863	9.11E-03	1.69E-02	3.16E-03	5.06E-04	2.97E-02
745 UCART1	557630.3	3776508	557630.26, 3776508.23	85.10117	90.70132	91.6076	91.68497	8.26E-03	1.57E-02	2.96E-03	4.75E-04	2.74E-02
746 UCART1	557650.3	3776508	557650.26, 3776508.23	80.17392	84.57945	84.74136	84.82341	7.78E-03	1.46E-02	2.74E-03	4.39E-04	2.56E-02
747 UCART1	557670.3	3776508	557670.26, 3776508.23	84.85361	88.39087	76.96818	77.05098	8.24E-03	1.53E-02	2.49E-03	3.99E-04	2.64E-02
748 UCART1	557690.3	3776508	557690.26, 3776508.23	87.51195	92.22313	77.91256	77.89281	8.50E-03	1.59E-02	2.52E-03	4.03E-04	2.73E-02
749 UCART1	557510.3	3776528	557510.26, 3776528.23	118.3583	126.25832	107.41162	107.4029	1.15E-02	2.18E-02	3.48E-03	5.56E-04	3.73E-02
750 UCART1	557530.3	3776528	557530.26, 3776528.23	115.872	123.7437	108.70458	108.7224	1.12E-02	2.14E-02	3.52E-03	5.63E-04	3.67E-02
751 UCART1	557550.3	3776528	557550.26, 3776528.23	110.6734	117.70131	107.65542	107.6962	1.07E-02	2.03E-02	3.48E-03	5.58E-04	3.51E-02
752 UCART1	557570.3	3776528	557570.26, 3776528.23	102.6321	108.08488	104.11631	104.1759	9.96E-03	1.87E-02	3.37E-03	5.39E-04	3.25E-02
753 UCART1	557590.3	3776528	557590.26, 3776528.23	93.99548	97.70858	99.32978	99.40282	9.13E-03	1.69E-02	3.21E-03	5.15E-04	2.97E-02
754 UCART1	557610.3	3776528	557610.26, 3776528.23	85.43018	90.63173	93.17999	93.26174	8.29E-03	1.56E-02	3.02E-03	4.83E-04	2.74E-02
755 UCART1	557630.3	3776528	557630.26, 3776528.23	83.14998	85.41144	86.06591	86.15198	8.07E-03	1.47E-02	2.79E-03	4.46E-04	2.60E-02
756 UCART1	557650.3	3776528	557650.26, 3776528.23	88.03836	91.87949	78.30741	78.39399	8.55E-03	1.59E-02	2.53E-03	4.06E-04	2.73E-02
757 UCART1	557670.3	3776528	557670.26, 3776528.23	90.26981	95.18393	81.22047	81.20449	8.76E-03	1.64E-02	2.63E-03	4.20E-04	2.82E-02
758 UCART1	557690.3	3776528	557690.26, 3776528.23	91.08321	96.67791	83.58014	83.57908	8.84E-03	1.67E-02	2.70E-03	4.33E-04	2.87E-02
759 UCART1	557510.3	3776548	557510.26, 3776548.23	116.9598	124.36858	111.35814	111.3796	1.14E-02	2.15E-02	3.60E-03	5.77E-04	3.70E-02
760 UCART1	557530.3	3776548	557530.26, 3776548.23	112.0674	118.72513	110.44779	110.4926	1.09E-02	2.05E-02	3.57E-03	5.72E-04	3.55E-02
761 UCART1	557550.3	3776548	557550.26, 3776548.23	103.0102	107.93775	106.27353	106.338	1.00E-02	1.86E-02	3.44E-03	5.51E-04	3.26E-02
762 UCART1	557570.3	3776548	557570.26, 3776548.23	93.28449	96.36111	100.67424	100.7524	9.06E-03	1.66E-02	3.26E-03	5.22E-04	2.95E-02
763 UCART1	557590.3	3776548	557590.26, 3776548.23	84.92238	89.51995	94.39239	94.47886	8.24E-03	1.55E-02	3.05E-03	4.89E-04	2.72E-02
764 UCART1	557610.3	3776548	557610.26, 3776548.23	85.14146	87.51018	86.93042	87.02062	8.27E-03	1.51E-02	2.81E-03	4.51E-04	2.66E-02
765 UCART1	557630.3	3776548	557630.26, 3776548.23	89.2839	93.05271	80.61734	80.59198	8.67E-03	1.61E-02	2.61E-03	4.17E-04	2.78E-02
766 UCART1	557650.3	3776548	557650.26, 3776548.23	92.09995	96.98961	84.28045	84.26982	8.94E-03	1.67E-02	2.73E-03	4.36E-04	2.88E-02
767 UCART1	557670.3	3776548	557670.26, 3776548.23	92.32934	97.74497	86.31435	86.31925	8.96E-03	1.69E-02	2.79E-03	4.47E-04	2.91E-02
768 UCART1	557690.3	3776548	557690.26, 3776548.23	91.32707	96.90502	87.24344	87.26239	8.87E-03	1.67E-02	2.82E-03	4.52E-04	2.89E-02
769 UCART1	557510.3	3776568	557510.26, 3776568.23	111.6221	117.46926	112.4561	112.5065	1.08E-02	2.03E-02	3.64E-03	5.83E-04	3.53E-02
770 UCART1	557530.3	3776568	557530.26, 3776568.23	103.9624	108.42386	108.92197	108.9916	1.01E-02	1.87E-02	3.52E-03	5.64E-04	3.29E-02
771 UCART1	557550.3	3776568	557550.26, 3776568.23	93.77736	96.37072	102.91159	102.9951	9.10E-03	1.66E-02	3.33E-03	5.33E-04	2.96E-02
772 UCART1	557570.3	3776568	557570.26, 3776568.23	83.91691	87.76497	95.46623	95.55786	8.15E-03	1.51E-02	3.09E-03	4.95E-04	2.69E-02
773 UCART1	557590.3	3776568	557590.26, 3776568.23	86.71716	89.02813	87.7863	87.88102	8.42E-03	1.54E-02	2.84E-03	4.55E-04	2.71E-02
774 UCART1	557610.3	3776568	557610.26, 3776568.23	89.89198	93.36881	83.39538	83.37718	8.73E-03	1.61E-02	2.70E-03	4.32E-04	2.80E-02
775 UCART1	557630.3	3776568	557630.26, 3776568.23	91.66829	96.0036	86.5313	86.52894	8.90E-03	1.66E-02	2.80E-03	4.48E-04	2.87E-02
776 UCART1	557650.3	3776568	557650.26, 3776568.23	92.55326	97.51059	88.71851	88.73066	8.99E-03	1.68E-02	2.87E-03	4.59E-04	2.91E-02
777 UCART1	557670.3	3776568	557670.26, 3776568.23	90.67274	95.5868	89.07656	89.10311	8.80E-03	1.65E-02	2.88E-03	4.61E-04	2.86E-02
778 UCART1	557690.3	3776568	557690.26, 3776568.23	87.40156	91.89944	88.17789	88.21689	8.49E-03	1.59E-02	2.85E-03	4.57E-04	2.77E-02
779 UCART1	557510.3	3776588	557510.26, 3776588.23	102.8005	106.32176	110.60109	110.6771	9.98E-03	1.84E-02	3.58E-03	5.73E-04	3.25E-02
780 UCART1	557530.3	3776588	557530.26, 3776588.23	93.89236	95.88935	105.0963	105.1857	9.12E-03	1.66E-02	3.40E-03	5.45E-04	2.96E-02

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
781 UCART1	557550.3	3776588	557550.26, 3776588.23	84.92936	87.57552	97.42639	97.5237	8.25E-03	1.51E-02	3.15E-03	5.05E-04	2.70E-02
782 UCART1	557570.3	3776588	557570.26, 3776588.23	87.79019	89.84456	88.63158	88.73132	8.52E-03	1.55E-02	2.87E-03	4.59E-04	2.74E-02
783 UCART1	557590.3	3776588	557590.26, 3776588.23	89.52785	92.40682	85.9741	85.96443	8.69E-03	1.59E-02	2.78E-03	4.45E-04	2.79E-02
784 UCART1	557610.3	3776588	557610.26, 3776588.23	90.26437	93.73337	88.54456	88.55164	8.76E-03	1.62E-02	2.87E-03	4.59E-04	2.83E-02
785 UCART1	557630.3	3776588	557630.26, 3776588.23	90.65254	94.61377	90.3142	90.3358	8.80E-03	1.63E-02	2.92E-03	4.68E-04	2.85E-02
786 UCART1	557650.3	3776588	557650.26, 3776588.23	89.302	93.33774	90.69408	90.72904	8.67E-03	1.61E-02	2.94E-03	4.70E-04	2.82E-02
787 UCART1	557670.3	3776588	557670.26, 3776588.23	86.21503	89.90005	89.64992	89.69655	8.37E-03	1.55E-02	2.90E-03	4.64E-04	2.73E-02
788 UCART1	557690.3	3776588	557690.26, 3776588.23	82.01969	85.0826	87.48222	87.53819	7.96E-03	1.47E-02	2.83E-03	4.53E-04	2.59E-02
789 UCART1	557510.3	3776608	557510.26, 3776608.23	91.56954	92.46863	106.11182	106.2084	8.89E-03	1.60E-02	3.43E-03	5.50E-04	2.88E-02
790 UCART1	557530.3	3776608	557530.26, 3776608.23	87.02914	87.8811	98.9414	99.04502	8.45E-03	1.52E-02	3.20E-03	5.13E-04	2.73E-02
791 UCART1	557550.3	3776608	557550.26, 3776608.23	89.58645	91.40406	90.04328	90.14872	8.70E-03	1.58E-02	2.91E-03	4.67E-04	2.79E-02
792 UCART1	557570.3	3776608	557570.26, 3776608.23	90.05937	92.40145	89.08999	89.08808	8.74E-03	1.59E-02	2.88E-03	4.61E-04	2.80E-02
793 UCART1	557590.3	3776608	557590.26, 3776608.23	88.72959	91.17865	90.65376	90.67084	8.61E-03	1.57E-02	2.93E-03	4.69E-04	2.78E-02
794 UCART1	557610.3	3776608	557610.26, 3776608.23	87.33613	89.87672	91.4066	91.43934	8.48E-03	1.55E-02	2.96E-03	4.73E-04	2.74E-02
795 UCART1	557630.3	3776608	557630.26, 3776608.23	85.91266	88.54814	91.46531	91.51057	8.34E-03	1.53E-02	2.96E-03	4.74E-04	2.71E-02
796 UCART1	557650.3	3776608	557650.26, 3776608.23	82.80679	85.14877	90.09286	90.14882	8.04E-03	1.47E-02	2.92E-03	4.67E-04	2.61E-02
797 UCART1	557670.3	3776608	557670.26, 3776608.23	78.29969	80.03876	87.42021	87.4846	7.60E-03	1.38E-02	2.83E-03	4.53E-04	2.47E-02
798 UCART1	557690.3	3776608	557690.26, 3776608.23	73.01841	74.90597	83.79625	83.86646	7.09E-03	1.29E-02	2.71E-03	4.34E-04	2.32E-02
799 UCART1	557510.3	3776628	557510.26, 3776628.23	87.22364	87.47923	99.59978	99.71078	8.47E-03	1.51E-02	3.22E-03	5.16E-04	2.73E-02
800 UCART1	557530.3	3776628	557530.26, 3776628.23	90.07189	91.2653	91.04096	91.15275	8.74E-03	1.58E-02	2.95E-03	4.72E-04	2.79E-02
801 UCART1	557550.3	3776628	557550.26, 3776628.23	89.40471	90.81813	91.88914	91.89721	8.68E-03	1.57E-02	2.97E-03	4.76E-04	2.78E-02
802 UCART1	557570.3	3776628	557570.26, 3776628.23	89.85174	91.78028	94.04318	94.06818	8.72E-03	1.58E-02	3.04E-03	4.87E-04	2.81E-02
803 UCART1	557590.3	3776628	557590.26, 3776628.23	84.70911	85.85581	92.86859	92.91277	8.22E-03	1.48E-02	3.01E-03	4.81E-04	2.65E-02
804 UCART1	557610.3	3776628	557610.26, 3776628.23	81.56215	82.45623	91.78819	91.84547	7.92E-03	1.42E-02	2.97E-03	4.76E-04	2.56E-02
805 UCART1	557630.3	3776628	557630.26, 3776628.23	78.13928	78.76342	89.89158	89.95855	7.59E-03	1.36E-02	2.91E-03	4.66E-04	2.46E-02
806 UCART1	557650.3	3776628	557650.26, 3776628.23	74.57834	74.93252	87.34414	87.41763	7.24E-03	1.29E-02	2.83E-03	4.53E-04	2.35E-02
807 UCART1	557670.3	3776628	557670.26, 3776628.23	70.50088	71.85181	83.4349	83.51287	6.84E-03	1.24E-02	2.70E-03	4.32E-04	2.24E-02
808 UCART1	557690.3	3776628	557690.26, 3776628.23	68.9201	70.26797	78.92885	79.00872	6.69E-03	1.21E-02	2.55E-03	4.09E-04	2.18E-02
809 UCART1	557510.3	3776648	557510.26, 3776648.23	88.36496	88.2706	92.06633	92.06509	8.58E-03	1.52E-02	2.98E-03	4.77E-04	2.73E-02
810 UCART1	557530.3	3776648	557530.26, 3776648.23	87.62613	87.68432	94.36772	94.38797	8.51E-03	1.51E-02	3.05E-03	4.89E-04	2.72E-02
811 UCART1	557550.3	3776648	557550.26, 3776648.23	84.51758	84.22821	94.69982	94.73944	8.21E-03	1.45E-02	3.06E-03	4.91E-04	2.63E-02
812 UCART1	557570.3	3776648	557570.26, 3776648.23	79.93795	79.0133	93.43069	93.48654	7.76E-03	1.36E-02	3.02E-03	4.84E-04	2.49E-02
813 UCART1	557590.3	3776648	557590.26, 3776648.23	76.96844	75.9288	92.06047	92.12811	7.47E-03	1.31E-02	2.98E-03	4.77E-04	2.40E-02
814 UCART1	557610.3	3776648	557610.26, 3776648.23	72.35818	70.87333	89.16852	89.24512	7.03E-03	1.22E-02	2.89E-03	4.62E-04	2.26E-02
815 UCART1	557630.3	3776648	557630.26, 3776648.23	68.67674	67.05851	86.1081	86.19035	6.67E-03	1.16E-02	2.79E-03	4.46E-04	2.15E-02
816 UCART1	557650.3	3776648	557650.26, 3776648.23	67.11103	66.94269	82.46365	82.5489	6.52E-03	1.16E-02	2.67E-03	4.27E-04	2.12E-02
817 UCART1	557670.3	3776648	557670.26, 3776648.23	64.88375	64.61557	77.55033	77.63614	6.30E-03	1.12E-02	2.51E-03	4.02E-04	2.04E-02
818 UCART1	557690.3	3776648	557690.26, 3776648.23	62.50729	62.15061	74.2742	74.33472	6.07E-03	1.07E-02	2.40E-03	3.85E-04	1.96E-02
819 UCART1	557510.3	3776668	557510.26, 3776668.23	83.36251	81.23428	96.07999	96.11215	8.09E-03	1.40E-02	3.11E-03	4.98E-04	2.57E-02
820 UCART1	557530.3	3776668	557530.26, 3776668.23	80.58635	78.22264	96.2696	96.32008	7.82E-03	1.35E-02	3.12E-03	4.99E-04	2.49E-02
821 UCART1	557550.3	3776668	557550.26, 3776668.23	75.80352	72.81422	94.60484	94.67073	7.36E-03	1.26E-02	3.06E-03	4.90E-04	2.35E-02
822 UCART1	557570.3	3776668	557570.26, 3776668.23	70.51112	66.89975	91.78998	91.8674	6.85E-03	1.15E-02	2.97E-03	4.76E-04	2.18E-02
823 UCART1	557590.3	3776668	557590.26, 3776668.23	68.08725	64.76086	89.47594	89.56061	6.61E-03	1.12E-02	2.90E-03	4.64E-04	2.11E-02
824 UCART1	557610.3	3776668	557610.26, 3776668.23	61.46416	58.50171	84.48778	84.57721	5.97E-03	1.01E-02	2.73E-03	4.38E-04	1.92E-02
825 UCART1	557630.3	3776668	557630.26, 3776668.23	60.28443	57.52537	80.24672	80.33767	5.85E-03	9.93E-03	2.60E-03	4.16E-04	1.88E-02
826 UCART1	557650.3	3776668	557650.26, 3776668.23	59.73691	57.4484	75.96864	76.05881	5.80E-03	9.92E-03	2.46E-03	3.94E-04	1.86E-02
827 UCART1	557670.3	3776668	557670.26, 3776668.23	61.20772	59.45257	73.40641	73.47431	5.94E-03	1.03E-02	2.38E-03	3.80E-04	1.90E-02
828 UCART1	557690.3	3776668	557690.26, 3776668.23	64.55794	61.55991	70.95625	71.02696	6.27E-03	1.06E-02	2.30E-03	3.68E-04	1.96E-02
829 UCART1	557510.3	3776688	557510.26, 3776688.23	74.96763	69.8782	97.56742	97.62964	7.28E-03	1.21E-02	3.16E-03	5.06E-04	2.30E-02
830 UCART1	557530.3	3776688	557530.26, 3776688.23	45.44688	50.44382	95.60172	95.67826	4.41E-03	8.71E-03	3.09E-03	4.95E-04	1.67E-02
831 UCART1	557550.3	3776688	557550.26, 3776688.23	43.54386	48.1183	91.85646	91.94376	4.23E-03	8.31E-03	2.97E-03	4.76E-04	1.60E-02
832 UCART1	557570.3	3776688	557570.26, 3776688.23	41.35316	45.44243	87.64125	87.73507	4.01E-03	7.84E-03	2.84E-03	4.54E-04	1.51E-02
833 UCART1	557590.3	3776688	557590.26, 3776688.23	42.00647	44.40758	83.28132	83.37808	4.08E-03	7.66E-03	2.70E-03	4.32E-04	1.49E-02
834 UCART1	557610.3	3776688	557610.26, 3776688.23	44.40597	46.15177	78.07128	78.16819	4.31E-03	7.97E-03	2.53E-03	4.05E-04	1.52E-02
835 UCART1	557630.3	3776688	557630.26, 3776688.23	46.8206	47.74464	73.42547	73.49218	4.55E-03	8.24E-03	2.38E-03	3.81E-04	1.55E-02
836 UCART1	557650.3	3776688	557650.26, 3776688.23	48.88055	50.77246	71.84631	71.91649	4.75E-03	8.76E-03	2.33E-03	3.72E-04	1.62E-02
837 UCART1	557670.3	3776688	557670.26, 3776688.23	50.56732	53.41256	69.3731	69.34774	4.91E-03	9.22E-03	2.25E-03	3.59E-04	1.67E-02
838 UCART1	557690.3	3776688	557690.26, 3776688.23	51.86326	55.57033	72.98488	72.97164	5.04E-03	9.59E-03	2.36E-03	3.78E-04	1.74E-02
839 UCART1	556172.5	3776518	556172.49, 3776517.81	273.0557	304.4796	211.82166	211.6698	2.65E-02	5.26E-02	6.86E-03	1.10E-03	8.70E-02
840 UCART1	556192.5	3776518	556192.49, 3776517.81	285.8137	318.34086	214.58759	214.495	2.77E-02	5.49E-02	6.94E-03	1.11E-03	9.07E-02
841 UCART1	556212.5	3776518	556212.49, 3776517.81	279.9222	311.14803	208.50677	208.3129	2.72E-02	5.37E-02	6.75E-03	1.08E-03	8.87E-02
842 UCART1	556232.5	3776518	556232.49, 3776517.81	283.3557	315.67526	210.36852	210.2439	2.75E-02	5.45E-02	6.81E-03	1.09E-03	8.99E-02
843 UCART1	556252.5	3776518	556252.49, 3776517.81	283.9668	316.64626	206.10235	205.8901	2.76E-02	5.47E-02	6.67E-03	1.07E-03	9.00E-02
844 UCART1	556272.5	3776518	556272.49, 3776517.81	288.4109	320.98883	214.29129	214.1517	2.80E-02	5.54E-02	6.93E-03	1.11E-03	9.14E-02
845 UCART1	556292.5	3776518	556292.49, 3776517.81	293.7527	327.52045	207.42486	207.1918	2.85E-02	5.65E-02	6.71E-03	1.07E-03	9.28E-02

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
846 UCART1	556312.5	3776518	556312.49, 3776517.81	289.1998	321.97934	214.06273	213.9207	2.81E-02	5.56E-02	6.93E-03	1.11E-03	9.17E-02
847 UCART1	556332.5	3776518	556332.49, 3776517.81	294.0303	327.38144	217.76712	217.6317	2.85E-02	5.65E-02	7.05E-03	1.13E-03	9.32E-02
848 UCART1	556352.5	3776518	556352.49, 3776517.81	291.6838	324.31925	206.91726	206.8101	2.83E-02	5.60E-02	6.70E-03	1.07E-03	9.21E-02
849 UCART1	556372.5	3776518	556372.49, 3776517.81	266.8295	296.01707	197.35232	197.271	2.59E-02	5.11E-02	6.39E-03	1.02E-03	8.44E-02
850 UCART1	556392.5	3776518	556392.49, 3776517.81	287.9964	317.89544	215.0583	214.8317	2.80E-02	5.49E-02	6.96E-03	1.11E-03	9.09E-02
851 UCART1	556412.5	3776518	556412.49, 3776517.81	304.2226	340.32227	211.38007	211.2708	2.95E-02	5.87E-02	6.84E-03	1.09E-03	9.62E-02
852 UCART1	556432.5	3776518	556432.49, 3776517.81	277.3133	308.61632	206.15722	206.0289	2.69E-02	5.33E-02	6.67E-03	1.07E-03	8.79E-02
853 UCART1	556452.5	3776518	556452.49, 3776517.81	274.286	306.35356	220.56848	220.3839	2.66E-02	5.29E-02	7.14E-03	1.14E-03	8.78E-02
854 UCART1	556472.5	3776518	556472.49, 3776517.81	294.2403	326.00287	228.87506	228.8187	2.86E-02	5.63E-02	7.41E-03	1.18E-03	9.34E-02
855 UCART1	556492.5	3776518	556492.49, 3776517.81	281.3725	307.71964	213.61017	213.6865	2.73E-02	5.31E-02	6.91E-03	1.11E-03	8.84E-02
856 UCART1	556172.5	3776538	556172.49, 3776537.81	264.1296	290.48586	212.52581	212.3922	2.56E-02	5.01E-02	6.88E-03	1.10E-03	8.38E-02
857 UCART1	556192.5	3776538	556192.49, 3776537.81	282.3158	314.77192	218.87183	218.7131	2.74E-02	5.43E-02	7.08E-03	1.13E-03	9.00E-02
858 UCART1	556212.5	3776538	556212.49, 3776537.81	293.5904	327.18797	218.67687	218.5804	2.85E-02	5.65E-02	7.08E-03	1.13E-03	9.32E-02
859 UCART1	556232.5	3776538	556232.49, 3776537.81	288.8877	320.86807	216.51448	216.3162	2.80E-02	5.54E-02	7.01E-03	1.12E-03	9.16E-02
860 UCART1	556252.5	3776538	556252.49, 3776537.81	294.3895	328.25444	216.86854	216.7461	2.86E-02	5.67E-02	7.02E-03	1.12E-03	9.34E-02
861 UCART1	556272.5	3776538	556272.49, 3776537.81	290.7764	323.78713	213.48532	213.2721	2.82E-02	5.59E-02	6.91E-03	1.10E-03	9.21E-02
862 UCART1	556292.5	3776538	556292.49, 3776537.81	302.2266	336.8579	222.20402	222.0718	2.93E-02	5.81E-02	7.19E-03	1.15E-03	9.58E-02
863 UCART1	556312.5	3776538	556312.49, 3776537.81	302.5305	336.48883	218.6257	218.398	2.94E-02	5.81E-02	7.08E-03	1.13E-03	9.57E-02
864 UCART1	556332.5	3776538	556332.49, 3776537.81	307.3113	342.72511	225.06616	224.9419	2.98E-02	5.92E-02	7.28E-03	1.16E-03	9.74E-02
865 UCART1	556352.5	3776538	556352.49, 3776537.81	308.4533	344.11408	224.78194	224.6689	2.99E-02	5.94E-02	7.27E-03	1.16E-03	9.78E-02
866 UCART1	556372.5	3776538	556372.49, 3776537.81	292.6088	323.6431	209.72032	209.6436	2.84E-02	5.59E-02	6.79E-03	1.09E-03	9.21E-02
867 UCART1	556392.5	3776538	556392.49, 3776537.81	275.3289	306.92777	207.10403	206.8037	2.67E-02	5.30E-02	6.70E-03	1.07E-03	8.75E-02
868 UCART1	556412.5	3776538	556412.49, 3776537.81	306.2962	340.75032	221.74507	221.5484	2.97E-02	5.88E-02	7.18E-03	1.15E-03	9.69E-02
869 UCART1	556432.5	3776538	556432.49, 3776537.81	309.7181	345.45555	211.20087	211.1336	3.01E-02	5.96E-02	6.83E-03	1.09E-03	9.76E-02
870 UCART1	556452.5	3776538	556452.49, 3776537.81	288.3725	322.71879	215.38518	215.1301	2.80E-02	5.57E-02	6.97E-03	1.11E-03	9.18E-02
871 UCART1	556472.5	3776538	556472.49, 3776537.81	294.139	323.38747	236.82326	236.6852	2.86E-02	5.58E-02	7.66E-03	1.23E-03	9.33E-02
872 UCART1	556492.5	3776538	556492.49, 3776537.81	305.9054	338.11082	234.47896	234.4864	2.97E-02	5.84E-02	7.59E-03	1.21E-03	9.69E-02
873 UCART1	556332.5	3776558	556332.49, 3776557.81	316.7857	350.9393	236.13875	235.9192	3.08E-02	6.06E-02	7.64E-03	1.22E-03	1.00E-01
874 UCART1	556352.5	3776558	556352.49, 3776557.81	319.0325	356.16087	232.63436	232.4254	3.10E-02	6.15E-02	7.53E-03	1.20E-03	1.01E-01
875 UCART1	556372.5	3776558	556372.49, 3776557.81	320.5384	357.6858	229.70491	229.6184	3.11E-02	6.17E-02	7.43E-03	1.19E-03	1.01E-01
876 UCART1	556392.5	3776558	556392.49, 3776557.81	299.1395	333.52761	216.90737	216.7598	2.90E-02	5.76E-02	7.02E-03	1.12E-03	9.48E-02
877 UCART1	556412.5	3776558	556412.49, 3776557.81	298.0939	325.11012	230.96782	230.6798	2.89E-02	5.61E-02	7.47E-03	1.19E-03	9.37E-02
878 UCART1	556432.5	3776558	556432.49, 3776557.81	328.0227	366.27252	232.41775	232.2584	3.18E-02	6.32E-02	7.52E-03	1.20E-03	1.04E-01
879 UCART1	556452.5	3776558	556452.49, 3776557.81	308.5151	341.64452	219.99631	219.8177	3.00E-02	5.90E-02	7.12E-03	1.14E-03	9.72E-02
880 UCART1	556472.5	3776558	556472.49, 3776557.81	304.4501	340.21483	236.95557	236.733	2.96E-02	5.87E-02	7.67E-03	1.23E-03	9.72E-02
881 UCART1	556492.5	3776558	556492.49, 3776557.81	317.8443	351.47348	249.58328	249.5057	3.09E-02	6.07E-02	8.08E-03	1.29E-03	1.01E-01
882 UCART1	556332.5	3776578	556332.49, 3776577.81	335.2413	373.864	243.07937	242.9696	3.25E-02	6.45E-02	7.87E-03	1.26E-03	1.06E-01
883 UCART1	556352.5	3776578	556352.49, 3776577.81	323.4431	356.9006	246.52574	246.3281	3.14E-02	6.16E-02	7.98E-03	1.28E-03	1.02E-01
884 UCART1	556372.5	3776578	556372.49, 3776577.81	335.3224	373.97763	246.97936	246.789	3.26E-02	6.45E-02	7.99E-03	1.28E-03	1.06E-01
885 UCART1	556392.5	3776578	556392.49, 3776577.81	334.427	372.42488	237.05055	236.9959	3.25E-02	6.43E-02	7.67E-03	1.23E-03	1.06E-01
886 UCART1	556412.5	3776578	556412.49, 3776577.81	314.0594	348.6956	231.02404	230.915	3.05E-02	6.02E-02	7.48E-03	1.20E-03	9.93E-02
887 UCART1	556432.5	3776578	556432.49, 3776577.81	326.4752	359.94651	244.99268	244.7314	3.17E-02	6.21E-02	7.93E-03	1.27E-03	1.03E-01
888 UCART1	556452.5	3776578	556452.49, 3776577.81	342.6096	382.60292	237.72498	237.6119	3.33E-02	6.60E-02	7.69E-03	1.23E-03	1.08E-01
889 UCART1	556472.5	3776578	556472.49, 3776577.81	320.507	357.38337	235.22535	235.1119	3.11E-02	6.17E-02	7.61E-03	1.22E-03	1.02E-01
890 UCART1	556492.5	3776578	556492.49, 3776577.81	317.1582	352.03676	257.43932	257.2667	3.08E-02	6.08E-02	8.33E-03	1.33E-03	1.01E-01
891 UCART1	556332.5	3776598	556332.49, 3776597.81	333.2986	367.77599	260.35019	260.1443	3.24E-02	6.35E-02	8.43E-03	1.35E-03	1.06E-01
892 UCART1	556352.5	3776598	556352.49, 3776597.81	352.961	393.29992	254.77792	254.6838	3.43E-02	6.79E-02	8.25E-03	1.32E-03	1.12E-01
893 UCART1	556372.5	3776598	556372.49, 3776597.81	340.052	376.76208	258.44206	258.2619	3.30E-02	6.50E-02	8.36E-03	1.34E-03	1.08E-01
894 UCART1	556392.5	3776598	556392.49, 3776597.81	343.746	382.64477	254.37651	254.2102	3.34E-02	6.60E-02	8.23E-03	1.32E-03	1.09E-01
895 UCART1	556412.5	3776598	556412.49, 3776597.81	344.8231	382.47913	245.83827	245.7237	3.35E-02	6.60E-02	7.96E-03	1.27E-03	1.09E-01
896 UCART1	556432.5	3776598	556432.49, 3776597.81	319.1428	355.0664	246.27957	245.9189	3.10E-02	6.13E-02	7.97E-03	1.27E-03	1.02E-01
897 UCART1	556452.5	3776598	556452.49, 3776597.81	347.3104	385.96206	251.87814	251.6553	3.37E-02	6.66E-02	8.15E-03	1.30E-03	1.10E-01
898 UCART1	556472.5	3776598	556472.49, 3776597.81	348.7483	387.93163	237.74901	237.5063	3.39E-02	6.70E-02	7.69E-03	1.23E-03	1.10E-01
899 UCART1	556492.5	3776598	556492.49, 3776597.81	341.1723	380.83172	256.47351	256.2045	3.31E-02	6.57E-02	8.30E-03	1.33E-03	1.08E-01
900 UCART1	556252.5	3776618	556252.49, 3776617.81	310.6949	340.43567	254.30569	254.1401	3.02E-02	5.88E-02	8.23E-03	1.32E-03	9.85E-02
901 UCART1	556272.5	3776618	556272.49, 3776617.81	334.1154	371.76787	261.99387	261.8134	3.24E-02	6.42E-02	8.48E-03	1.36E-03	1.06E-01
902 UCART1	556292.5	3776618	556292.49, 3776617.81	348.8323	388.18048	259.61354	259.52	3.39E-02	6.70E-02	8.40E-03	1.34E-03	1.11E-01
903 UCART1	556312.5	3776618	556312.49, 3776617.81	342.106	377.83409	267.56343	267.361	3.32E-02	6.52E-02	8.66E-03	1.38E-03	1.08E-01
904 UCART1	556332.5	3776618	556332.49, 3776617.81	356.6105	397.55562	258.20768	258.1165	3.46E-02	6.86E-02	8.36E-03	1.34E-03	1.13E-01
905 UCART1	556352.5	3776618	556352.49, 3776617.81	354.2445	391.32815	274.02897	273.8296	3.44E-02	6.75E-02	8.87E-03	1.42E-03	1.12E-01
906 UCART1	556372.5	3776618	556372.49, 3776617.81	371.2836	413.04196	267.05066	266.976	3.60E-02	7.13E-02	8.64E-03	1.38E-03	1.17E-01
907 UCART1	556392.5	3776618	556392.49, 3776617.81	363.0186	403.3243	271.42806	271.2706	3.52E-02	6.96E-02	8.78E-03	1.40E-03	1.15E-01
908 UCART1	556412.5	3776618	556412.49, 3776617.81	368.8148	410.35581	272.2979	272.1731	3.58E-02	7.08E-02	8.81E-03	1.41E-03	1.17E-01
909 UCART1	556432.5	3776618	556432.49, 3776617.81	349.2494	385.73941	251.33319	251.2617	3.39E-02	6.66E-02	8.13E-03	1.30E-03	1.10E-01
910 UCART1	556452.5	3776618	556452.49, 3776617.81	342.0458	372.35874	267.76272	267.4222	3.32E-02	6.43E-02	8.67E-03	1.38E-03	1.08E-01

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID				Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y									total
911 UCART1	556472.5	3776618	556472.49, 3776617.81	369.9932	412.65902	261.48984	261.3156	3.59E-02	7.12E-02	8.46E-03	1.35E-03	1.17E-01
912 UCART1	556492.5	3776618	556492.49, 3776617.81	360.0279	396.64863	258.4049	258.2306	3.50E-02	6.85E-02	8.36E-03	1.34E-03	1.13E-01
913 UCART1	556252.5	3776638	556252.49, 3776637.81	343.7817	379.59609	249.45232	249.2055	3.34E-02	6.55E-02	8.07E-03	1.29E-03	1.08E-01
914 UCART1	556272.5	3776638	556272.49, 3776637.81	325.1137	355.82226	267.59644	267.4212	3.16E-02	6.14E-02	8.66E-03	1.38E-03	1.03E-01
915 UCART1	556292.5	3776638	556292.49, 3776637.81	349.9899	389.17519	275.3519	275.1636	3.40E-02	6.72E-02	8.91E-03	1.42E-03	1.11E-01
916 UCART1	556312.5	3776638	556312.49, 3776637.81	364.2696	405.24728	270.37712	270.2828	3.54E-02	6.99E-02	8.75E-03	1.40E-03	1.15E-01
917 UCART1	556332.5	3776638	556332.49, 3776637.81	357.313	393.98821	282.0465	281.843	3.47E-02	6.80E-02	9.13E-03	1.46E-03	1.13E-01
918 UCART1	556352.5	3776638	556352.49, 3776637.81	378.3324	421.23727	275.76383	275.4669	3.67E-02	7.27E-02	8.92E-03	1.43E-03	1.20E-01
919 UCART1	556372.5	3776638	556372.49, 3776637.81	378.7023	419.08963	290.86565	290.6857	3.68E-02	7.23E-02	9.41E-03	1.51E-03	1.20E-01
920 UCART1	556392.5	3776638	556392.49, 3776637.81	383.6025	426.07415	280.30231	280.0147	3.72E-02	7.35E-02	9.07E-03	1.45E-03	1.21E-01
921 UCART1	556412.5	3776638	556412.49, 3776637.81	384.389	427.71645	283.96886	283.711	3.73E-02	7.38E-02	9.19E-03	1.47E-03	1.22E-01
922 UCART1	556432.5	3776638	556432.49, 3776637.81	384.1525	427.61799	277.68033	277.593	3.73E-02	7.38E-02	8.99E-03	1.44E-03	1.22E-01
923 UCART1	556452.5	3776638	556452.49, 3776637.81	358.4733	398.33245	262.19549	262.0481	3.48E-02	6.88E-02	8.49E-03	1.36E-03	1.13E-01
924 UCART1	556472.5	3776638	556472.49, 3776637.81	374.2088	411.97778	282.51055	282.2052	3.63E-02	7.11E-02	9.14E-03	1.46E-03	1.18E-01
925 UCART1	556492.5	3776638	556492.49, 3776637.81	396.9911	442.11133	276.81206	276.699	3.85E-02	7.63E-02	8.96E-03	1.43E-03	1.25E-01
926 UCART1	556252.5	3776658	556252.49, 3776657.81	365.7504	406.01898	278.76181	278.6724	3.55E-02	7.01E-02	9.02E-03	1.44E-03	1.16E-01
927 UCART1	556272.5	3776658	556272.49, 3776657.81	364.6589	402.81648	263.90548	263.6438	3.54E-02	6.95E-02	8.54E-03	1.37E-03	1.15E-01
928 UCART1	556292.5	3776658	556292.49, 3776657.81	340.8882	372.60704	282.68232	282.4978	3.31E-02	6.43E-02	9.15E-03	1.46E-03	1.08E-01
929 UCART1	556312.5	3776658	556312.49, 3776657.81	363.62	404.33019	285.25364	285.0543	3.53E-02	6.98E-02	9.23E-03	1.48E-03	1.16E-01
930 UCART1	556332.5	3776658	556332.49, 3776657.81	385.0891	427.91456	287.03795	286.9462	3.74E-02	7.39E-02	9.29E-03	1.49E-03	1.22E-01
931 UCART1	556352.5	3776658	556352.49, 3776657.81	379.9572	418.69301	299.08109	298.8782	3.69E-02	7.23E-02	9.68E-03	1.55E-03	1.20E-01
932 UCART1	556372.5	3776658	556372.49, 3776657.81	401.3992	446.17699	298.09068	297.7918	3.90E-02	7.70E-02	9.65E-03	1.54E-03	1.27E-01
933 UCART1	556392.5	3776658	556392.49, 3776657.81	396.2259	439.51004	298.97339	298.8042	3.85E-02	7.59E-02	9.68E-03	1.55E-03	1.26E-01
934 UCART1	556412.5	3776658	556412.49, 3776657.81	395.7986	438.4971	294.72629	294.4527	3.84E-02	7.57E-02	9.54E-03	1.52E-03	1.25E-01
935 UCART1	556432.5	3776658	556432.49, 3776657.81	400.1359	445.44423	295.67627	295.4438	3.88E-02	7.69E-02	9.57E-03	1.53E-03	1.27E-01
936 UCART1	556452.5	3776658	556452.49, 3776657.81	396.6554	440.80651	281.0001	280.8306	3.85E-02	7.61E-02	9.09E-03	1.45E-03	1.25E-01
937 UCART1	556472.5	3776658	556472.49, 3776657.81	366.2149	404.81777	282.72613	282.2927	3.56E-02	6.99E-02	9.15E-03	1.46E-03	1.16E-01
938 UCART1	556492.5	3776658	556492.49, 3776657.81	409.4221	453.95328	300.42933	300.1734	3.97E-02	7.84E-02	9.72E-03	1.55E-03	1.29E-01
939 UCART1	556252.5	3776678	556252.49, 3776677.81	352.3096	390.43775	294.00266	293.8179	3.42E-02	6.74E-02	9.51E-03	1.52E-03	1.13E-01
940 UCART1	556272.5	3776678	556272.49, 3776677.81	379.1583	420.6153	290.40076	290.2948	3.68E-02	7.26E-02	9.40E-03	1.50E-03	1.20E-01
941 UCART1	556292.5	3776678	556292.49, 3776677.81	380.6734	421.18234	272.03598	271.8311	3.70E-02	7.27E-02	8.80E-03	1.41E-03	1.20E-01
942 UCART1	556312.5	3776678	556312.49, 3776677.81	352.7925	385.41774	292.287	292.0864	3.43E-02	6.65E-02	9.46E-03	1.51E-03	1.12E-01
943 UCART1	556332.5	3776678	556332.49, 3776677.81	385.961	428.53712	305.92433	305.7193	3.75E-02	7.40E-02	9.90E-03	1.58E-03	1.23E-01
944 UCART1	556352.5	3776678	556352.49, 3776677.81	406.4789	451.20509	303.83599	303.7472	3.95E-02	7.79E-02	9.83E-03	1.57E-03	1.29E-01
945 UCART1	556372.5	3776678	556372.49, 3776677.81	402.8282	444.41536	315.22448	315.023	3.91E-02	7.67E-02	1.02E-02	1.63E-03	1.28E-01
946 UCART1	556392.5	3776678	556392.49, 3776677.81	414.526	460.55051	309.8266	309.5246	4.02E-02	7.95E-02	1.00E-02	1.60E-03	1.31E-01
947 UCART1	556412.5	3776678	556412.49, 3776677.81	421.7392	468.13439	315.36347	315.2115	4.09E-02	8.08E-02	1.02E-02	1.63E-03	1.34E-01
948 UCART1	556432.5	3776678	556432.49, 3776677.81	406.9972	449.29587	308.85706	308.6041	3.95E-02	7.75E-02	1.00E-02	1.60E-03	1.29E-01
949 UCART1	556452.5	3776678	556452.49, 3776677.81	414.8968	461.26007	307.17953	306.9809	4.03E-02	7.96E-02	9.94E-03	1.59E-03	1.31E-01
950 UCART1	556472.5	3776678	556472.49, 3776677.81	408.594	452.12901	291.43654	291.3195	3.97E-02	7.80E-02	9.43E-03	1.51E-03	1.29E-01
951 UCART1	556492.5	3776678	556492.49, 3776677.81	392.8042	426.78527	310.38138	309.973	3.81E-02	7.37E-02	1.00E-02	1.61E-03	1.23E-01
952 UCART1	556252.5	3776698	556252.49, 3776697.81	351.0789	388.47681	286.34553	286.0738	3.41E-02	6.71E-02	9.27E-03	1.48E-03	1.12E-01
953 UCART1	556272.5	3776698	556272.49, 3776697.81	365.1209	404.14181	304.56071	304.3506	3.54E-02	6.98E-02	9.86E-03	1.58E-03	1.17E-01
954 UCART1	556372.5	3776698	556372.49, 3776697.81	426.7844	473.49638	319.18614	318.8461	4.14E-02	8.17E-02	1.03E-02	1.65E-03	1.35E-01
955 UCART1	556392.5	3776698	556392.49, 3776697.81	418.9609	463.17312	322.55197	322.3496	4.07E-02	7.99E-02	1.04E-02	1.67E-03	1.33E-01
956 UCART1	556412.5	3776698	556412.49, 3776697.81	432.2153	479.52391	326.58362	326.2821	4.20E-02	8.28E-02	1.06E-02	1.69E-03	1.37E-01
957 UCART1	556432.5	3776698	556432.49, 3776697.81	438.4436	487.30233	321.1606	321.0266	4.26E-02	8.41E-02	1.04E-02	1.66E-03	1.39E-01
958 UCART1	556452.5	3776698	556452.49, 3776697.81	422.1622	467.15366	319.69867	319.4741	4.10E-02	8.06E-02	1.03E-02	1.65E-03	1.34E-01
959 UCART1	556472.5	3776698	556472.49, 3776697.81	433.8702	481.90967	319.58859	319.4335	4.21E-02	8.32E-02	1.03E-02	1.65E-03	1.37E-01
960 UCART1	556492.5	3776698	556492.49, 3776697.81	418.5411	463.82947	305.35667	305.1528	4.06E-02	8.01E-02	9.88E-03	1.58E-03	1.32E-01
961 UCART1	556252.5	3776718	556252.49, 3776717.81	374.0479	414.09691	281.89642	281.7117	3.63E-02	7.15E-02	9.12E-03	1.46E-03	1.18E-01
962 UCART1	556272.5	3776718	556272.49, 3776717.81	361.4962	399.11416	295.21796	295.0246	3.51E-02	6.89E-02	9.55E-03	1.53E-03	1.15E-01
963 UCART1	556372.5	3776718	556372.49, 3776717.81	427.6848	474.14541	341.20582	340.9815	4.15E-02	8.18E-02	1.10E-02	1.77E-03	1.36E-01
964 UCART1	556392.5	3776718	556392.49, 3776717.81	441.1064	489.82534	327.5722	327.2148	4.28E-02	8.45E-02	1.06E-02	1.69E-03	1.40E-01
965 UCART1	556412.5	3776718	556412.49, 3776717.81	445.2107	492.59677	340.40434	340.2066	4.32E-02	8.50E-02	1.10E-02	1.76E-03	1.41E-01
966 UCART1	556432.5	3776718	556432.49, 3776717.81	447.7225	495.95609	341.15102	340.8524	4.35E-02	8.56E-02	1.10E-02	1.76E-03	1.42E-01
967 UCART1	556452.5	3776718	556452.49, 3776717.81	457.2677	508.31163	328.82254	328.7126	4.44E-02	8.77E-02	1.06E-02	1.70E-03	1.44E-01
968 UCART1	556472.5	3776718	556472.49, 3776717.81	460.9208	511.02992	344.14359	343.9569	4.47E-02	8.82E-02	1.11E-02	1.78E-03	1.46E-01
969 UCART1	556492.5	3776718	556492.49, 3776717.81	462.2999	513.43736	334.06932	333.9694	4.49E-02	8.86E-02	1.08E-02	1.73E-03	1.46E-01
970 1	556267.4	3776876	556267.4, 3776875.81	434.7664	470.78871	392.98786	392.8205	4.22E-02	8.13E-02	1.27E-02	2.03E-03	1.38E-01
971 1	556239	3776853	556239.03, 3776853.02	420.1072	457.3776	374.88198	374.7336	4.08E-02	7.89E-02	1.21E-02	1.94E-03	1.34E-01
972 1	556178.8	3776751	556178.76, 3776751.21	370.0913	405.06486	314.04782	313.9664	3.59E-02	6.99E-02	1.02E-02	1.63E-03	1.18E-01
973 1	556154.5	3776775	556154.45, 3776774.51	373.3838	409.36161	308.72389	308.6782	3.63E-02	7.07E-02	9.99E-03	1.60E-03	1.18E-01
974 1	556119.5	3776705	556119.5, 3776705.11	339.9575	374.39793	277.85685	277.798	3.30E-02	6.46E-02	8.99E-03	1.44E-03	1.08E-01
975 1	556146.5	3777268	556146.51, 3777267.93	326.8052	366.29865	266.77352	266.6959	3.17E-02	6.32E-02	8.63E-03	1.38E-03	1.05E-01

1-Hour Concentration - Fueling

	Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)
Emissions Rate (g/s):	9.71E-05	1.73E-04	3.24E-05	5.18E-06

Discrete Receptor ID					Concentration Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	Concentration [ug/m^3] 1-hour Fueling and Hose Permeation (Volume Source)	Spillage (Volume Source)	Loading (Point Source)	(Breathing (Point Source)	
	X	Y	X, Y										total
976	1	556151	3777235	556151, 3777234.88	333.8087	374.29018	270.03551	269.9608	3.24E-02	6.46E-02	8.74E-03	1.40E-03	1.07E-01
977	1	556144.9	3777180	556144.93, 3777179.58	329.8663	370.16827	277.51132	277.4421	3.20E-02	6.39E-02	8.98E-03	1.44E-03	1.06E-01
978	1	556205.2	3777236	556205.18, 3777236.46	374.9409	419.75551	300.9045	300.8249	3.64E-02	7.24E-02	9.74E-03	1.56E-03	1.20E-01
979	1	556218	3777200	556218, 3777200.04	384.8026	431.7984	304.05675	303.9598	3.74E-02	7.45E-02	9.84E-03	1.57E-03	1.23E-01
980	1	556773.5	3777349	556773.51, 3777349	1191.498	1235.37317	1908.54123	1911.904	1.16E-01	2.13E-01	6.18E-02	9.90E-03	4.01E-01

APPENDIX C, YUCCA VALLEY WALMART FUEL STATION GEOTECHNICAL ENGINEERING REPORT

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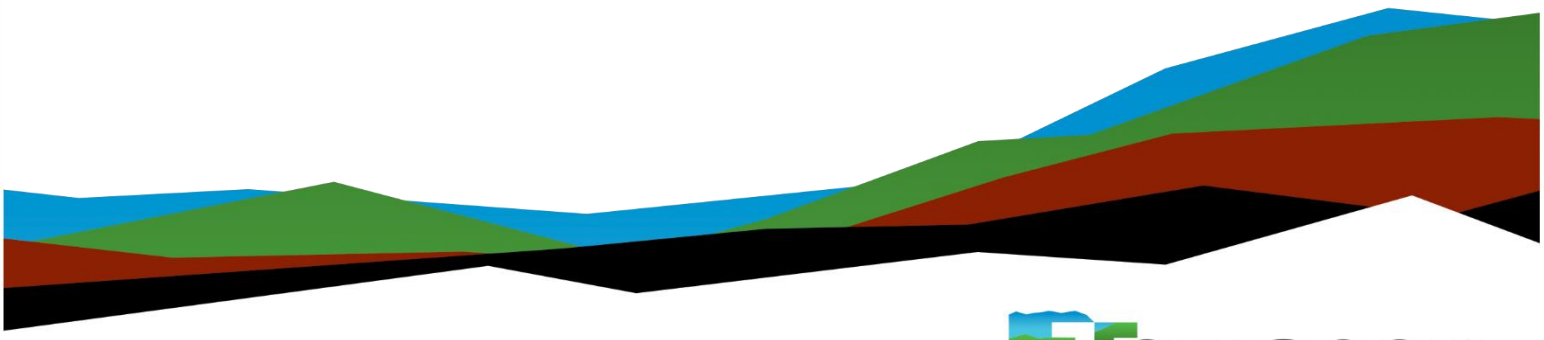
Yucca Valley Walmart Fuel Station

Geotechnical Engineering Report

May 7, 2024 | Terracon Project No. LA245053

Prepared for:

Kimley-Horn
1100 W Town and Country Road,
Suite 700
Orange, CA 92868



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May 7, 2024

Kimley-Horn
1100 W Town and Country Road, Suite 700
Orange, CA 92868

Attn: Ryan Alvarez
P: (714) 786-6322
E: Ryan.Alvarez@kimley-horn.com

Re: Geotechnical Engineering Report
Yucca Valley Walmart Fuel Station
58501 Twenty Nine Palms Hwy.
Yucca Valley, San Bernardino County, CA
Terracon Project No. LA245053

Dear Mr. Alvarez:

We have completed the scope of Geotechnical Engineering services for the above referenced project in general accordance with Terracon Proposal No. PLA245053 dated March 14, 2023 between Terracon and Kimley-Horn. This report presents the findings of the subsurface exploration and provides geotechnical recommendations concerning earthwork, construction of floor slabs, underground storage tanks, pavements and the design and construction of foundations for the proposed fuel center.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,

Terracon

Janna Valdez, E.I.T.
Staff Engineer

Joshua R. Morgan, P.E.
Regional Geotechnical Manager

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Exploration and Testing Procedures
Site Location and Exploration Plans
Exploration and Laboratory Results
Supporting Information

Note: This report was originally delivered in a web-based format. **Blue Bold** text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the Terracon logo will bring you back to this page. For more interactive features, please view your project online at **client.terracon.com**.

Refer to each individual Attachment for a listing of contents.

Introduction

This report presents the results of our subsurface exploration and Geotechnical Engineering services performed for the proposed fuel station to be located at within the existing parking lot of a Walmart Supercenter at 58501 Twentynine Palms Hwy., Yucca Valley, San Bernardino County, CA. The purpose of these services was to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil conditions
- Groundwater conditions
- Seismic site classification per California Building Code (CBC)
- Lateral Earth Pressures
- Site preparation and earthwork
- Foundation design and construction
- Pavement design and construction

The geotechnical engineering Scope of Services for this project included the advancement of test borings, laboratory testing, engineering analysis, and preparation of this report. The geotechnical engineering Scope of Services for our current scope of work included the following:

- Two (2) soil test borings to depths of 21.5, two (2) to approximately 16.5 feet, and two (2) to 6.5 feet below ground surface (bgs) in the proposed fuel station areas
- Corrosion testing on soil samples obtained from one (1) location

Drawings showing the site and boring locations are shown on the **Site Location** and **Exploration Plan**, respectively. The results of the laboratory testing performed on soil samples obtained from the site during our field exploration are included on the boring logs and/or as separate graphs in the **Exploration Results** section.

Project Description

Our initial understanding of the project was provided in our proposal and was discussed during project planning. A period of collaboration has transpired since the project was initiated, and our final understanding of the project conditions is as follows:

Item	Description
Information Provided	An email request for proposal was provided by Ryan Alvarez on March 7, 2024. The request included a conceptual site plan.
Project Description	The project includes a fuel station area with a footprint up to 1.2 acres in the northeast portion of an existing Walmart Supercenter parking lot.
Proposed Structure	The project includes a single-story fuel station serviced building with a footprint up to 1500 square feet (30x50 feet). The building will be slab-on-grade (non-basement). The project will also include the construction of a fuel station canopy (160 feet by 30 ft). The improvements will also include reconfiguration of drive lanes and landscape areas. A below grade fuel tank is also proposed.
Maximum Structural Loads	**Fuel Station Service Building Structural Load Data:** We understand that the fuel service building will have dimensions of 1,500 square feet. The typical gravity load to an interior column is 12 kips. The estimated maximum gravity load that may occasionally occur due to severe live loading is 25 kips. Maximum column uplift force from wind is estimated at 15 kips. The light gauge steel stud wall gravity loads range from 0.5 to 1.0 kips per lineal foot. Estimated maximum uniform floor slab live load is 100 psf. Estimated maximum floor slab concentrated load is 1.0 kip. **Fuel Station Canopy (typical for multi-column layouts) Structural Load Data:** For the canopy, the isolated column loads consist of axial gravity and uplift loads in conjunction with shear and overturning moments. The typical gravity axial load to a canopy column is 20 kips. The estimated maximum gravity load that may occasionally occur due to severe live loading is 40 kips. Maximum column uplift force from wind is estimated at 25 kips. The estimated maximum shear load from wind is estimated at 8 kips. The estimated maximum overturning moment from wind is estimated at 120 kip-feet.
Grading/Slopes	We anticipate that the field grade will follow the existing site grades with minimum grading required to bring the site to finish grade. The fuel tank is anticipated to be on the order of 15 feet below existing site grades.

Item	Description
Pavements	Standard Duty Pavement: Design life of 20 years based on a minimum ESAL (18 kip) load of 2,200, terminal serviceability = 2.0, reliability = 85%, initial serviceability = 4.2, standard deviation = 0.45 for flexible pavements and 0.35 for rigid pavements. Heavy Duty Pavement: A design life of 20 years, based on a minimum ESAL (18 kip) load of 335,800, terminal serviceability = 2.0, reliability = 85%, initial serviceability = 4.2, standard deviation = 0.45 for flexible pavements and 0.35 for rigid pavements.
Infiltration Systems	The realignment of the storm drain line is included in the site plan and outfalls into an existing stormwater infiltration basin, therefore we did not include percolation testing for infiltration rates is not part of this project.
Building Code	2022 California Building Code (CBC)

Terracon should be notified if any of the above information is inconsistent with the planned construction, especially the grading limits, as modifications to our recommendations may be necessary.

Site Conditions

The following description of site conditions is derived from our site visit in association with the field exploration and our review of publicly available geologic and topographic maps.

Item	Description
Parcel Information	The project is located at 58501 Twentynine Palms Hwy., Yucca Valley, San Bernardino County, CA. The proposed canopy portion of the site encompasses an approximate footprint of 1.2 acres. The coordinates of the approximate center of the site are 34.1340°N, 116.3833°W. See **Site Location**
Existing Improvements	The site is currently a parking lot for an existing Walmart shopping center. Existing improvements consist of paved parking and drive areas, hardscaping, and landscaping.
Current Ground Cover	Primarily asphalt pavements for parking and drive areas.

Item	Description
Existing Topography	The site is relatively flat with an approximate elevation ranging from 3206 to 3210 feet (from Google Earth Pro™).

Geotechnical Characterization

Subsurface Conditions

We have developed a general characterization of the subsurface conditions based upon our review of the subsurface exploration, laboratory data, geologic setting and our understanding of the project. This characterization, termed GeoModel, forms the basis of our geotechnical calculations and evaluation of the site. Conditions observed at each exploration point are indicated on the individual logs. The individual logs can be found in the **Exploration Results** and the GeoModel can be found in the **Figures** attachment of this report.

As part of our analyses, we identified the following model layers within the subsurface profile. For a more detailed view of the model layer depths at each boring location, refer to the GeoModel.

Model Layer	Layer Name	Density/Consistency
01	**Fill – Silty Sand**	Medium dense to dense
02	**Silty Sand or Poorly Graded Sand with Silt**	Loose to dense

The geotechnical characterization forms the basis of our geotechnical calculations and evaluation of site preparation and foundation options. As noted in **General Comments**, the characterization is based upon widely spaced exploration points across the site, and variations are likely.

Lab Results

Laboratory tests were conducted on selected soil samples and the test results are presented in the **Exploration Results** section and on the boring logs. Atterberg limit test results indicate that the on-site soils generally non-plastic. A consolidation test indicated that the sandy soils encountered at an approximate depth of 2.5 feet and 5 feet bgs have a negligible collapse potential when saturated under normal footing loads of 2,000 psf. Direct shear testing on clayey soils encountered at 7.5 feet indicate soils

have an effective friction angle of approximately 35 degrees with apparent cohesion value of 170 psf. Maximum density/optimum moisture content testing conducted in accordance with ASTM D1557 (Modified Proctor) indicate that near surface soils tested have maximum dry density of 125.5 pounds per cubic feet (pcf) and optimum water content of 9 percent. R-value tests on soils tested in the surface indicate that the soils have an approximate R-value of 65.

Groundwater

The borings were advanced using a hollow-stem-auger technique that allow short term groundwater observations to be made while drilling. Groundwater seepage was not encountered within the maximum allowed drilling depth at the time of our field exploration. Groundwater conditions may be different at the time of construction.

According to data collected from the Water Data Library for the State of California from a nearby well, located approximately 0.7 miles southwest of the site in the State Well Number 01N06E31G001S, historic groundwater levels between July 3, 2008, and December 20, 2009 were recorded at greater than 100 feet bgs.[1]

Groundwater conditions may change because of seasonal variations in rainfall, runoff, and other conditions not apparent at the time of drilling. Therefore, groundwater levels during construction or at other times in the life of the structure may be higher or lower than the levels indicated on the boring logs. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

Seismic Site Class

The 2022 California Building Code (CBC) Seismic Design Parameters have been generated using the SEAOC/OSHPD Seismic Design Maps Tool. This web-based software application calculates seismic design parameters in accordance with ASCE 7-16, and 2022 CBC. The 2022 CBC requires that a site-specific ground motion study be performed

[1] Groundwater elevation was obtained from the Water Data Library for the State of California Well Name 01N06E31G001S

in accordance with Section 11.4.8 of ASCE 7-16 for Site Class D sites with a mapped S_1 value greater than or equal 0.2.

However, Section 11.4.8 of ASCE 7-16 includes an exception from such analysis for specific structures on Site Class D sites. The commentary for Section 11 of ASCE 7-16 (Page 534 of Section C11 of ASCE 7-16) states that "In general, this exception effectively limits the requirements for site-specific hazard analysis to very tall and or flexible structures at Site Class D sites." Based on our understanding of the proposed structures, it is our assumption that the exception in Section 11.4.8 applies to the proposed structure. However, the structural engineer should verify the applicability of this exception.

Based on this exception, the spectral response accelerations presented below were determined using the site coefficients (Fa and Fv) from Tables 1613.2.3(1) and 1613.2.3(2) presented in Section 16.4.4 of the 2022 CBC.

Description	Value
2022 California Building Code Site Classification (CBC)[1]	D[2]
Site Latitude (°N)	34.1340
Site Longitude (°W)	116.3833
S_s Spectral Acceleration for a 0.2-Second Period	2.279
S_1 Spectral Acceleration for a 1-Second Period	0.813
F_a Site Coefficient for a 0.2-Second Period	1.0
F_v Site Coefficient for a 1-Second Period	1.7

1. Seismic site classification in general accordance with the *2022 California Building Code*.
2. The 2022 California Building Code (CBC) requires a site soil profile determination extending to a depth of 100 feet for seismic site classification. The current scope does not include the 100-foot soil profile determination. Borings were extended to a maximum depth of 21.5 feet, and this seismic site class definition considers that similar or denser soils continue below the maximum depth of the subsurface exploration. Additional exploration to deeper depths would be required to confirm the conditions below the current depth of exploration.

Faulting and Estimated Ground Motions

The site is located in the southern California, which is a seismically active area. The type and magnitude of seismic hazards affecting the site are dependent on the distance to causative faults, the intensity, and the magnitude of the seismic event. As calculated using the USGS Unified Hazard Tool, the Eureka Peak fault, which is considered to have the most significant effect at the site from a design standpoint, has a maximum credible earthquake magnitude of 6.47 and is located approximately 2.21 kilometers from the site.

Based on the USGS Design Maps Summary Report, using the American Society of Civil Engineers (ASCE 7-16) standard, the peak ground acceleration (PGA_M) at the project site is expected to be 1.152g. Based on the USGS Unified Hazard Tool, the project site has a mean magnitude of 6.72. Furthermore, the site's parcel partially overlaps an Alquist Priolo (AP) Earthquake Fault Zone based on our review of the State Fault Hazard Maps.[2] However, the specific project site is not located within the AP Fault Zone.

Liquefaction

Liquefaction is a mode of ground failure that results from the generation of high pore water pressures during earthquake ground shaking, causing loss of shear strength. Liquefaction is typically a hazard where the condition of loose sandy soils exists below groundwater. The California Geological Survey (CGS) has designated certain areas as potential liquefaction hazard zones.[3] These are areas considered at a risk of liquefaction-related ground failure during a seismic event, based upon mapped surficial deposits and the presence of a relatively shallow water table.

Based on our review of the CGS map, the project site has not been mapped for liquefaction hazard. However, according to the San Bernadino County Geologic Maps, the site's potential for liquefaction hazard is low. Furthermore, based on the anticipated depth to groundwater, liquefaction hazard potential at the site is considered low.[4]

Corrosivity

The table below lists the results of laboratory soluble sulfate, soluble chloride, electrical resistivity, and pH testing. The values may be used to estimate potential corrosive characteristics of the on-site soils with respect to contact with the various underground materials which will be used for project construction.

[2] California Geological Survey. https://maps.conservation.ca.gov/cgs/informationwarehouse.

[3] California Geologic Survey, "Earthquake Zones of Required Investigation, https://maps.conservation.ca.gov/cgs/EQZApp/app/

[4] San Bernardino County Zoning and Overlay Maps, Geologic Hazard Maps, https://lus.sbcounty.gov/planning-home/zoning-and-overlay-maps/geologic-hazard-maps/

Corrosivity Test Results Summary

Boring	Sample Depth (feet)	Soluble Sulfate (%)	Sulfides (ppm)	Soluble Chloride (mg/kg)	Red-Ox Potential (mV)	Total Salts (ppm)	Electrical Resistivity (Ω-cm)	pH
B-1	0-5	0.01	Nil	55	+733	286	4,020	8.22
B-3	0-5	0.01	0.01	95	+732	339	6,499	8.46

Results of soluble sulfate testing indicate samples of the on-site soils tested possess negligible sulfate concentrations when classified in accordance with Table 19.3.1.1 of the ACI Design Manual. Concrete should be designed in accordance with the exposure class S0 provisions of the ACI Design Manual, Section 318, Chapter 19.

Geotechnical Overview

The site appears suitable for the proposed construction based upon geotechnical conditions encountered in the test borings, provided that the recommendations provided in this report are implemented in the design and construction phases of this project.

The subsurface materials generally consisted of loose to dense sand with varying amounts silts extending to the maximum depth of the borings. Groundwater was not encountered within the maximum depths of exploration during or at the completion of drilling and is not expected to affect foundation construction on this site.

Our explorations indicate the site has approximately 5 feet of fill material across the site. The fill soils consisted of silty sand. The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils. Typically, fill soils should be removed and replaced prior to new construction. However, this fill was likely placed during the grading and relatively recent construction of the Wal-Mart shopping center and based on past history with Wal-Mart projects grading and inspection documentation likely exists. Furthermore, In-situ density tests measured from samples taken from our borings indicate that these soils are compacted to greater than 95% of the modified proctor value and are generally homogenous. It is our opinion that these soils received adequate compaction testing during placement. However, Terracon recommends that records of the testing and inspection of grading in this area be reviewed prior to start of construction of this outlying Fuel Facility.

The proposed structures may be supported on shallow spread footing foundations bearing on engineered fill, or on drilled shafts.. Engineered fill should extend to a minimum depth of 1 feet below the bottom of foundations, or the depth of undocumented fill, or 3 feet below existing grades, whichever is greater. The excavation

should be widened laterally at least 8 inches for each 12 inches of fill placed below footing base elevations. Grading for the proposed station should incorporate the limits of the overexcavation plus a lateral distance of 1 feet beyond the outside edge of perimeter footings, where possible. Overexcavation and replacement is not required for support of drilled shaft foundations.

Geotechnical engineering recommendations for foundation systems and other earth connected phases of the project are outlined below. The recommendations contained in this report are based upon the results of field and laboratory testing (presented in the **Exploration Results**), engineering analyses, and our current understanding of the proposed project.

The **General Comments** section provides an understanding of the report limitations.

Earthwork

The following presents recommendations for site preparation, excavation, subgrade preparation, and placement of engineered fills on the project. The recommendations presented for the design and construction of foundations are contingent upon following the recommendations outlined in this section.

Earthwork on the project should be observed and evaluated by Terracon. The evaluation of earthwork should include observation and testing of engineered fill, subgrade preparation, foundation of bearing soils, and other geotechnical conditions exposed during construction of the project.

Site Preparation

Prior to placing fill, existing debris, pavements, and other deleterious materials should be removed from proposed foundation and pavement areas. Exposed surfaces within these areas should be free of mounds and depressions which could prevent uniform compaction. The site should be initially graded to create a relatively level surface to receive fill and provide for a relatively uniform thickness of fill beneath proposed structures.

Our explorations indicate the site has approximately 5 feet of fill materials across the site. The fill soils consisted of silty sand. The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils. Based on our review of Google Earth imagery, it is apparent that the fill materials are associated with the grading and development of the existing shopping center onsite between March 2013 and January 2015.

Terracon does not have any documentation to show if the grading operations were monitored or the fill materials have been compacted and tested. Typically fill soils should be removed and replaced prior to new construction. However, this fill was likely placed

during the grading and relatively recent construction of the Wal-Mart shopping center and based on past history with Wal-Mart projects grading and inspection documentation likely exists. Furthermore, In-situ density tests measured from samples taken from our borings indicate that these soils are compacted to greater than 95% of the modified proctor value and are generally homogenous. It is our opinion that these soils received adequate compaction testing during placement.. If such documentation exists, Terracon should be notified and the recommendations in this report may be appropriately modified or confirmed.

Evidence of utilities such as manhole covers and utility markings was observed onsite. Although no evidence underground facilities such as septic tanks, cesspools, or basements were observed during the site reconnaissance, such features could be encountered during construction. If unexpected fills or underground facilities are encountered, such features should be removed, and the excavation thoroughly cleaned prior to backfill placement and/or construction.

Subgrade Preparation

The proposed service building and canopies may be supported by a shallow concrete foundation system bearing on engineered fill or drilled shafts.

The proposed structures may be supported by a shallow foundation supported on engineered fill extending to a minimum depth of 1 feet below the bottom of foundations, or 3 feet below existing grade, whichever is greater. Grading for the proposed station should incorporate the limits of the overexcavation plus a lateral distance of 1 feet beyond the outside edge of perimeter footings. Overexcavation and replacement is not required for support of drilled shaft foundations.

Subgrade soils beneath proposed exterior slabs should be scarified to a minimum depth of 12 inches, moisture conditioned, and compacted. The moisture content and compaction of subgrade soils should be maintained until slab or pavement construction.

All exposed areas which will receive fill, once properly cleared and benched where necessary, should be scarified to a minimum depth of 10 inches, moisture conditioned as necessary, and compacted per the compaction requirements in this report. Compacted structural fill soils should then be placed to the proposed design grade and the moisture content and compaction of subgrade soils should be maintained until foundation construction.

Based upon the subsurface conditions determined from the geotechnical exploration, subgrade soils exposed during construction are anticipated to be relatively workable; however, the workability of the subgrade may be affected by precipitation, repetitive construction traffic or other factors. If unworkable conditions develop, workability may be improved by scarifying and drying.

Excavation

We anticipate that excavations for the proposed construction can be accomplished with conventional earthmoving equipment.

The bottom of excavations should be thoroughly cleaned of loose soils and disturbed materials prior to backfill placement and/or construction.

Onsite soils consist of cohesionless sandy soils. Such soils have the tendency to cave and slough during excavations. Therefore, formwork may be needed for foundation excavations.

The walls of the proposed excavation should be shored or sloped in conformance with OSHA excavation and trench safety standards. If any excavation is extended to a depth of more than 20 feet, it will be necessary to have the side slopes designed by a professional engineer.

We recommend that the underground storage tanks be over-excavated by about 2 feet in plan area to provide adequate access around the excavation for underground storage tanks construction. The walls of the proposed excavation should be shored or sloped in conformance with OSHA excavation and trench safety standards. If any excavation is extended to a depth of more than 20 feet, it will be necessary to have the side slopes designed by a professional engineer.

Soils from the excavation should not be stockpiled higher than six 6 feet or within ten 10 feet of the edge of an open trench. Construction of open cuts adjacent to existing structures, including underground pipes, is not recommended within a 1½ H:1V plane extending beyond and down from the perimeter of the structure. Cuts that are proposed within five 5 feet of light standards, other utilities, underground structures, and pavement should be provided with temporary shoring.

Onsite soils consist of cohesionless sandy soils. Therefore, OSHA Soil Type C should be utilized for sloping considerations and on-site soils shall be sloped at a minimum of 1.5H:1V. Furthermore, benching is not permitted.

It may be necessary for the contractor to retain a geotechnical engineer to monitor the soils exposed in all excavations and provide engineering services for slopes. This will provide an opportunity to monitor the soils encountered and to modify the excavation slopes as necessary. It also offers an opportunity to verify the stability of the excavation slopes during construction

Individual contractors are responsible for designing and constructing stable, temporary excavations. Excavations should be sloped or shored in the interest of safety following local, and federal regulations, including current OSHA excavation and trench safety standards.

Fill Material and Placement

All fill materials should be inorganic soils free of vegetation, debris, and fragments larger than six inches in size. Pea gravel or other open-graded materials should not be used as fill or backfill without the prior approval of the geotechnical engineer.

Clean on-site soils or approved imported materials may be used as fill material for the following:

- general site grading
- foundation areas
- foundation backfill
- pavement areas

Imported soils for use as fill material within proposed structure areas should conform to low volume change materials as indicated in the following specifications:

Gradation	**Percent Finer by Weight** (ASTM C 136)
3”	100
No. 4 Sieve	50-100
No. 200 Sieve	40(max)

- Liquid Limit..... 30 (max)
- Plasticity Index..... 15 (max)
- Maximum Expansion Index* ..... 20 (max)

*ASTM D4829

The contractor shall notify the Geotechnical Engineer of import sources sufficiently ahead of their use so that the sources can be observed and approved as to the physical characteristic of the import material. For all import material, the contractor shall also submit current verified reports from a recognized analytical laboratory indicating that the import has a "not applicable" (Class S0) potential for sulfate attack based upon current ACI criteria and is "mildly corrosive" to ferrous metal and copper. The reports shall be accompanied by a written statement from the contractor that the laboratory test results are representative of all import material that will be brought to the job.

Engineered fill should be placed and compacted in horizontal lifts, using equipment and procedures that will produce recommended moisture contents and densities throughout the lift. Fill lifts should not exceed 10 inches loose thickness.

Compaction Requirements

Recommended compaction and moisture content criteria for engineered fill materials are as follows:

Material Type and Location	Per the Modified Proctor Test (ASTM D 1557)		
	Minimum Compaction Requirement	Range of Moisture Contents for Compaction Above Optimum	
		Minimum	Maximum
On-site soils and low volume change imported fill:			
Beneath foundations:	90%	-1%	+3%
Beneath interior slabs:	90%	-1%	+3%
Fill greater than 5 feet in depth:	95%	-1%	+3%
Beneath pavements:	95%	-1%	+3%
Aggregate base (beneath pavements):	95%	-1%	+3%
Utility trenches*:	90%	-1%	+3%
Exterior Slabs:	90%	-1%	+3%
Bottom of excavation receiving fill:	90%	-1%	+3%
Miscellaneous backfill:	90%	-1%	+3%

*upper 12 inches should be compacted to 95% within structural areas. Low-volume change imported soils should be used in structural areas

Utility Trench Backfill

We anticipate that the on-site soils will provide suitable support for underground utilities and piping that may be installed. Any soft and/or unsuitable material encountered at the bottom of excavations should be removed and be replaced with an adequate bedding material.

A non-expansive granular material with a sand equivalent greater than 30 should be used for bedding and shading of utilities, unless allowed or specified otherwise by the utility manufacturer.

On-site materials are considered suitable for backfill of utility and pipe trenches from 1 foot above the top of the pipe to the final ground surface, provided the material is free of organic matter and deleterious substances.

Trench backfill should be mechanically placed and compacted as discussed earlier in this report. Compaction of initial lifts should be accomplished with hand-operated tampers or other lightweight compactors. Where trenches are placed beneath footings, the backfill should satisfy the gradation and expansion index requirements of engineered fill

discussed in this report. Flooding or jetting for placement and compaction of backfill is not recommended.

Grading and Drainage

All grades must provide effective drainage away from the proposed structure during and after construction and should be maintained throughout the life of the structure. Water retained next to the structure can result in soil movements greater than those discussed in this report. Greater movements can result in unacceptable differential foundation movements, cracked slabs and walls, and roof leaks.

Planters and other surface features which could retain water in areas adjacent to the building or pavements should be sealed or eliminated. In areas where sidewalks or paving do not immediately adjoin the structure, we recommend that protective slopes be provided with a minimum grade of approximately 5 percent for at least 10 feet from perimeter walls. Backfill against footings, exterior walls, and in utility and sprinkler line trenches should be well compacted and free of all construction debris to reduce the possibility of moisture infiltration. We recommend a minimum horizontal setback distance of 10 feet from the perimeter of any structure and the high-water elevation of the nearest storm-water retention basin.

Roof and canopy drainage should discharge into splash blocks or extensions when the ground surface beneath such features is not protected by exterior slabs or paving. Sprinkler systems and landscaped irrigation should not be installed within 5 feet of foundation walls.

Exterior Slab Design and Construction

Exterior slabs-on-grade, exterior architectural features, and utilities founded on, or in backfill may experience some movement due to the volume change of the backfill. To reduce the potential for damage caused by movement, we recommend:

- minimizing moisture increases in the backfill;
- controlling moisture-density during placement of backfill;
- using designs which allow vertical movement between the exterior features and adjoining structural elements;
- placing effective control joints on relatively close centers

Earthwork Construction Considerations

Upon completion of filling and grading, care should be taken to maintain the subgrade water content prior to construction of pavements. Construction traffic over the completed subgrades should be avoided to the extent practical. The site should also be

graded to prevent ponding of surface water on the prepared subgrades or in excavations. Water collecting over or adjacent to construction areas should be removed. If the subgrade desiccates, saturates, or is disturbed, the affected material should be removed, or the materials should be scarified, moisture conditioned, and recompacted prior to pavement construction.

Should unstable subgrade conditions develop stabilization measures will need to be employed. Stabilization measures may include placement of aggregate base and multi-axial geogrid. Use of lime, fly ash, kiln dust or cement could also be considered as a stabilization technique. Laboratory evaluation is recommended to determine the effect of chemical stabilization on subgrade soils prior to construction.

We recommend that the earthwork portion of this project be completed during extended periods of dry weather if possible. If earthwork is completed during the wet season (typically November through April) it may be necessary to take extra precautionary measures to protect subgrade soils. Wet season earthwork operations may require additional mitigative measures beyond that which would be expected during the drier summer and fall months. This could include diversion of surface runoff around exposed soils and draining of ponded water on the site. Once subgrades are established, it may be necessary to protect the exposed subgrade soils from construction traffic.

Based on our understanding of the project, we anticipate that excavations up to 15 feet below existing grade for the installation of the underground storage tanks are planned for this project. The sides of below grade structure excavations may either be sloped or formed with vertical cuts. For vertical sided excavations greater than 5 feet in depth, the excavations will require the use of shoring, bracing or some form of retention to prevent sloughing and caving of the soil into the excavation.

As a safety measure, no equipment should be operated within 5 feet of the edge of the excavation and no materials should be stockpiled within 10 feet of the excavation. Excavations should not approach closer than a distance equal to the depth of excavation from existing structures/facilities without some form of protection for the facilities. Proper berming or ditching should be performed to divert any surface runoff away from the excavation.

The individual contractor(s) is responsible for designing and constructing stable, temporary excavations as required to maintain stability of both the excavation sides and bottom. Excavations should be sloped or shored in the interest of safety following local, and federal regulations, including current Occupational Safety and Health Administration (OSHA) excavation and trench safety standards.

As a minimum, excavations should be performed in accordance with OSHA 29 CFR, Part 1926, Subpart P, "Excavations" and its appendices, and in accordance with any applicable local, and/or state regulations.

Construction site safety is the sole responsibility of the contractor who controls the means, methods, and sequencing of construction operations. Under no circumstances shall the information provided herein be interpreted to mean Terracon is assuming responsibility for construction site safety, or the contractor's activities; such responsibility shall neither be implied nor inferred.

Construction Observation and Testing

The geotechnical engineer should be retained during the construction phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation, proof-rolling, placement and compaction of controlled compacted fills, backfilling of excavations to the completed subgrade.

The exposed subgrade and each lift of compacted fill should be tested, evaluated, and reworked, as necessary, as recommended by the Geotechnical Engineer prior to placement of additional lifts. Each lift of fill should be tested for density and water content at a frequency of at least one test for every 2,500 square feet of compacted fill in the building areas and 5,000 square feet in pavement areas. Where not specified by local ordinance, one density and water content test should be performed for every 50 linear feet of compacted utility trench backfill. This testing frequency criteria may be adjusted during construction as specified by the geotechnical engineer of record.

In areas of foundation excavations, the bearing subgrade should be evaluated by the Geotechnical Engineer. If unanticipated conditions are observed, the Geotechnical Engineer should prescribe mitigation options.

In addition to the documentation of the essential parameters necessary for construction, the continuation of the Geotechnical Engineer into the construction phase of the project provides the continuity to maintain the Geotechnical Engineer’s evaluation of subsurface conditions, including assessing variations and associated design changes.

Shallow Foundations

We anticipate that the proposed service building and canopies may be supported on spread footings.

If the site has been prepared in accordance with the requirements noted in **Earthwork**, the following design parameters are applicable for shallow foundations.

Shallow Foundation Design Recommendations

Item	Description
Foundation System	Spread footings
Maximum Net Allowable Bearing Pressure[1]	3,000 psf up to 4 feet wide 2,500 psf up to 6 feet wide 2,000 psf up to 10 feet wide
Required Bearing Stratum[2]	Engineered fill extending to a minimum of 1 feet below the bottom of foundations, or the depth of undocumented fill, or 3 feet below existing grade, whichever is greater.
Ultimate Passive Resistance[3]	375 pcf
Ultimate Coefficient of Sliding Friction[4]	0.34
Minimum Embedment Below Finished Grade[5]	18 inches
Minimum Dimensions	Columns: 24 inches Walls: 18 inches
Estimated Total Settlement from Structural Loads	About 1 inch
Estimated Differential Settlement[2,6]	About 1/2 of total settlement over a horizontal distance of 40 feet

1. The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. An appropriate factor of safety has been applied. These bearing pressures can be increased by 1/3 for transient loads unless those loads have been factored to account for transient conditions.
2. Unsuitable or soft soils should be overexcavated and replaced per the recommendations presented in **Earthwork**.
3. Use of passive earth pressures require the sides of the excavation for the spread footing foundation to be nearly vertical and the concrete placed neat against these vertical faces or that the footing forms be removed, and compacted structural fill be placed against the vertical footing face. Assumes no hydrostatic pressure.
4. Can be used to compute sliding resistance where foundations are placed on suitable soil/materials. Should be neglected for foundations subject to net uplift conditions. A factor of safety of 1.5 is recommended.
5. For sloping ground, maintain depth below the lowest adjacent exterior grade within 5 horizontal feet of the structure
6. Differential settlements are noted for equivalent-loaded foundations and bearing elevation as measured over a span of 50 feet.

Settlement calculations were performed utilizing Westergaard and Hough's methods[5] to estimate the static settlement for various foundations widths with an allowable settlement of 1-inch.

Finished grade is defined as the lowest adjacent grade within five feet of the foundation for perimeter (or exterior) footings.

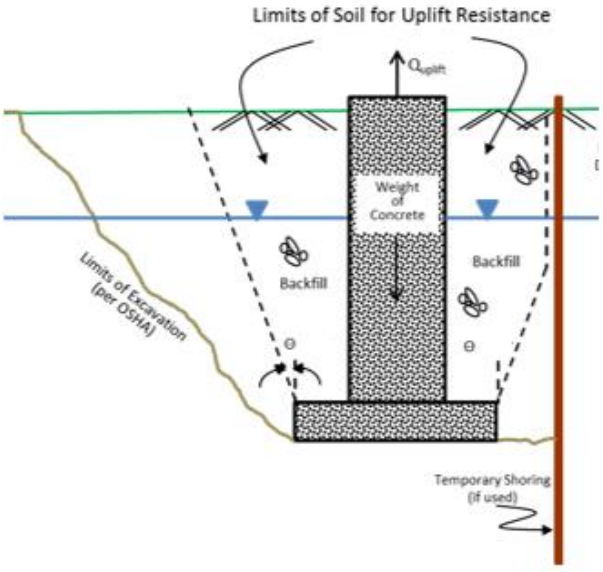
The allowable foundation bearing pressure applies to dead loads plus design live load conditions. The design bearing pressure may be increased by one-third when considering total loads that include wind or seismic conditions. The weight of foundation concrete below grade may be neglected in dead load computations.

Foundation should be reinforced as necessary to reduce the potential for distress caused by differential foundation movement. Foundation excavations should be observed by the geotechnical engineer. If the soil conditions encountered differ significantly from those presented in this report, supplemental recommendation will be required.

Design Parameters – Overturning and Uplift Loads

Uplift resistance of spread footings can be developed from the effective weight of the footing and the overlying soils. As illustrated on the subsequent figure, the effective weight of the soil prism defined by diagonal planes extending up from the top of the perimeter of the foundation to the ground surface at an angle, θ, of 20 degrees from the vertical can be included in uplift resistance. The maximum allowable uplift capacity should be taken as a sum of the effective weight of soil plus the dead weight of the foundation, divided by an appropriate factor of safety. A maximum total unit weight of 120 pcf should be used for the backfill.

[5] FHWA Geotechnical Engineering Circular No. 6 – Shallow Foundations, FHWA – SA-02-054



Foundations subject to overturning loads should be sized to maintain the entire foundation area in contact with the bearing surface during the load event. This condition requires that the load eccentricity be maintained in the central third of the foundation (e.g., e < b/6), and may require foundation widening or additional foundation weight beyond that provided by proportioning for uplift alone.

Foundation Construction Considerations

Finished grade is defined as the lowest adjacent grade within five feet of the foundation for perimeter (or exterior) footings.

The allowable foundation bearing pressure applies to dead loads plus design live load conditions. The design bearing pressure may be increased by one-third when considering total loads that include wind or seismic conditions. The weight of the foundation concrete below grade may be neglected in dead load computations.

Foundations should be reinforced as necessary to reduce the potential for distress caused by differential foundation movement. Foundation excavations should be observed by the geotechnical engineer. If the soil conditions encountered differ significantly from those presented in this report, supplemental recommendations will be required.

Deep Foundations

Drilled Shaft Design Recommendations

Proposed canopies may be supported on drilled shafts. Total required embedment of the drilled shaft should be determined by the structural engineer based on structural loading and parameters provided in this report.

Drilled Shaft Axial Loading

Allowable skin friction and total capacity charts are attached to our **Supporting Information** section at the end of this report. The values presented for allowable side friction and end bearing include a factor of safety of 2.5.

Drilled piers should have a minimum (center-to-center) spacing of three diameters. Closer spacing may require a reduction in axial load capacity. Axial capacity reduction can be determined by comparing the allowable axial capacity determined from the sum of individual piers in a group versus the capacity calculated using the perimeter and base of the pier group acting as a unit. The lesser of the two capacities should be used in design.

The allowable uplift capacities should only be based on the side friction of the shaft; however, the weight of the foundation should be added to these values to obtain the actual allowable uplift capacities for drilled shafts. Tensile reinforcement should extend to the bottom of shafts subjected to uplift loading.

Drilled Shaft Lateral Loading

Based on our review of the subsurface conditions in the area of the proposed hydrogen station, our laboratory testing, and the Standard Penetration Test (SPT) results, engineering properties have been estimated for the soils conditions as shown in the following table. Due to potential for disturbance within the upper soils around the shaft, lateral and axial capacity of soils within the upper 2 feet should be neglected.

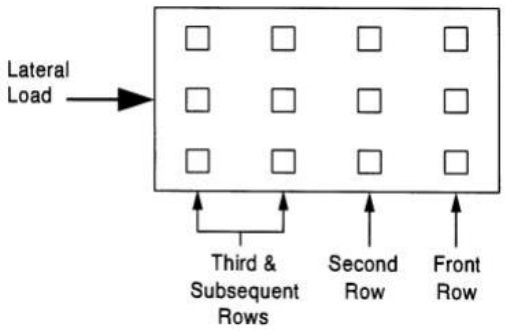
Recommended geotechnical parameters for lateral load analyses by others of drilled shaft foundations have been developed for use in the LPILE computer program. The following table summarizes input values for use in LPILE analyses. LPILE estimated values of k_h may be used. Since deflection or a service limit criterion will most likely control lateral capacity design, no safety/resistance factor is included with the parameters.

Stratigraphy[1]		L-Pile Soil Model	ϕ[2]	γ' (pcf)[2]
Layer	Depth Below Finished Grade (feet)			
1	2	Sand	34	120
	5			
2	5	Sand	30	110
	20			

1. See Subsurface Profile in **Geotechnical Characterization** for more details on Stratigraphy.
2. Definition of Terms:
3. ϕ: Internal friction angle
4. γ'': Effective unit weight
5. Default K and E50 values may be utilized.

The load capacities provided herein are based on the stresses induced in the supporting soil strata. The structural capacity of the shafts/piles should be checked to assure they can safely accommodate the combined stresses induced by axial and lateral forces. Lateral deflections of shafts/piles should be evaluated using an appropriate analysis method, and will depend upon the pile's diameter, length, configuration, stiffness and "fixed head" or "free head" condition. We can provide additional analyses and estimates of lateral deflections for specific loading conditions upon request. The load-carrying capacity of shafts/piles may be increased by increasing the diameter and/or length.

When piers are used in groups, the lateral capacities of the piers in the second, third, and subsequent rows of the group should be reduced as compared to the capacity of a single, independent pier. Guidance for applying p-multiplier factors to the p values in the p-y curves for each row of pier foundations within a pier group are as follows:



1. Front row: Pm = 0.8

2. Second row: Pm = 0.4
3. Third and subsequent row: Pm= 0.3

For the case of a single row of piers supporting a laterally loaded grade beam, group action for lateral resistance of piers would need to be considered when spacing is less than five pier diameters (measured center-to-center). However, spacing closer than 3D (where D is the diameter of the pier) is not recommended due to the potential for the installation of a new pier disturbing an adjacent installed pier, likely resulting in axial capacity reduction.

Drilled Shaft Construction Considerations

Drilling to design depths should be possible with conventional single flight power augers. Due to presence of granular soils, caving of soils within the drilled shaft excavations should be anticipated. Temporary steel casing will likely be required to properly drill and clean shafts prior to concrete placement.

We do not anticipate drilled shafts to extend below the depth of groundwater. However, if foundation concrete cannot be placed in dry conditions, a tremie should be used for concrete placement. If shafts extend below the depth of groundwater, a tremie should be used for concrete placement.

Drilled shaft foundation concrete should be placed immediately after completion of drilling and cleaning. If foundation concrete cannot be placed in dry conditions, a tremie should be used for concrete placement. Due to potential sloughing and raveling, foundation concrete quantities may exceed calculated geometric volumes.

In the event drilled hole walls slough during drilling, temporary steel casing may be required to properly drilled shafts prior to concrete placement. We recommend the use of slurry drilling methods with polymers method to keep the solids in suspension during the drilling. Drilled shaft foundation concrete should be placed within 6 inches of the shaft base of the slurry-filled excavation immediately after completion of drilling and cleaning. The tremie should remain inserted several feet into the fresh concrete as it displaces the slurry upward and until placement is complete. The slurry should have a sand content no greater than 1% at the time concrete placement commences. The maximum unit weight of the slurry should be established in consultation with Terracon.

As an alternative to temporary casing, the shaft excavation may be backfilled with a slurry mix in order to help stabilize sloughing sidewalls of the excavation, allowed to dry, and re-drilled through the backfill. The slurry mix design should be submitted to the Geotechnical Engineer for review and approval

If casing is used for drilled shaft construction, it should be withdrawn in a slow continuous manner maintaining a sufficient head of concrete to prevent infiltration of

water or the creation of voids in shaft concrete. Shaft concrete should have a relatively high fluidity when placed in cased shaft holes or through a tremie. Shaft concrete with slump in the range of 6 to 8 inches is recommended.

Closely spaced shafts should be drilled and filled alternatively, allowing the concrete to set at least eight hours before drilling the adjacent shaft. All excavations should be filled with concrete as soon after drilling as possible. In no event should shaft holes be left open overnight.

Formation of mushrooms or enlargements at the tops of shafts should be avoided during shaft drilling. If mushrooms develop at the tops of the shafts during drilling, sono-tubes should be placed at the shaft tops to help isolate the shafts.

Free-fall concrete placement in drilled piers will only be acceptable if provisions are taken to avoid striking the concrete on the sides of the hole or reinforcing steel. The use of a bottom-dump hopper, or an "elephant's trunk" discharging near the bottom of the hole where concrete segregation will be minimized, is recommended.

We recommend that all drilled shaft installations be observed on a full-time basis by an experienced geotechnical engineer in order to evaluate that the soils encountered are consistent with the recommended design parameters. If the subsurface soil conditions encountered differ significantly from those presented in this report, supplemental recommendations will be required. The Geotechnical Engineer should observe the installation of drilled piers to verify the soil conditions and the diameter and depth of piers. Drilled piers should be constructed true and plumb.

Drilled pier end bearing surfaces must be thoroughly cleaned prior to concrete placement. A representative of the Geotechnical Engineer should inspect the bearing surface and foundation pier configuration. If the subsurface soil conditions encountered differ significantly from those presented in this report, supplemental recommendations will be required.

The contractor should check for gas and/or oxygen deficiency before any workers enter the excavation for observation and manual cleanup. All necessary monitoring and safety precautions as required by OSHA, State or local codes should be strictly enforced.

Floor Slabs

Description	Recommendation
Interior floor system	Slab-on-grade concrete

Description	Recommendation
Floor slab support	Engineered fill extending to a minimum depth of 1 foot below the bottom of foundations, or to the depth of undocumented fill, or 3 feet below existing grade whichever is greater.
Subbase	Minimum 4-inches of Aggregate Base
Modulus of subgrade reaction	200 pounds per square inch per inch (psi/in) (The modulus was obtained based on estimates obtained from NAVFAC 7.1 design charts). This value is for a small loaded area (1 Sq. ft or less) such as for forklift wheel loads or point loads and should be adjusted for larger loaded areas.

The use of a vapor retarder should be considered beneath concrete slabs on grade covered with wood, tile, carpet, or other moisture sensitive or impervious coverings, or when the slab will support equipment sensitive to moisture. When conditions warrant the use of a vapor retarder, the slab designer should refer to ACI 302 and/or ACI 360 for procedures and cautions regarding the use and placement of a vapor retarder.

Saw-cut control joints should be placed in the slab to help control the location and extent of cracking. For additional recommendations refer to the ACI Design Manual. Joints or cracks should be sealed with a water-proof, non-extruding compressible compound specifically recommended for heavy duty concrete pavement and wet environments.

Where floor slabs are tied to perimeter walls or turn-down slabs to meet structural or other construction objectives, our experience indicates differential movement between the walls and slabs will likely be observed in adjacent slab expansion joints or floor slab cracks beyond the length of the structural dowels. The Structural Engineer should account for potential differential settlement through use of sufficient control joints, appropriate reinforcing or other means.

Design parameters for floor slabs assume the requirements for **Earthwork** have been followed. Specific attention should be given to positive drainage away from the structure and positive drainage of the aggregate base beneath the floor slab.

Lateral Earth Pressures

Design Parameters

Recommended equivalent fluid pressures for cantilever shoring based on onsite native soils are as follows:

Item	Recommended Value [1,2]
Active Case	38 psf/ft
Passive Case[3]	375 psf/ft
At-Rest Case	58 psf/ft

1. The values are based on engineered fill materials used as backfill.
2. Uniform, horizontal backfill, compacted to at least 90% of the ASTM D1557 maximum dry density, rendering a maximum unit weight of 120 pcf.
3. Use of passive earth pressures require the sides of the excavation for the foundation to be nearly vertical and the concrete placed neat against these vertical faces or that the foundation forms be removed and compacted engineered fill be placed against the vertical foundation face

The lateral earth pressures herein do not include any factor of safety and are not applicable for submerged soils/hydrostatic loading. Additional recommendations may be necessary if such conditions are to be included in the design.

The design of retaining structures and shoring systems should consider surcharge loads imposed on the foundations. In addition, the design should take into consideration new and existing footing loads and anticipated vehicular loads in the vicinity of the proposed basement walls. In general, surcharge loads should be considered where they are located within a horizontal distance behind the wall equal to the height of the wall.

Surcharge loads acting at the top of the wall should be applied to the wall over the backfill as a uniform pressure over the entire wall height and should be added to the static earth pressures. Surcharge stresses due to point loads, line loads, and those of limited extent, such as compaction equipment, should be evaluated using elastic theory.

For the design of braced shoring, we recommend such shoring be designed using a rectangular-shaped distribution of lateral earth pressure of 23H psf, where H (in units of feet) is the height of the braced shoring. Surcharge loads from the drive lanes should be also considered in the design of the shoring.

Fill against foundation and retaining walls should be compacted to densities specified in the Earthwork section of this report. Compaction of each lift adjacent to walls should be

accomplished with hand-operated tampers or other lightweight compactors. Over-compaction may cause excessive lateral earth pressures on the wall.

The design of the shored excavation should be performed by an engineer knowledgeable and experienced with the on-site soil conditions. The contractor should be aware that slope height, slope inclination or excavation depths should in no case exceed those specified in local, state or federal safety regulations, e.g., OSHA Health and Safety Standards for Excavation, 29 CFR Part 1926, or successor regulations. Such regulations are strictly enforced and, if not followed, the owner or the contractor could be liable for substantial penalties.

Pavements

General Pavement Comments

Pavement designs are provided for the traffic conditions and pavement life conditions as noted in **Project Description** and in the following sections of this report. A critical aspect of pavement performance is site preparation. Pavement designs noted in this section must be applied to the site which has been prepared as recommended in the **Earthwork** section.

Pavement Design Parameters

Asphalt concrete the Portland cement concrete pavement sections thickness was based on lab testing results. The results of R-value testing exceeded the maximum value of 50 recommended in the Caltrans method for design of flexible pavements, therefore an R-value of 50 was used in the following design. R-value testing may be required prior to pavement construction to verify the design R-value.

The structural sections are predicated upon proper compaction of the utility trench backfills and the subgrade soils as prescribed by in **Earthwork**, with the upper 12 inches of subgrade soils and all aggregate base material brought to a minimum relative compaction of 95 percent in accordance with ASTM D 1557 prior to paving. The aggregate base should meet Caltrans requirements for Class 2 base.

Assuming the pavement subgrades will be prepared as recommended within this report, the following pavement sections should be considered minimums for this project for the traffic loading listed in the table below.

Pavement calculations are based on geotechnical specifications provided by Wal-Mart using the AASHTO 1993 method. Design criteria for both standard and heavy-duty pavements are based on 18-kip Equivalent Single Axle Load (ESAL) values as shown in

the tables below, using a terminal serviceability of 2.0, reliability of 85%, initial serviceability of 4.2, and a standard deviation of 0.45 for flexible pavements and 0.35 for rigid pavements. If more specific traffic information becomes available for the site, we should be contacted to reevaluate the pavement calculations.

Pavement Section Thicknesses

The following table provides our opinion of minimum thickness for AC sections:

Asphaltic Concrete Design

Layer	Thickness (inches)	
	Standard Duty [2]	Heavy Duty [3]
AC [1, 3]	3	3
Aggregate Base[1]	4	6

1. All materials should meet the Caltrans Standard Specifications for Highway Construction.
2. 2,200 ESAL
3. 335,800 ESAL
4. Flexible pavement structural sections were calculated utilizing the AASHTO 1993 method.

The following table provides our estimated minimum thickness of PCC pavements.

Portland Cement Concrete Design

Layer	Thickness (inches)	
	Standard Duty [2]	Heavy Duty [3]
PCC [1]	5	6
Aggregate Base[1]	4	4

1. All materials should meet the Caltrans Standard Specifications for Highway Construction.
2. 2,200 ESAL
3. 335,800 ESAL
4. Flexible pavement structural sections were calculated utilizing the AASHTO 1993 method.

Pavement Drainage

Pavements should be sloped to provide rapid drainage of surface water. Water allowed to pond on or adjacent to the pavements could saturate the subgrade and contribute to premature pavement deterioration. In addition, the pavement subgrade should be graded to provide positive drainage within the granular base section. Appropriate sub-

drainage or connection to a suitable daylight outlet should be provided to remove water from the granular subbase.

Pavement Maintenance

The pavement sections represent minimum recommended thicknesses and, as such, periodic upkeep should be anticipated. Preventive maintenance should be planned and provided for through an on-going pavement management program. Maintenance activities are intended to slow the rate of pavement deterioration and to preserve the pavement investment. Pavement care consists of both localized (e.g., crack and joint sealing and patching) and global maintenance (e.g., surface sealing). Additional engineering consultation is recommended to determine the type and extent of a cost-effective program. Even with periodic maintenance, some movements and related cracking may still occur, and repairs may be required.

Pavement performance is affected by its surroundings. In addition to providing preventive maintenance, the civil engineer should consider the following recommendations in the design and layout of pavements:

- Final grade adjacent to paved areas should slope down from the edges at a minimum 2%.
- Subgrade and pavement surfaces should have a minimum 2% slope to promote proper surface drainage.
- Install pavement drainage systems surrounding areas anticipated for frequent wetting.
- Install joint sealant and seal cracks immediately.
- Seal all landscaped areas in or adjacent to pavements to reduce moisture migration to subgrade soils.
- Place compacted, low permeability backfill against the exterior side of curb and gutter.
- Place curb, gutter and/or sidewalk directly on clay subgrade soils rather than on unbound granular base course materials.

General Comments

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration. Variations will occur between exploration point locations or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in this report, to provide observation and testing services during pertinent construction phases. If variations appear, we can provide

further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly effect excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety and cost estimating including excavation support and dewatering requirements/design are the responsibility of others. Construction and site development have the potential to affect adjacent properties. Such impacts can include damages due to vibration, modification of groundwater/surface water flow during construction, foundation movement due to undermining or subsidence from excavation, as well as noise or air quality concerns. Evaluation of these items on nearby properties are commonly associated with contractor means and methods and are not addressed in this report. The owner and contractor should consider a preconstruction/precondition survey of surrounding development. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

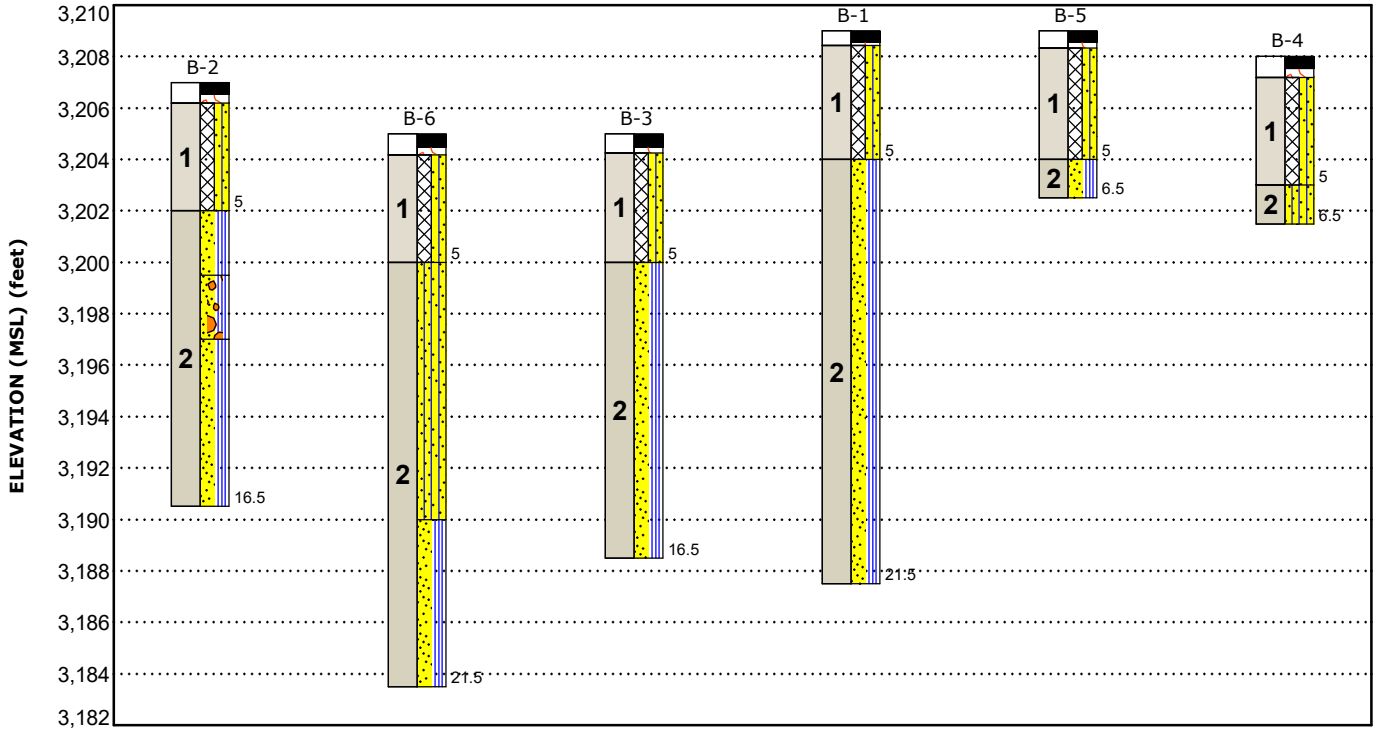
Figures

Contents:

GeoModel

Terracon
145 W Walnut St
Gardena, CA

GeoModel



This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

Model Layer	Layer Name	General Description
1	Fill - SM	Fill - Silty Sand
2	SP-SM / SM	Poorly Graded Sand with Silt / Silty Sand

Legend

- Asphalt
- Aggregate Base Course
- Silty Sand
- Poorly-graded Sand with Silt
- Poorly-graded Sand with Silt and Gravel

NOTES:
Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project.
Numbers adjacent to soil column indicate depth below ground surface.

Attachments

Exploration and Testing Procedures

Field Exploration

Number of Borings	Approximate Boring Depth (feet)	Location
1	20 feet	Proposed Underground Storage Tanks
1	20 feet	Proposed Service Building
2	15 feet	Proposed Fuel Station – Canopy Area
1	5 feet	Proposed pavement area

Boring Layout and Elevations: Terracon personnel provided the boring layout using handheld GPS equipment (estimated horizontal accuracy of about ±10 feet) and referencing existing site features. Approximate ground surface elevations were estimated using Google Earth. If elevations and a more precise boring layout are desired, we recommend borings be surveyed.

Subsurface Exploration Procedures: We advanced the borings in the proposed fuel station with a truck-mounted drill rig using continuous hollow stem flight. Four samples were obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. Test samples were collected during drilling in general accordance with the appropriate ASTM methods using Standard Penetration Testing (SPT) and sampling using either standard split-spoon or Modified California samplers. A sampling spoon was driven into the ground by a 140 pound automatic hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18 inch penetration was recorded as the Standard Penetration Test (SPT) resistance value, also referred to as N-values. The N-values are indicated on the boring logs at the test depths. The samples were placed in appropriate containers, taken to our soil laboratory for testing, and classified by a geotechnical engineer.

For safety purposes, all borings were backfilled with auger cuttings after their completion.

We also observed the boreholes while drilling and at the completion of drilling for the presence of groundwater. Groundwater was not encountered during exploration.

The sampling depths, penetration distances, and other sampling information was recorded on the field boring logs. The samples were placed in appropriate containers and taken to our soil laboratory for testing and classification by a Geotechnical Engineer. Our exploration team prepared field boring logs as part of the drilling operations. These field

logs included visual classifications of the materials observed during drilling and our interpretation of the subsurface conditions between samples. Final boring logs were prepared from the field logs. The final boring logs represent the Geotechnical Engineer's interpretation of the field logs and include modifications based on observations and tests of the samples in our laboratory.

Laboratory Testing

The project engineer reviewed the field data and assigned laboratory tests. The laboratory testing program included the following types of tests:

- Moisture Content
- Dry Unit Weight
- Atterberg Limits
- Compaction
- Swell Consolidation Test
- Direct Shear
- Corrosivity
- R-value

The laboratory testing program often included examination of soil samples by an engineer. Based on the results of our field and laboratory programs, we described and classified the soil samples in accordance with the Unified Soil Classification System.

Site Location and Exploration Plans

Contents:

Site Location Plan
Exploration Plan

Note: All attachments are one page unless noted above.

Site Location

DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

Exploration Plan

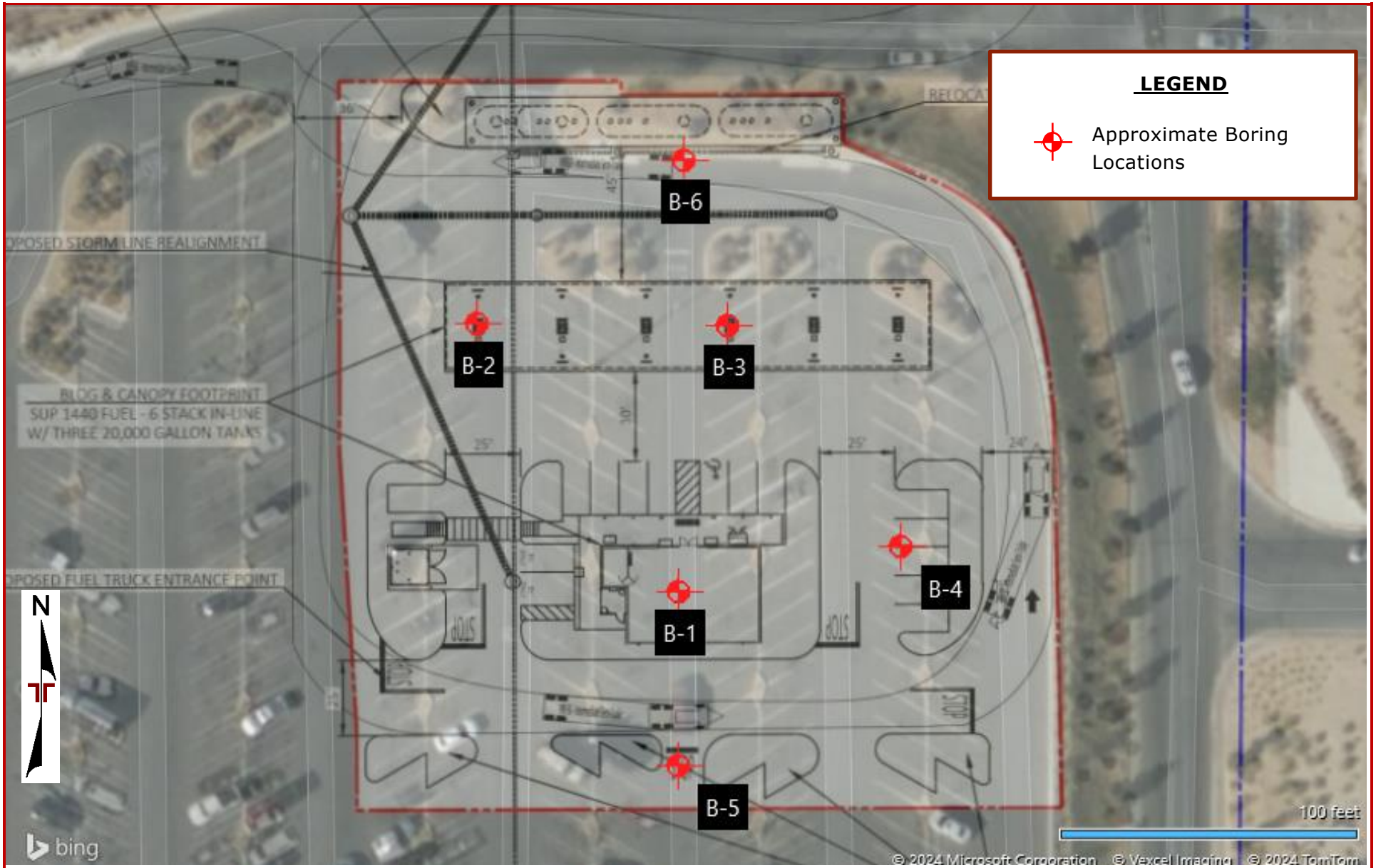


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

Exploration and Laboratory Results

Contents:

Boring Logs (B-1 through B-6)
Atterberg Limits
Compaction Graph
Swell Consolidation Test Graph (2 pages)
Direct Shear Graph
Corrosion Results
R-value Results

Note: All attachments are one page unless noted above.

Yucca Valley Fuel Center
58501 Twenty Nine Palms Hwy | Yucca Valley, CA
Terracon Project No. LA245053

Terracon
145 W Walnut St
Gardena, CA

Boring Log No. B-1

Location: See Exploration Plan

Latitude: 34.1338° Longitude: -116.3835°

Model Layer	Depth (Ft.)	Graphic Log	Material Description	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits LL-PL-PI	Percent Fines
	0.4		**ASPHALT**, 5'' thickness								
	0.6		**AGGREGATE BASE COURSE**, 2'' thickness								
1			**FILL - SILTY SAND (SM)**, brown dense				18-17-13 N=30	4.7		NP	14
	5.0			5							
2			**POORLY GRADED SAND WITH SILT (SP-SM)**, brown, medium dense				6-10-13	2.0	109		
							5-7-9 N=16				
			loose	10			9-8-10	3.6	112		
			medium dense	15			5-8-10 N=18				
				20			11-15-19	2.5	116		
	21.5		***Boring Terminated at 21.5 Feet***								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Water Level Observations
The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Drill Rig
CME-75

Hammer Type
Automatic

Driller
2R Drilling

Logged by
TA

Boring Started
04-02-2024

Boring Completed
04-02-2024

Notes

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Advancement Method
8" Hollow Stem Auger

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with asphalt

Yucca Valley Fuel Center
58501 Twenty Nine Palms Hwy | Yucca Valley, CA
Terracon Project No. LA245053

Terracon
145 W Walnut St
Gardena, CA

Boring Log No. B-2

Location: See Exploration Plan

Latitude: 34.1340° Longitude: -116.3837°

Model Layer	Graphic Log	Depth (Ft.)	Material Description	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits LL-PL-PI	Percent Fines
		0.5	**ASPHALT**, 5.5'' thickness								
		0.8	**AGGREGATE BASE COURSE**, 4'' thickness								
1			**FILL - SILTY SAND (SM)**, brown								14
			dense				18-29-45	5.9	122		
		5.0		5							
			POORLY GRADED SAND WITH SILT (SP-SM), brown, loose				4-4-5 N=9				
		7.5									
			POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), brown, medium dense				15-25-23	4.1	119		
		10.0		10							
2			**POORLY GRADED SAND WITH SILT (SP-SM)**, trace gravel, brown, dense				8-12-27 N=39				6
			medium dense	15			7-12-10	3.8	119		
		16.5									
			Boring Terminated at 16.5 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Water Level Observations
Groundwater not encountered

Drill Rig
CME-75

Hammer Type
Automatic

Driller
2R Drilling

Logged by
TA

Boring Started
04-02-2024

Boring Completed
04-02-2024

Notes

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Advancement Method
8'' Hollow Stem Auger

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with asphalt

Terracon
145 W Walnut St
Gardena, CA

Boring Log No. B-3

Location: See Exploration Plan

Latitude: 34.1340° Longitude: -116.3834°

Model Layer	Depth (Ft.)	Material Description	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits LL-PL-PI	Percent Fines
	0.5	**ASPHALT**, 6" thickness							
	0.8	**AGGREGATE BASE COURSE**, 3" thickness							
1		**FILL - SILTY SAND (SM)**, brown medium dense			13-25-29	4.7	120		
	5.0								
2		**POORLY GRADED SAND WITH SILT (SP-SM)**, brown, loose			3-4-5 N=9			NP	
					6-9-8	3.7	106		
					3-4-5 N=9				
		medium dense			7-11-14	2.1	111		
	16.5	***Boring Terminated at 16.5 Feet***							

5
10
15

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Water Level Observations
Groundwater not encountered

Drill Rig
CME-75

Hammer Type
Automatic

Driller
2R Drilling

Logged by
TA

Boring Started
04-02-2024

Boring Completed
04-02-2024

Notes

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Advancement Method
8" Hollow Stem Auger

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with asphalt

Terracon
145 W Walnut St
Gardena, CA

Boring Log No. B-4

Location: See Exploration Plan

Latitude: 34.1338° Longitude: -116.3833°

Model Layer	Graphic Log	Depth (Ft.)	Description	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits LL-PL-PI	Percent Fines
		0.5	**ASPHALT**, 5.5'' thickness								
		0.8	**AGGREGATE BASE COURSE**, 4'' thickness								
1			**FILL - SILTY SAND (SM)**, brown dense				23-38-43	5.9	122		
		5.0		5							
2			**SILTY SAND (SM)**, brown, medium dense				10-11-15	2.9	110		
		6.5	***Boring Terminated at 6.5 Feet***								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Water Level Observations
Groundwater not encountered

Drill Rig
CME-75

Hammer Type
Automatic

Driller
2R Drilling

Notes

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Advancement Method
8'' Hollow Stem Auger

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with asphalt

Logged by
TA

Boring Started
04-02-2024

Boring Completed
04-02-2024

Yucca Valley Fuel Center
58501 Twenty Nine Palms Hwy | Yucca Valley, CA
Terracon Project No. LA245053

Terracon
145 W Walnut St
Gardena, CA

Boring Log No. B-5

Model Layer	Graphic Log	Location: See Exploration Plan Latitude: 34.1336° Longitude: -116.3835° Depth (Ft.)	Depth (Ft.)	Water Level Observations	Sample Type	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits LL-PL-PI	Percent Fines
		0.4 **ASPHALT**, 5'' thickness								
		0.7 **AGGREGATE BASE COURSE**, 3'' thickness								
1		**FILL - SILTY SAND (SM)**, brown dense				32-46-40	6.6	122		
		5.0	5							
2		**POORLY GRADED SAND WITH SILT (SP-SM)**, brown, medium dense				13-11-11	2.6	107		
		6.5								
		Boring Terminated at 6.5 Feet								

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Water Level Observations
Groundwater not encountered

Drill Rig
CME-75

Hammer Type
Automatic

Driller
2R Drilling

Notes

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Advancement Method
8" Hollow Stem Auger

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with asphalt

Logged by
TA

Boring Started
04-02-2024

Boring Completed
04-02-2024

Yucca Valley Fuel Center
58501 Twenty Nine Palms Hwy | Yucca Valley, CA
Terracon Project No. LA245053

Terracon
145 W Walnut St
Gardena, CA

Boring Log No. B-6

Location: See Exploration Plan

Latitude: 34.1342° Longitude: -116.3835°

Model Layer	Depth (Ft.)	Material Description	Depth (Ft.)	Field Test Results	Water Content (%)	Dry Unit Weight (pcf)	Atterberg Limits LL-PL-PI	Percent Fines
	0.5	**ASPHALT**, 6" Thickness						
	0.8	**AGGREGATE BASE COURSE**, 4" thickness						
1		**FILL - SILTY SAND (SM)**, brown medium dense		7-11-13 N=24				
	5.0		5					
2		**SILTY SAND (SM)**, brown, medium dense loose		9-10-10	3.7	113		
				3-3-3 N=6				10
			10	5-7-9	4.1	111		
	15.0		15					
		POORLY GRADED SAND WITH SILT (SP-SM), brown, medium dense		3-5-5 N=10				6
			20					
	21.5			7-8-11	3.3	114		
		Boring Terminated at 21.5 Feet						

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

Water Level Observations
Groundwater not encountered

Drill Rig
CME-75

Hammer Type
Automatic

Driller
2R Drilling

Logged by
TA

Boring Started
04-02-2024

Boring Completed
04-02-2024

Notes

The estimated depth of fill should not be considered exact due to the similarity of lithology, color, and densities of the graded materials and native soils.

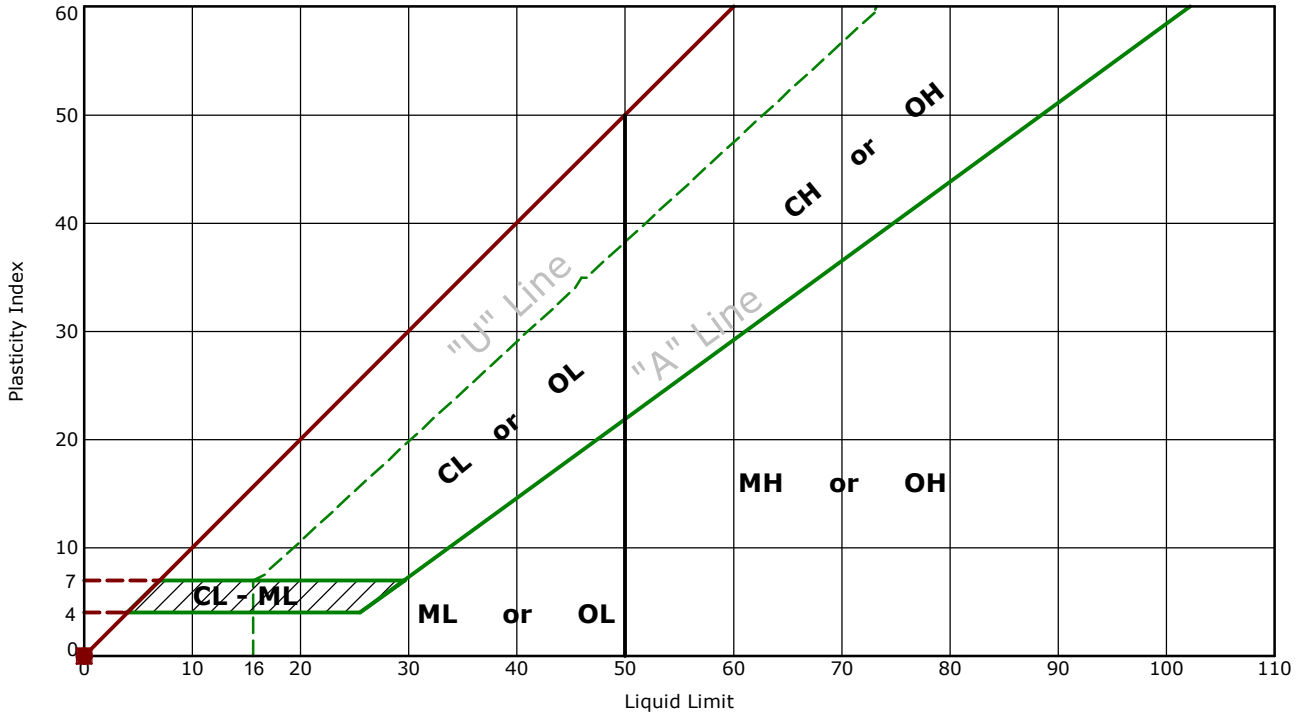
Advancement Method
8" Hollow Stem Auger

Abandonment Method
Boring backfilled with Auger Cuttings
Surface capped with asphalt

Terracon
145 W Walnut St
Gardena, CA

Atterberg Limit Results

ASTM D4318

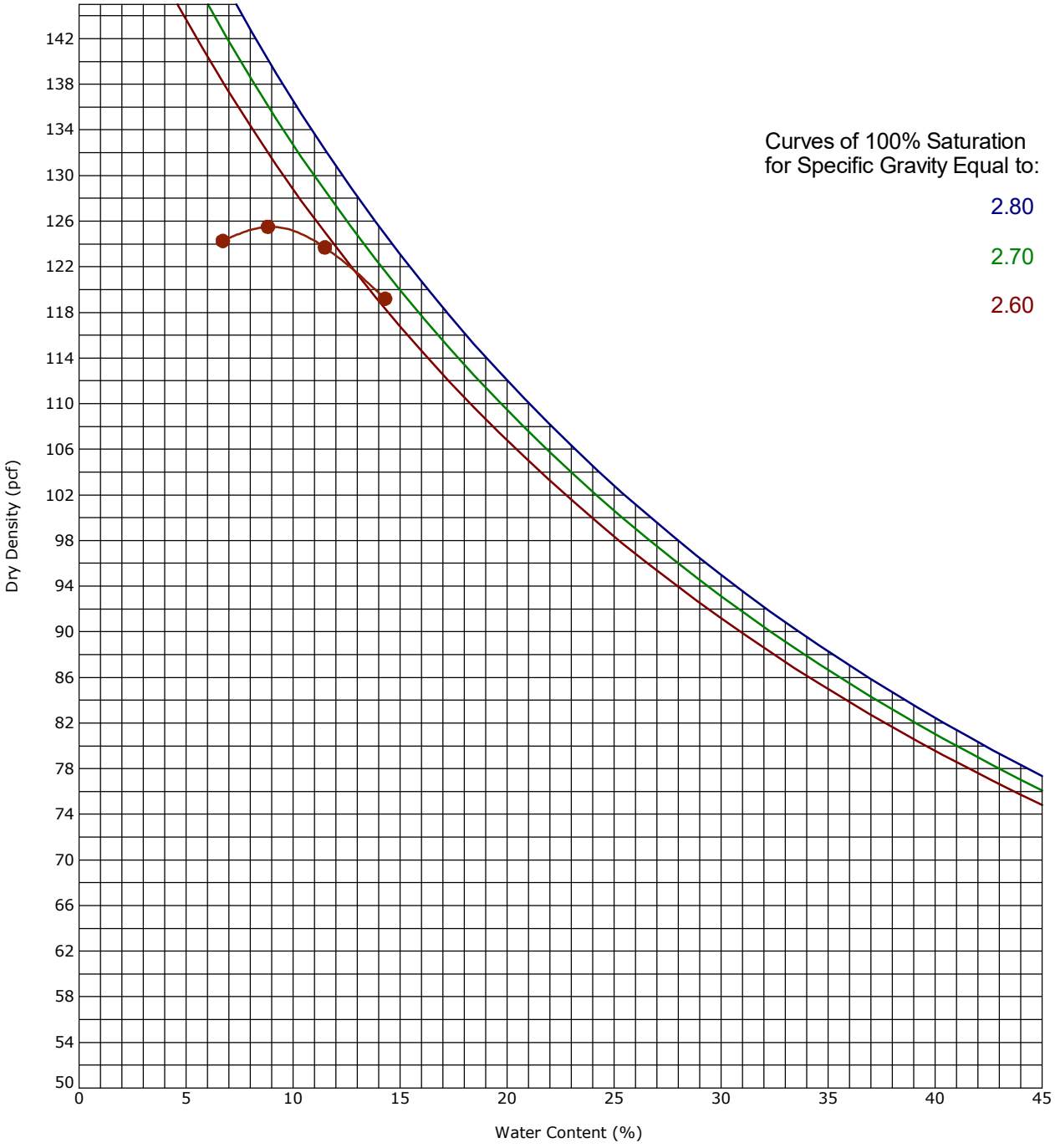


	Boring ID	Depth (Ft)	LL	PL	PI	Fines	USCS	Description
●	B-1	0.6 - 5	NP	NP	NP	13.9	SM	SILTY SAND
⊠	B-3	5 - 6.5	NP	NP	NP		SP-SM	POORLY GRADED SAND WITH SILT

Terracon
145 W Walnut St
Gardena, CA

Moisture-Density Relationship

ASTM D1557-Method B

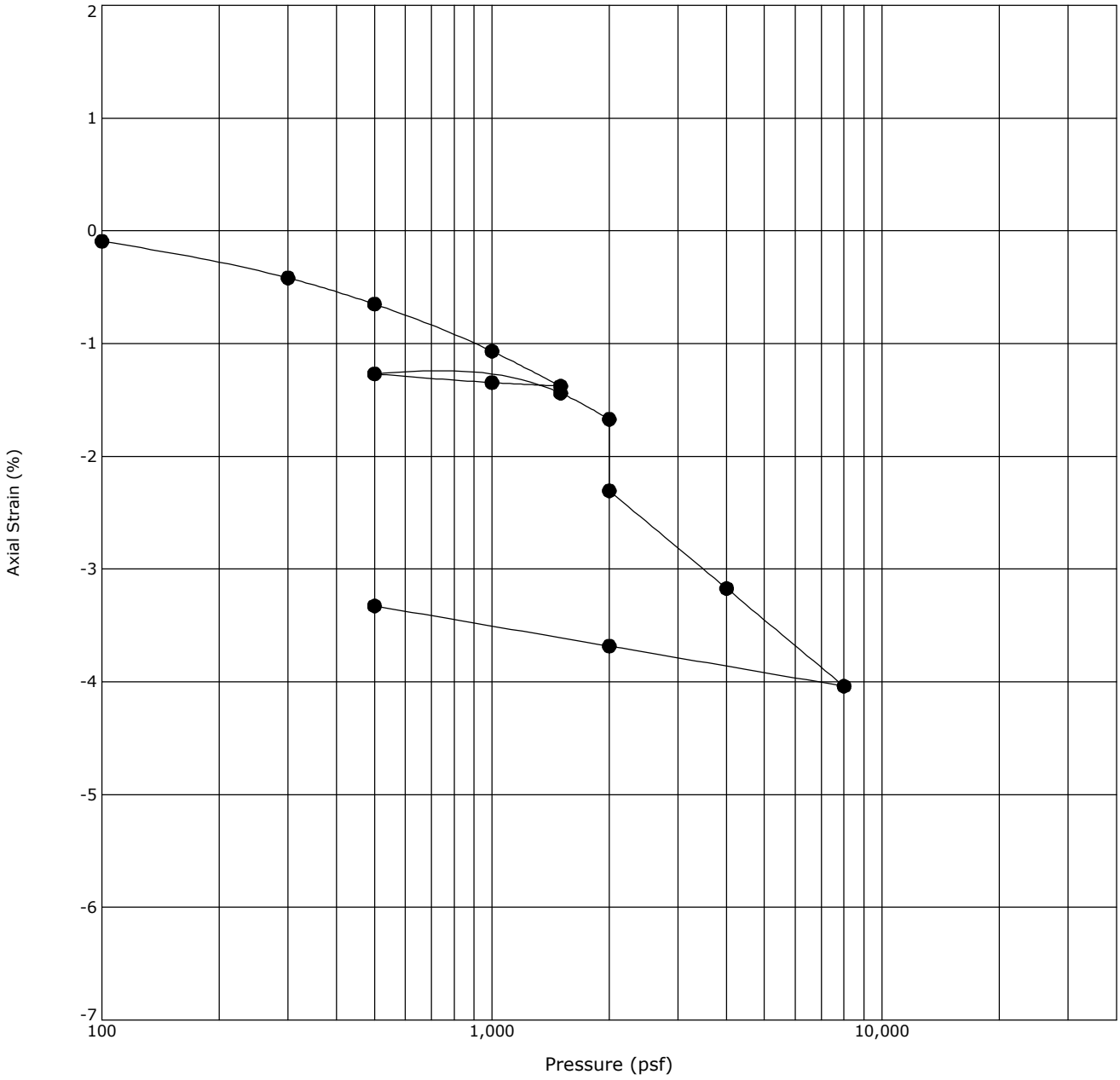


Boring ID	Depth (Ft)	Description of Materials
B-5	0.66 - 5	SILTY SAND

Fines (%)	Fraction > mm size	LL	PL	PI	Test Method	Maximum Dry Density (pcf)	Optimum Water Content (%)
					ASTM D1557-Method B	125.5	9.0

One-Dimensional Swell or Collapse

ASTM D4546

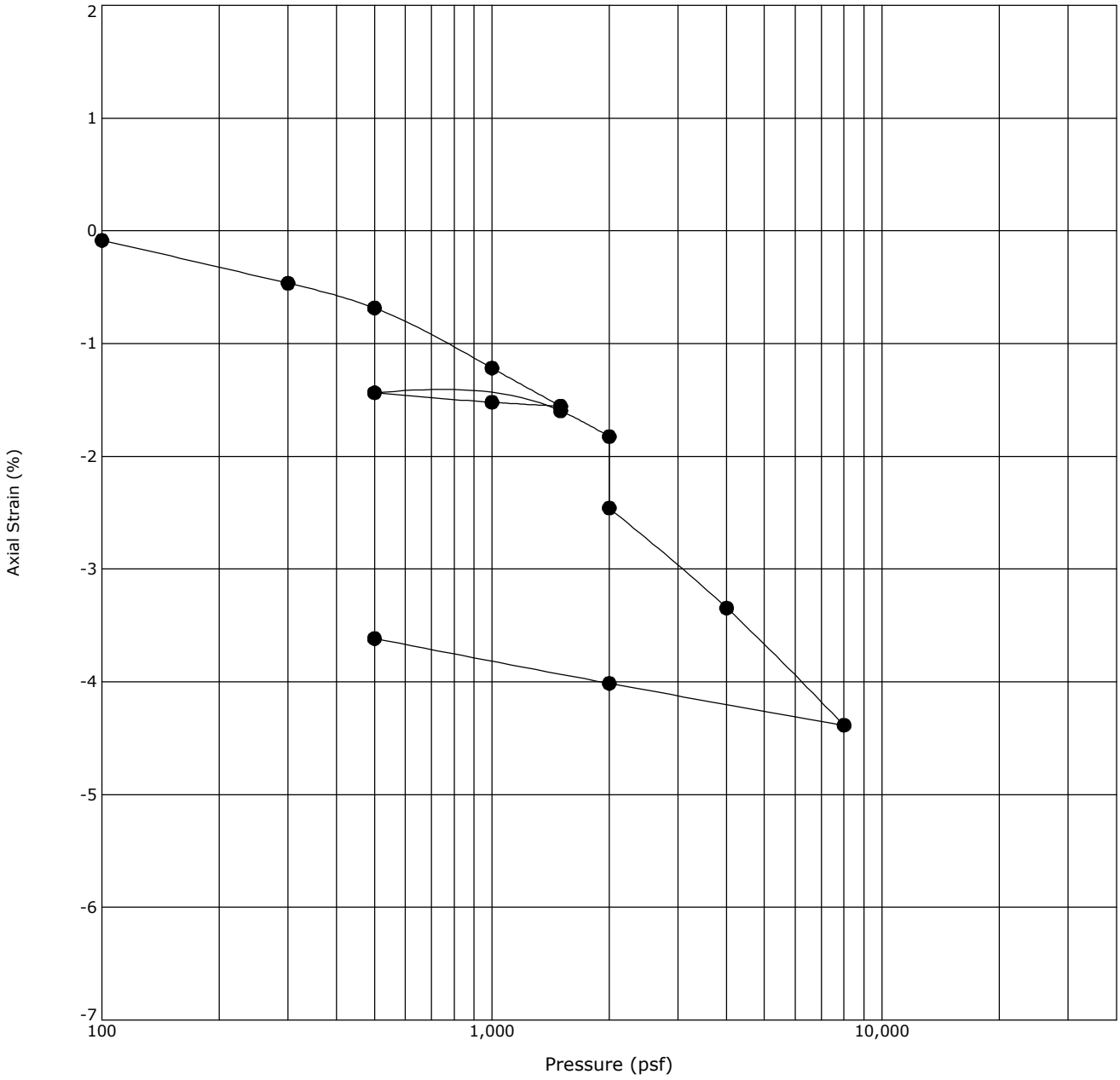


Boring ID		Depth (Ft)	Description	USCS	γ_d(pcf)	WC (%)
●	B-1	5 - 6.5	POORLY GRADED SAND WITH SILT	SP-SM	109	2.0

Notes: water added at 2,000 psf

One-Dimensional Swell or Collapse

ASTM D4546



Boring ID		Depth (Ft)	Description	USCS	γ_d(pcf)	WC (%)
●	B-3	2.5 - 4	SILTY SAND	SM	120	4.7

Notes: water added at 2000 psf

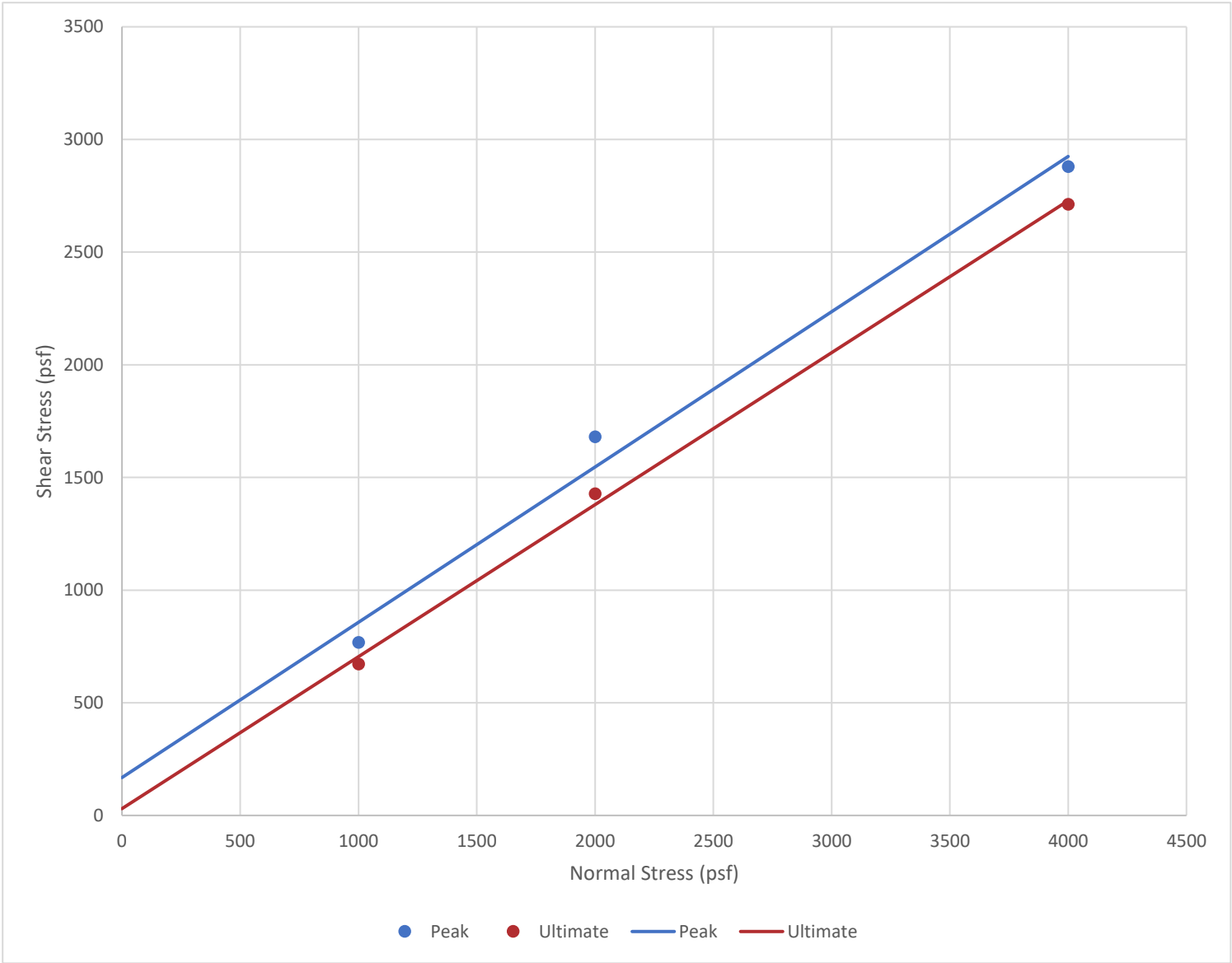
Terracon
145 W Walnut St.
Gardena, CA

Direct Shear Test

ASTM D3080

Boring ID	Depth (ft)	Description	USCS	γ_d (pcf)	W(%)
B-3	7.5	Poorly Graded Sand with Silt	SP-SM	106	7.6

Normal Stress (psf)	Peak Shear Stress (psf)	Ultimate Shear Stress (psf)	Peak		Ultimate	
			φ°	C (psf)	φ°	C (psf)
1000	768	672	**35.0**	**170**	**34.0**	**30**
2000	1680	1428				
4000	2880	2712				



750 Pilot Road, Suite F
Las Vegas, Nevada 89119
(702) 597-9393

Client
Kimley-Horn and Associates Inc

Project
WM Fuel Yucca Valley Fuel 1915

Sample Submitted By: Terracon (LA) **Date Received:** 4/10/2024 **Lab No.: 24-0140**

Results of Corrosion Analysis

Sample Number	--	--
Sample Location	B-1	B-3
Sample Depth (ft.)	0.0-5.0	0.0-5.0
pH Analysis, ASTM G51	8.22	8.46
Water Soluble Sulfate (SO4), ASTM C 1580 (Percent %)	0.01	0.01
Sulfides, AWWA 4500-S D, (mg/Kg)	Nil	Nil
Chlorides, ASTM D512, (mg/kg)	55	95
Red-Ox, ASTM G200, (mV)	+733	+732
Total Salts, AWWA 2520 B, (mg/Kg)	286	339
Saturated Minimum Resistivity, ASTM G-57, (ohm-cm)	4020	6499

Analyzed By N. Campo

Nathan Campo
Laboratory Coordinator

The tests were performed in general accordance with applicable ASTM and AWWA test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

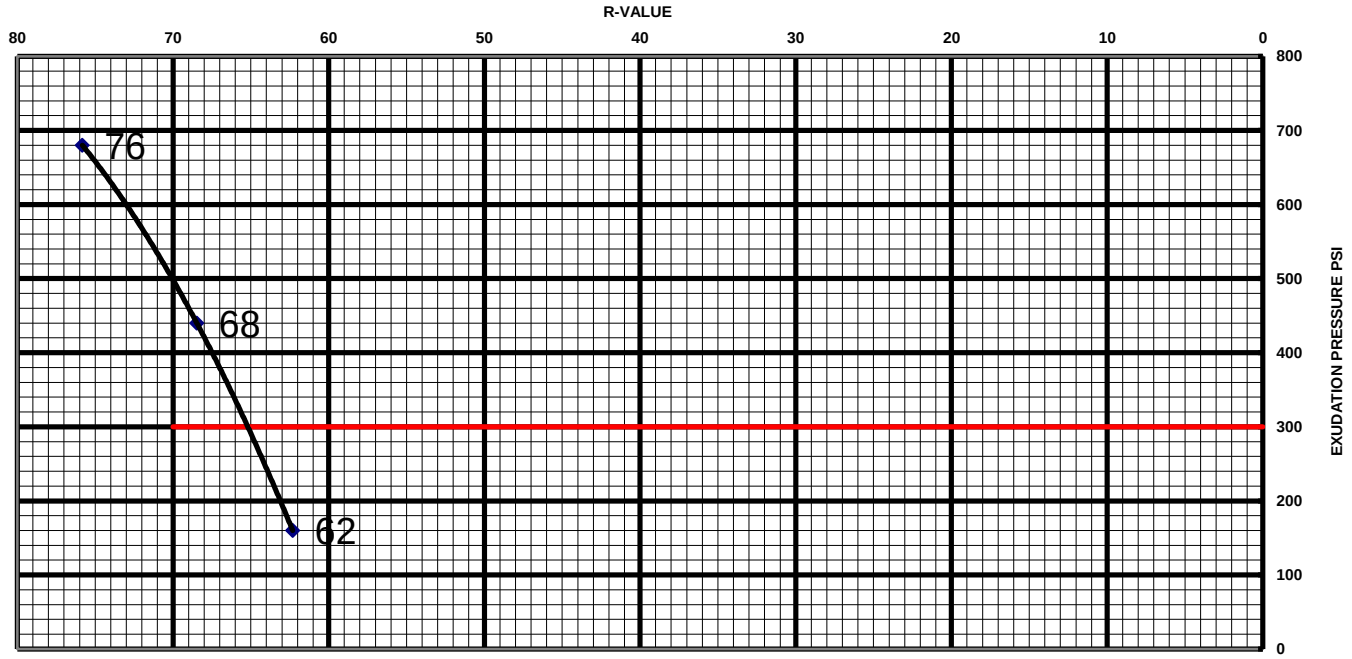
Job No. LA245053
Date. 4/13/2024

LABORATORY RECORD OF TESTS MADE ON BASE, SUBBASE, AND BASEMENT SOILS

CLIENT: **Kimley-Horn and Associates**
PROJECT LOCATION: **Yucca Valley Fuel Center**
R-VALUE # : **B-4**
T.I. :

	A	B	C	D
COMPACTOR AIR PRESSURE P.S.I.	350	350	350	
INITIAL MOISTURE %	4.4	4.4	4.4	
WATER ADDED, ML	50	40	30	
WATER ADDED %	4.6	3.7	2.7	
MOISTURE AT COMPACTION %	9.0	8.1	7.1	
HEIGHT OF BRIQUETTE	2.45	2.47	2.51	
WET WEIGHT OF BRIQUETTE	1134	1138	1147	
DENSITY LB. PER CU.FT.	128.7	129.2	129.2	
STABILOMETER PH AT 1000 LBS.	21	17	14	
2000 LBS.	35	29	22	
DISPLACEMENT	5.40	5.20	5.00	
R-VALUE	62	68	76	
EXUDATION PRESSURE	160	440	680	
THICK. INDICATED BY STAB.	0.00	0.00	0.00	
EXPANSION PRESSURE	0	0	0	
THICK. INDICATED BY E.P.	0.00	0.00	0.00	

EXUDATION CHART



R-Value: **65**

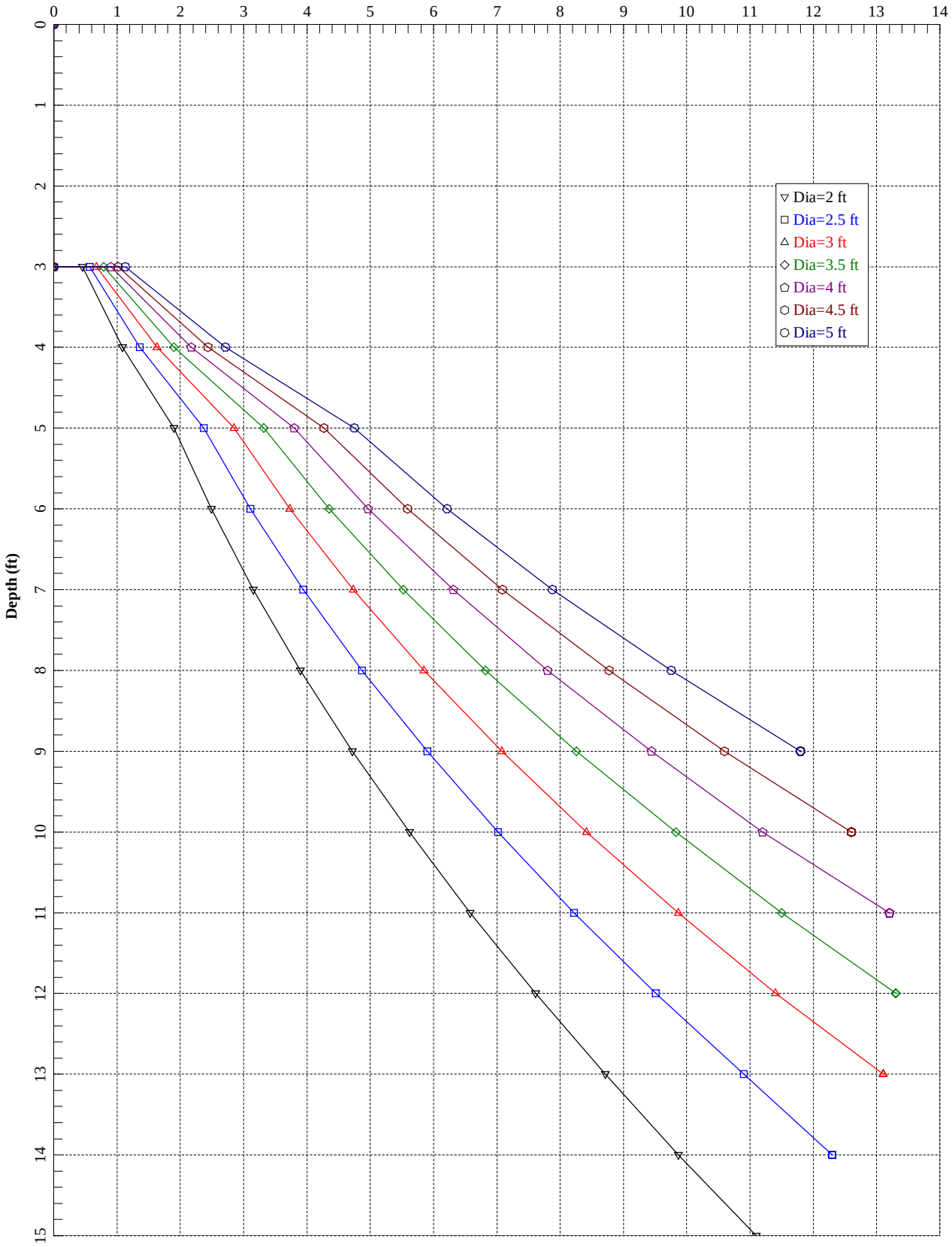
Supporting Information

Contents:

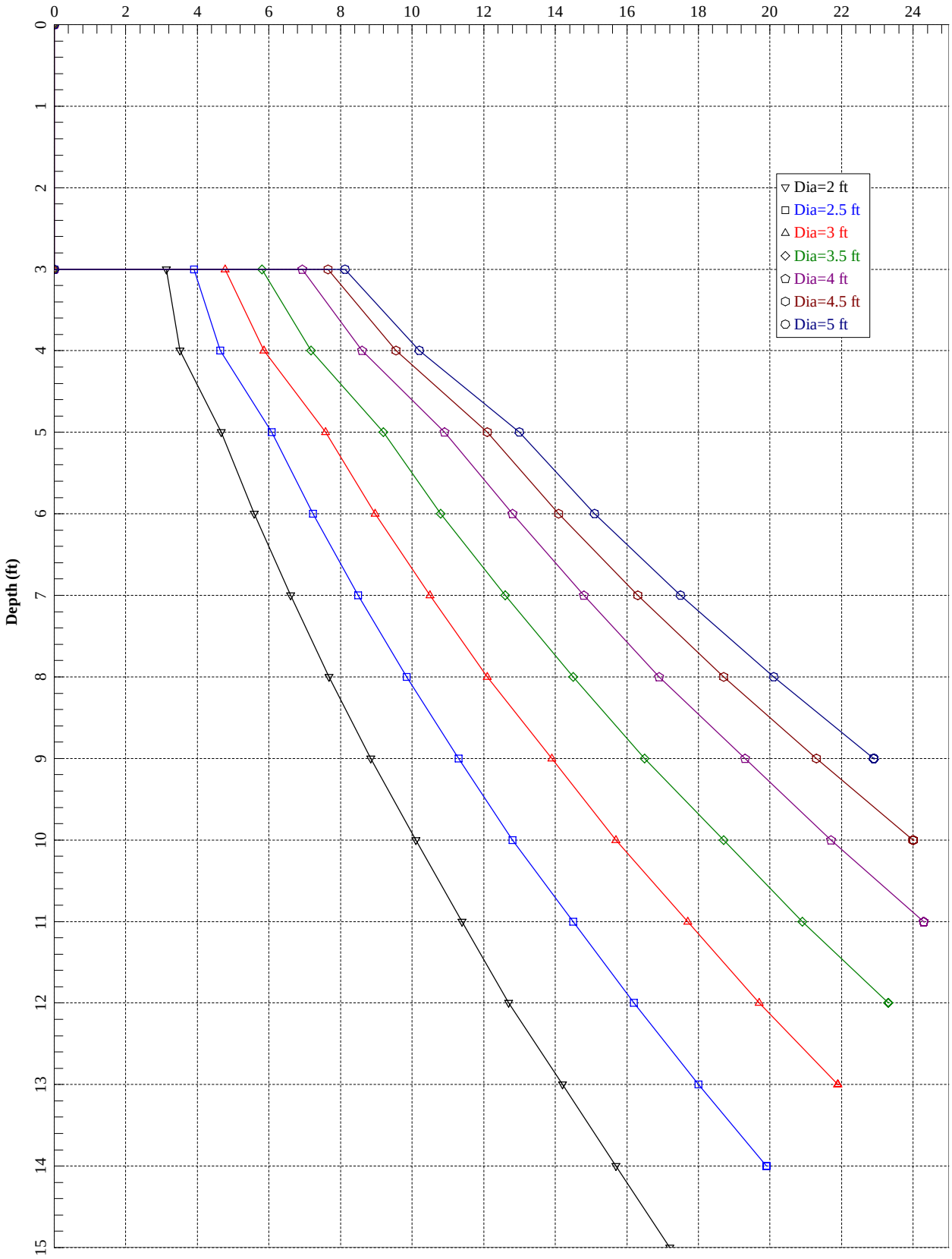
Shaft Analyses
General Notes
Unified Soil Classification System
Geotechnical Investigation Fact Sheet

Note: All attachments are one page unless noted above.

Allowable Skin Friction
Side Resistance/F.S. (tons)

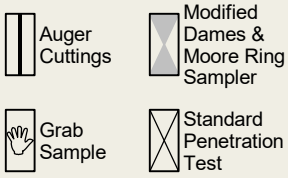


Allowable Downward Capacity
Total Resistance/F.S. (tons)



Terracon
145 W Walnut St
Carson, CA

General Notes

Sampling	Water Level	Field Tests
 Auger Cuttings; Modified Dames & Moore Ring Sampler; Grab Sample; Standard Penetration Test	Water Initially Encountered; Water Level After a Specified Period of Time; Water Level After a Specified Period of Time; Cave In Encountered Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.	N Standard Penetration Test Resistance (Blows/Ft.) (HP) Hand Penetrometer (T) Torvane (DCP) Dynamic Cone Penetrometer UC Unconfined Compressive Strength (PID) Photo-Ionization Detector (OVA) Organic Vapor Analyzer

Descriptive Soil Classification

Soil classification as noted on the soil boring logs is based Unified Soil Classification System. Where sufficient laboratory data exist to classify the soils consistent with ASTM D2487 "Classification of Soils for Engineering Purposes" this procedure is used. ASTM D2488 "Description and Identification of Soils (Visual-Manual Procedure)" is also used to classify the soils, particularly where insufficient laboratory data exist to classify the soils in accordance with ASTM D2487. In addition to USCS classification, coarse grained soils are classified on the basis of their in-place relative density, and fine-grained soils are classified on the basis of their consistency. See "Strength Terms" table below for details. The ASTM standards noted above are for reference to methodology in general. In some cases, variations to methods are applied as a result of local practice or professional judgment.

Location And Elevation Notes

Exploration point locations as shown on the Exploration Plan and as noted on the soil boring logs in the form of Latitude and Longitude are approximate. See Exploration and Testing Procedures in the report for the methods used to locate the exploration points for this project. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

Strength Terms

Relative Density of Coarse-Grained Soils
(More than 50% retained on No. 200 sieve.)
Density determined by Standard Penetration Resistance

Relative Density	Standard Penetration or N-Value (Blows/Ft.)	Ring Sampler (Blows/Ft.)
Very Loose	0 - 3	0 - 6
Loose	4 - 9	7 - 18
Medium Dense	10 - 29	19 - 58
Dense	30 - 50	59 - 98
Very Dense	> 50	> 99

Consistency of Fine-Grained Soils
(50% or more passing the No. 200 sieve.)
Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance

Consistency	Unconfined Compressive Strength Qu (tsf)	Standard Penetration or N-Value (Blows/Ft.)	Ring Sampler (Blows/Ft.)
Very Soft	less than 0.25	0 - 1	< 3
Soft	0.25 to 0.50	2 - 4	3 - 4
Medium Stiff	0.50 to 1.00	4 - 8	5 - 9
Stiff	1.00 to 2.00	8 - 15	10 - 18
Very Stiff	2.00 to 4.00	15 - 30	19 - 42
Hard	> 4.00	> 30	> 42

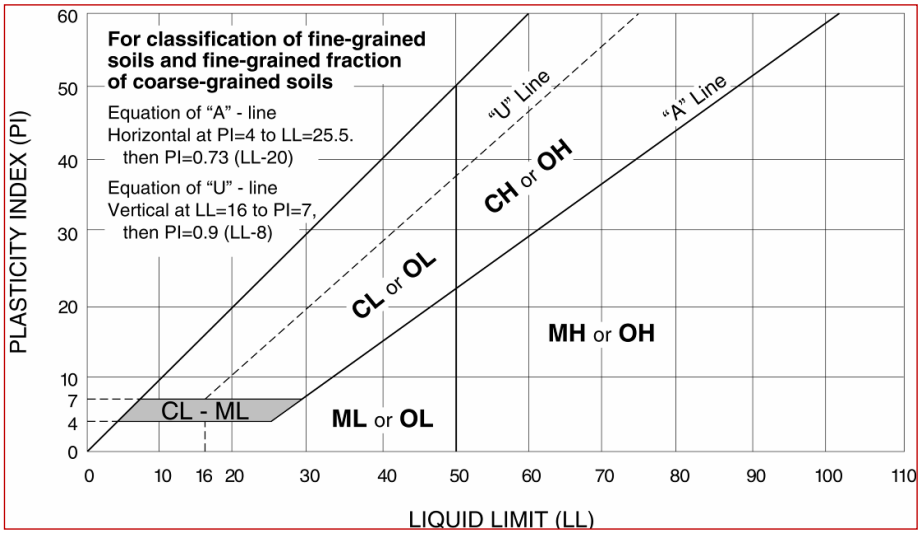
Relevance of Exploration and Laboratory Test Results

Exploration/field results and/or laboratory test data contained within this document are intended for application to the project as described in this document. Use of such exploration/field results and/or laboratory test data should not be used independently of this document.

Unified Soil Classification System

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests [A]				Soil Classification	
				Group Symbol	Group Name [B]
Coarse-Grained Soils: More than 50% retained on No. 200 sieve	**Gravels:** More than 50% of coarse fraction retained on No. 4 sieve	**Clean Gravels:** Less than 5% fines [C]	Cu≥4 and 1≤Cc≤3 [E]	GW	Well-graded gravel [F]
			Cu<4 and/or [Cc<1 or Cc>3.0] [E]	GP	Poorly graded gravel [F]
		Gravels with Fines: More than 12% fines [C]	Fines classify as ML or MH	GM	Silty gravel [F, G, H]
			Fines classify as CL or CH	GC	Clayey gravel [F, G, H]
	Sands: 50% or more of coarse fraction passes No. 4 sieve	**Clean Sands:** Less than 5% fines [D]	Cu≥6 and 1≤Cc≤3 [E]	SW	Well-graded sand [I]
			Cu<6 and/or [Cc<1 or Cc>3.0] [E]	SP	Poorly graded sand [I]
		Sands with Fines: More than 12% fines [D]	Fines classify as ML or MH	SM	Silty sand [G, H, I]
			Fines classify as CL or CH	SC	Clayey sand [G, H, I]
Fine-Grained Soils: 50% or more passes the No. 200 sieve	**Silts and Clays:** Liquid limit less than 50	**Inorganic:**	PI > 7 and plots above "A" line [J]	CL	Lean clay [K, L, M]
			PI < 4 or plots below "A" line [J]	ML	Silt [K, L, M]
		Organic:	$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OL	Organic clay [K, L, M, N]
					Organic silt [K, L, M, O]
	Silts and Clays: Liquid limit 50 or more	**Inorganic:**	PI plots on or above "A" line	CH	Fat clay [K, L, M]
			PI plots below "A" line	MH	Elastic silt [K, L, M]
		Organic:	$\frac{LL\ oven\ dried}{LL\ not\ dried} < 0.75$	OH	Organic clay [K, L, M, P]
					Organic silt [K, L, M, Q]
Highly organic soils:	Primarily organic matter, dark in color, and organic odor			PT	Peat

[A] Based on the material passing the 3-inch (75-mm) sieve.
[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.
[D] Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.
[E] $Cu = D_{60}/D_{10}$ $\quad Cc = \frac{(D_{30})^2}{D_{10} \times D_{60}}$
[F] If soil contains ≥ 15% sand, add "with sand" to group name.
[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.
[H] If fines are organic, add "with organic fines" to group name.
[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.
[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.
[N] PI ≥ 4 and plots on or above "A" line.
[O] PI < 4 or plots below "A" line.
[P] PI plots on or above "A" line.
[Q] PI plots below "A" line.



GEOTECHNICAL INVESTIGATION FACT SHEET

Include this form in the Geotechnical Report as an Appendix.

PROJECT LOCATION: 58501 Twenty Nine Palms Hwy., Yucca Valley, CA

Engineer: Joshua R. Morgan Phone #: (949) 864-2048

Geotechnical Engineering Co.: Terracon Consultants Report Date: 5/7/2024

Ground Water Elevation: Not encountered to a maximum explored depth of 21.5 feet Fill Soils Characteristics:
(If encountered)

Date Groundwater Measured: N/A

Maximum Liquid Limit: NP

Topsoil/Stripping Depth: N/A

Maximum Plasticity Index: NP

Undercut (If Required): 24 inches beneath slab and footings

Specified Compaction: Per ***Fill Compaction Requirements***

Standard Proctor Results: (Attach plots.)

Moisture Content Range: _____

pH: 8.22 - 8.46

Corrective actions required for construction based on pH level noted: Consult Corrosion Engineer

Resistivity: 4,020 - 6,499 ohm-cm

Corrective actions required for construction based on resistivity level noted:
Consult Corrosion Engineer

Cement Type: No restrictions

Recommended local DOT subbase/base material (reference section plan in Foundation Subsurface Preparation):
Base course shall conform to Section 26 of Caltrans "Standard Specifications"

Recommended Compaction Control Tests:

1 Test for Each 2,500 Sq. Ft. each Lift (bldg. area)
1 Test for Each 5,000 Sq. Ft. each Lift (parking area)

Structural Fill Maximum Lift Thickness 10 in. (Measured loose)

Subgrade Design CBR value = R-value = 65

COMPONENT	ASPHALT		CONCRETE	
	Standard	heavy	standard	heavy
Stabilized Subgrade (If Applicable)	3"	3"	5"	6"
Base Material (Stone, Sand/Shell, etc.)	4"	6"	4"	4"
Asphalt Base Course	_____	_____		
Leveling Binder Course	_____	_____		
Surface Course	_____	_____	_____	_____

NOTE: This information shall not be used separately from the geotechnical report.

FOUNDATION DESIGN CRITERIA

Include this form in the Geotechnical Report as an Appendix.

PROJECT LOCATION: 58501 Twenty Nine Palms Hwy., Yucca Valley, CA

Engineer: Joshua R. Morgan Phone #: (949) 864-2048

Geotechnical Engineering Co.: Terracon Consultants Report Date: 5/7/2024

Foundation type: Spread footings

Allowable bearing pressure: → 3,000 psf up to 4 feet wide
2,500 psf up to 6 feet wide
2,000 psf up to 10 feet wide

Factor of Safety: 3

Minimum footing dimensions: Individual: 24-inch Continuous: 18-inch

Minimum footing embedment: Exterior: 18-inch Interior: 18-inch

Frost depth: Not applicable

Maximum foundation settlements: Total: 1-inch

Differential: 0.5-inch over 40ft

Slab: Potential vertical rise: Not applicable

Capillary Break (not a vapor barrier) describe: On-site soils considered suitable

Subgrade reaction modulus: 150 psi/in Method obtained: Engineered Fill

Active Equivalent Fluid Pressures 38 psf/ft

Passive Equivalent Fluid Pressures 375 psf/ft (ULTIMATE VALUE)

Perimeter Drains (describe): Building: Not applicable
Retaining Walls : Not applicable

Retaining Wall: At rest pressure: Not applicable
Coefficient of friction: Not applicable

COMMENTS:

APPENDIX D, MOJAVE RIVER WATERSHED WATER QUALITY MANAGEMENT PLAN

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MOJAVE RIVER WATERSHED

Water Quality Management Plan

For:

Wal-Mart 1915 Fuel - Yucca Valley

CUP 01-25 | EA 02-25

Prepared for:

Wal-Mart Stores, Inc.

58501 29 Palms Hwy

Yucca Valley, CA 92284

479-871-7573

Prepared by:

Kimley-Horn

1100 W Town and Country Rd., Suite 700

Orange, CA 92868

714-939-1030

Submittal Date: 9/8/2025

Revision No. and Date: Insert No and Current Revision Date

Revision No. and Date: Insert No and Current Revision Date

Revision No. and Date: Insert No and Current Revision Date

Revision No. and Date: Insert No and Current Revision Date

Revision No. and Date: Insert No and Current Revision Date

Final Approval Date:_____

Project Owner's Certification

This Mojave River Watershed Water Quality Management Plan (WQMP) has been prepared for Wal-Mart Stores, Inc., by Kimley-Horn. The WQMP is intended to comply with the requirements of the Town of Yucca Valley and the Phase II Small MS4 General Permit for the Mojave River Watershed. The undersigned, while it owns the subject property, is responsible for the implementation of the provisions of this plan and will ensure that this plan is amended as appropriate to reflect up-to-date conditions on the site consistent with the Phase II Small MS4 Permit and the intent of San Bernardino County (unincorporated areas of Phelan, Oak Hills, Spring Valley Lake and Victorville) and the incorporated cities of Hesperia and Victorville and the Town of Apple Valley. Once the undersigned transfers its interest in the property, its successors in interest and the city/county/town shall be notified of the transfer. The new owner will be informed of its responsibility under this WQMP. A copy of the approved WQMP shall be available on the subject site in perpetuity.

"I certify under a penalty of law that the provisions (implementation, operation, maintenance, and funding) of the WQMP have been accepted and that the plan will be transferred to future successors."

Project Data			
Permit/Application Number(s):	CUP 01-25 | EA -2-25	Grading Permit Number(s):	pending
Tract/Parcel Map Number(s):	APN: 0601201540000	Building Permit Number(s):	pending
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			CUP 01-25 | EA 02-25

Owner's Signature			
Owner Name: Wal-Mart Stores, Inc.			
Title			
Company	Wal-Mart		
Address	Mail Stop 0505 702 SW 8th St., Bentonville, AR 72716		
Email			
Telephone #	479-871-7573		
Signature		Date	

Preparer's Certification

Project Data			
Permit/Application Number(s):	CUP 01-25 | EA 02-25	Grading Permit Number(s):	pending
Tract/Parcel Map Number(s):	APN: 0601201540000	Building Permit Number(s):	pending
CUP, SUP, and/or APN (Specify Lot Numbers if Portions of Tract):			CUP 01-25 | EA 02-25

"The selection, sizing and design of stormwater treatment and other stormwater quality and quantity control measures in this plan were prepared under my oversight and meet the requirements of the California State Water Resources Control Board Order No. 2013-0001-DWQ.

Engineer: Jacob Glaze, P.E.		PE Stamp Below
Title	Professional Engineer	
Company	Kimley-Horn	
Address	1100 W Town and Country Rd, Suite 700, Orange, CA 92868	
Email	jacob.glaze@kimley-horn.com	
Telephone #	714-705-1374	
Signature		
Date	9/8/2025	

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Section I – Introduction

This WQMP template has been prepared specifically for the Phase II Small MS4 General Permit in the Mojave River Watershed. This location is within the jurisdiction of the Lahontan Regional Water Quality Control Board (LRWQCB). This document should not be confused with the WQMP template for the Santa Ana Phase I area of San Bernardino County.

WQMP preparers must refer to the MS4 Permit for the Mojave Watershed WQMP template and Technical Guidance (TGD) document found at: http://cms.sbcounty.gov/dpw/Land/NPDES.aspx to find pertinent arid region and Mojave River Watershed specific references and requirements.

Section 1 Discretionary Permit(s)

Form 1-1 Project Information					
Project Name	Wal-Mart 1915 Fuel - Yucca Valley				
Project Owner Contact Name:					
Mailing Address:	Mail Stop 0505 702 SW 8th St., Bentonville, AR 72716	E-mail Address:		Telephone:	479-871-7573
Permit/Application Number(s):	CUP 01-25 | EA 02-25		Tract/Parcel Map Number(s):	APN: 0601201540000	
Additional Information/ Comments:					
Description of Project:	The project site is located on the northeast area of the existing Wal-Mart Supercenter parking lot, located in the Town of Yucca Valley. The project proposes a fuel station with 6 dispensers, overhead canopy, underground storage tanks, and associated convenience store. Proposed work includes hardscape pavement, landscaping and wet and dry utility trenching. The hydrologic soil type was not determined in the Geotech report and USDA Web Soil Survey does not have further information; therefore, soil type D will be assumed. Stormwater runoff will be collected by nearby catch basins and area drains and be conveyed to the existing detention basin on the north side of the parcel. For fueling areas, prior to entering the detention basin, the runoff collected from there will enter an Aqua-Swirl Trash Capture AS-2 Hydrodynamic separator for pre-treatment. The proposed project will provide more pervious surfaces than the existing conditions. The forms in this WQMP will reflect the proposed project area's impact to the site but will be compared to previous conditions to ultimately show that the proposed conditions does not increase the stormwater volumes to the existing detention basin on the north side of the Wal-Mart Parcel.				

Provide summary of Conceptual WQMP conditions (if previously submitted and approved). Attach complete copy.	

Section 2 Project Description

2.1 Project Information

The WQMP shall provide the information listed below. The information provided for Conceptual/ Preliminary WQMP should give sufficient detail to identify the major proposed site design and LID BMPs and other anticipated water quality features that impact site planning. Final Project WQMP must specifically identify all BMP incorporated into the final site design and provide other detailed information as described herein.

The purpose of this information is to help determine the applicable development category, pollutants of concern, watershed description, and long term maintenance responsibilities for the project, and any applicable water quality credits. This information will be used in conjunction with the information in Section 3, Site Description, to establish the performance criteria and to select the LID BMP or other BMP for the project or other alternative programs that the project will participate in, which are described in Section 4.

2.1.1 Project Sizing Categorization

If the Project is greater than 5,000 square feet, and not on the excluded list as found on Section 1.4 of the TGD, the Project is a Regulated Development Project.

If the Project is creating and/or replacing greater than 2,500 square feet but less than 5,000 square feet of impervious surface area, then it is considered a Site Design Only project. This criterion is applicable to all development types including detached single-family homes that create and/or replace greater than 2,500 square feet of impervious area and are not part of a larger plan of development.

Form 2.1-1 Description of Proposed Project

1 Regulated Development Project Category (Select all that apply):					
☐ #1 New development involving the creation of 5,000 ft² or more of impervious surface collectively over entire site	☒ #2 Significant re-development involving the addition or replacement of 5,000 ft² or more of impervious surface on an already developed site	☐ #3 Road Project – any road, sidewalk, or bicycle lane project that creates greater than 5,000 square feet of contiguous impervious surface	☐ #4 LUPs – linear underground/overhead projects that has a discrete location with 5,000 sq. ft. or more new constructed impervious surface		
☐ Site Design Only (Project Total Square Feet > 2,500 but < 5,000 sq.ft.) *Will require source control Site Design Measures. Use the "PCMP" Template. Do not use this WQMP Template.*					
2 Project Area (ft2):	61,805	**3** Number of Dwelling Units:	N/A	**4** SIC Code:	5541
5 Is Project going to be phased? Yes ☐ No ☒ *If yes, ensure that the WQMP evaluates each phase as a distinct DA, requiring LID BMPs to address runoff at time of completion.*					

2.2 Property Ownership/Management

Describe the ownership/management of all portions of the project and site. State whether any infrastructure will transfer to public agencies (City, County, Caltrans, etc.) after project completion. State if a homeowners or property owners association will be formed and be responsible for the long-term maintenance of project stormwater facilities. Describe any lot-level stormwater features that will be the responsibility of individual property owners.

Form 2.2-1 Property Ownership/Management

Describe property ownership/management responsible for long-term maintenance of WQMP stormwater facilities:

All proposed BMP's for the project site will be maintained by Wal-Mart Stores, Inc.

Maintenance of the WQMP facilities will be the responsibility of the property owner:

Wal-Mart Stores, Inc.
Mail Stop 0505 702 SW 8th Street, Bentonville, AR 72716
Phone: (479)-871-7573

The owner may choose to contract the appropriate employers for the maintenance of stormwater to whom will provide the proper equipment if the current general manager of the existing Wal-Mart Supercenter does not have the proper equipment and/or knowledge to do so. Any future property owner(s) will succeed Wal-Mart Stores, Inc., as the entity responsible for long term maintenance.

2.3 Potential Stormwater Pollutants

Best Management Practices (BMP) measures for pollutant generating activities and sources shall be designed consistent with recommendations from the CASQA Stormwater BMP Handbook for New Development and Redevelopment (or an equivalent manual). Pollutant generating activities must be considered when determining the overall pollutants of concern for the Project as presented in Form 2.3-1.

Determine and describe expected stormwater pollutants of concern based on land uses and site activities (refer to Table 3-2 in the TGD for WQMP).

Form 2.3-1 Pollutants of Concern

Pollutant	Please check: E=Expected, N=Not Expected		Additional Information and Comments
Pathogens (Bacterial / Virus)	E ☒	N ☐	Wild bird and pet waste, garbage
Nutrients - Phosphorous	E ☒	N ☐	Fertilizers, food waste, & garbage
Nutrients - Nitrogen	E ☒	N ☐	Fertilizer & waste
Noxious Aquatic Plants	E ☐	N ☒	The proposed development does not include any areas where water will be standing long enough to allow the growth of aquatic plants.
Sediment	E ☒	N ☐	Driveways, rooftops, sidewalks, paved areas, & landscape
Metals	E ☒	N ☐	Cars, trucks, & parking areas
Oil and Grease	E ☒	N ☐	Leaking vehicles, & other related fueling activities
Trash/Debris	E ☒	N ☐	Poorly managed trash containers & parking areas
Pesticides / Herbicides	E ☒	N ☐	Landscape areas
Organic Compounds	E ☒	N ☐	Cars & trucks
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	
Other:	E ☐	N ☐	

Section 3 Site and Watershed Description

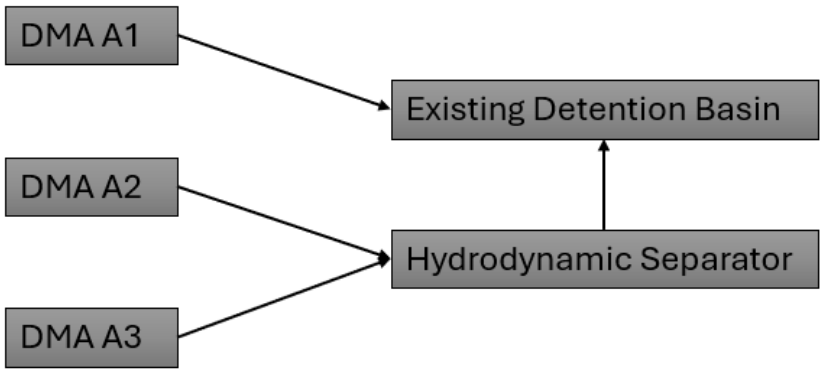
Describe the project site conditions that will facilitate the selection of BMPs through an analysis of the physical conditions and limitations of the site and its receiving waters. Identify distinct drainage areas (DA) that collect flow from a portion of the site and describe how runoff from each DA (and sub-watershed Drainage Management Areas (DMAs)) is conveyed to the site outlet(s). Refer to Section 3.2 in the TGD for WQMP. The form below is provided as an example. Then complete Forms 3.2 and 3.3 for each DA on the project site. ***If the project has more than one drainage area for stormwater management, then complete additional versions of these forms for each DA / outlet. A map presenting the DMAs must be included as an appendix to the WQMP document.***

Form 3-1 Site Location and Hydrologic Features

Site coordinates *take GPS measurement at approximate center of site*	Latitude 34.13398	Longitude -116.38341	Thomas Bros Map page

1 San Bernardino County climatic region: ☒ Desert

2 Does the site have more than one drainage area (DA): Yes☒ No☐ *If no, proceed to Form 3-2. If yes, then use this form to show a conceptual schematic describing DMAs and hydrologic feature connecting DMAs to the site outlet(s). An example is provided below that can be modified for proposed project or a drawing clearly showing DMA and flow routing may be attached*



Conveyance	Briefly describe on-site drainage features to convey runoff that is not retained within a DMA
DMA A1 to Existing Detention Basin	Proposed circulation and convenience store areas will have stormwater runoff sheet flow into nearby catch basins and is routed directly to the existing detention basin north of the project area.
DMA A2 to Existing Detention Basin	Proposed canopy area will have stormwater runoff sheet flow via valley gutters to an area drain and is routed through a hydrodynamic separator for pre-treatment prior to reaching the existing detention basin
DMA A3 to Existing Detention Basin	Proposed underground fuel storage will have stormwater runoff sheet flow via valley gutters to an area drain and is routed through a hydrodynamic separator for pre-treatment prior to reaching the existing detention basin

Form 3-2 Existing Hydrologic Characteristics for Drainage Area 1

For Drainage Area 1's sub-watershed DMA, provide the following characteristics	DMA A	DMA B	DMA C	DMA D
1 DMA drainage area (ft^2)	61,805			
2 Existing site impervious area (ft^2)	55,390			
3 Antecedent moisture condition *For desert areas, use* *http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_map.pdf*	II			
4 Hydrologic soil group *Refer to County Hydrology Manual Addendum for Arid Regions – http://www.sbcounty.gov/dpw/floodcontrol/pdf/20100412_addendum.pdf*	D			
5 Longest flowpath length (ft)	267			
6 Longest flowpath slope (ft/ft)	0.025			
7 Current land cover type(s) *Select from Fig C-3 of Hydrology Manual*	Commercial Landscaping, Commercial Paved Lot			
8 Pre-developed pervious area condition: *Based on the extent of wet season vegetated cover good >75%; Fair 50-75%; Poor <50%* ***Attach photos of site to support rating***	Good			

Form 3-3 Watershed Description for Drainage Area

Receiving waters Refer to SWRCB site: http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml	Yucca Creek
Applicable TMDLs *http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml*	N/A
303(d) listed impairments *http://www.waterboards.ca.gov/water_issues/programs/tmdl/integrated2010.shtml*	N/A
Environmentally Sensitive Areas (ESA) *Refer to Watershed Mapping Tool –* *http://sbcounty.permitrack.com/WAP*	N/A
Hydromodification Assessment	☒ Yes *Complete Hydromodification Assessment. Include Forms 4.2-2 through Form 4.2-5 and Hydromodification BMP Form 4.3-9 in submittal* The project is in a hydromodification zone, but there is no additional volume to account for. Therefore, forms 4.2-2 through form 4.2-5. ☐ No, project is within an HCOC exempt area

Section 4 Best Management Practices (BMP)

4.1 Source Control BMPs and Site Design BMP Measures

The information and data in this section are required for both Regulated Development and Site Design Only Projects. Source Control BMPs and Site Design BMP Measures are the basis of site-specific pollution management.

4.1.1 Source Control BMPs

Non-structural and structural source control BMP are required to be incorporated into all new development and significant redevelopment projects. Form 4.1-1 and 4.1-2 are used to describe specific source control BMPs used in the WQMP or to explain why a certain BMP is not applicable. Table 7-3 of the TGD for WQMP provides a list of applicable source control BMP for projects with specific types of potential pollutant sources or activities. The source control BMP in this table must be implemented for projects with these specific types of potential pollutant sources or activities.

The preparers of this WQMP have reviewed the source control BMP requirements for new development and significant redevelopment projects. The preparers have also reviewed the specific BMP required for project as specified in Forms 4.1-1 and 4.1-2. All applicable non-structural and structural source control BMP shall be implemented in the project.

The identified list of source control BMPs correspond to the CASQA Stormwater BMP Handbook for New Development and Redevelopment.

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N1	Education of Property Owners, Tenants and Occupants on Stormwater BMPs	☒	☐	The current owner/developer and future owners and their POA shall be familiar with the contents of this WQMP and County & City ordinances and brochures and furnish copies of these documents to all future property owners.
N2	Activity Restrictions	☒	☐	Property owners and their tenants or occupants shall not be allowed to discharge chemicals, chemical residues, wastewater or other prohibited discharges listed in the City Stormwater Ordinance, to the outside, paved areas of the site, or store chemicals or other pollutant sources in non-spill containers or covered facilities as stipulated in the CC&Rs.
N3	Landscape Management BMPs	☒	☐	The POA and their landscape maintenance contractor shall inspect the irrigation system, plant health, and erosion problems after each landscape procedure and shall report all repairs and problems to the POA.
N4	BMP Maintenance	☒	☐	The POA shall inspect for standing water in underground chamber systems, 48 hours after significant storm events. BMP maintenance shall be performed per the schedule in Form 5-1, as needed to restore free drainage and maintain all other Source Control BMPs.
N5	Title 22 CCR Compliance (How development will comply)	☒	☐	The POA will file appropriate hazardous material disclosures, if any storage is conducted, and must comply with all Title 22 CCR, Chapter 29 regulations.
N6	Local Water Quality Ordinances	☒	☐	The POA shall ensure that all maintenance activities at the site comply with the City Stormwater Ordinance, through the implementation of BMPs.
N7	Spill Contingency Plan	☒	☐	Building operators shall prepare specific plans based on materials on site for the cleanup of spills. Plans shall mandate stock piling of cleanup materials, notification of agencies, disposal, documentation, etc.
N8	Underground Storage Tank Compliance	☒	☒	Compliance to be maintained by property owners or future property owners, and/or their tenants
N9	Hazardous Materials Disclosure Compliance	☐	☒	The current owner and the future POA shall prohibit the storage of hazardous materials.

Form 4.1-1 Non-Structural Source Control BMPs

Form 4.1-1 Non-Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, if not applicable, state reason
		Included	Not Applicable	
N10	Uniform Fire Code Implementation	☒	☐	The current owners or future POA shall require all fire code requirements to be implemented at this project site.
N11	Litter/Debris Control Program	☒	☐	The property owners, POA and their contractor shall pick up litter and sweep and clean the existing trash enclosure weekly. The trash enclosures is designed to divert all flows around the dumpsters and shall be roofed. The HOA shall contract with a refuse company to have the dumpsters emptied on a weekly basis, at a minimum.
N12	Employee Training	☒	☐	The POA shall require all maintenance contractors to train their employees in stormwater BMP implementation.
N13	Housekeeping of Loading Docks	☒	☒	There are no dock areas
N14	Catch Basin Inspection Program	☒	☐	The on-site catch basins shall be inspected monthly during the rainy season (October-May) and before and after each storm to ensure proper operation. The HOA shall contract with a qualified landscape contractor to inspect and clean out accumulation of trash, litter, and sediment and check for evidence of illegal dumping of waste materials into on-site storm drains.
N15	Vacuum Sweeping of Private Streets and Parking Lots	☒	☐	The paved areas and common open areas of the project site shall be swept and cleaned weekly by the POA's contractor.
N16	Other Non-structural Measures for Public Agency Projects	☐	☒	This development is not a part of a Public Agency Project.
N17	Comply with all other applicable NPDES permits	☒	☐	The developer of this site shall comply with all BMP implementation requirements of the City for stormwater discharge during construction of this project and shall file for a permit coverage under the Statewide General Construction Stormwater Permit, prior to beginning construction/grading activities at this site. Following occupancy, owners, tenants, and POA shall comply with SB County MS4 Permit requirements, enforced by the City.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, If not applicable, state reason
		Included	Not Applicable	
S1	Provide storm drain system stencilling and signage (CASQA New Development BMP Handbook SD-13)	☒	☐	A painted message "No Dumping-Drains to River" shall be placed on each catch basin by the developer. The message shall be inspected annually & repainted as necessary by the POA.
S2	Design and construct outdoor material storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-34)	☐	☒	This development does not include the storage of materials outdoors.
S3	Design and construct trash and waste storage areas to reduce pollution introduction (CASQA New Development BMP Handbook SD-32)	☒	☐	Stormwater flows are diverted away from the trash enclosure. All dumpsters shall have working lids which shall be kept closed at all times. Trash enclosures shall comply with CASQA SD-32 and shall have doors and a solid roof.
S4	Use efficient irrigation systems & landscape design, water conservation, smart controllers, and source control (Statewide Model Landscape Ordinance; CASQA New Development BMP Handbook SD-12)	☒	☐	The irrigation system will include devices to prevent low head drainage, overspray, and run off through the use of pressure regulating devices, check valves, rain shutoff valves, flow sensors, pressure drop sensors, proper spacing, low precipitation emissions devices and ET or weather-based controllers. Landscape and irrigation shall be consistent with the State Model Water Efficient Landscape Ordinance and the City landscape development standards. Plants installed will be arranged according to similar hydrozones and meet the required water budget for the site. Shade trees shall be used to intercept rainwater and reduce heat gain on paving.
S5	Finish grade of landscaped areas at a minimum of 1-2 inches below top of curb, sidewalk, or pavement	☒	☐	All landscaped areas shall comply with depressed grading requirements by finish grading to a minimum of 1" below pavement grades or top of curb.
S6	Protect slopes and channels and provide energy dissipation (CASQA New Development BMP Handbook SD-10)	☒	☐	All slopes shall be hard lined, rip-rapped or vegetated to provide erosion protection and prevent sediment transport.
S7	Covered dock areas (CASQA New Development BMP Handbook SD-31)	☐	☒	There are no loading docks
S8	Covered maintenance bays with spill containment plans (CASQA New Development BMP Handbook SD-31)	☐	☒	Maintenance bays are not proposed as a part of this development, and no maintenance activities will be allowed on site.
S9	Vehicle wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	Vehicle wash areas are not provided as part of this development and outdoor vehicle/equipment washing shall be prohibited by the owners and their POA..

S10	Covered outdoor processing areas (CASQA New Development BMP Handbook SD-36)	☐	☒	Outdoor processing is not associated with the proposed development.

Form 4.1-2 Structural Source Control BMPs

Identifier	Name	Check One		Describe BMP Implementation OR, If not applicable, state reason
		Included	Not Applicable	
S11	Equipment wash areas with spill containment plans (CASQA New Development BMP Handbook SD-33)	☐	☒	Outdoor equipment is not associated with the proposed development.
S12	Fueling areas (CASQA New Development BMP Handbook SD-30)	☐	☒	Fueling areas are not included as part of the proposed development.
S13	Hillside landscaping (CASQA New Development BMP Handbook SD-10)	☐	☒	No hillsides will require re-vegetation as part of the proposed development.
S14	Wash water control for food preparation areas	☐	☒	The proposed development does not include food preparation areas.
S15	Community car wash racks (CASQA New Development BMP Handbook SD-33)	☐	☒	The proposed development does not include community car wash areas.

4.1.2 Site Design BMPs

As part of the planning phase of a project, the site design practices associated with new LID requirements in the Phase II Small MS4 Permit must be considered. Site design BMP measures can result in smaller Design Capture Volume (DCV) to be managed by both LID and hydromodification control BMPs by reducing runoff generation.

As is stated in the Permit, it is necessary to evaluate site conditions such as soil type(s), existing vegetation and flow paths will influence the overall site design.

Describe site design and drainage plan including:

- A narrative of site design practices utilized or rationale for not using practices
- A narrative of how site plan incorporates preventive site design practices
- Include an attached Site Plan layout which shows how preventative site design practices are included in WQMP

Refer to Section 5.2 of the TGD for WQMP for more details.

Form 4.1-3 Site Design Practices Checklist

Site Design Practices *If yes, explain how preventative site design practice is addressed in project site plan. If no, other LID BMPs must be selected to meet targets*
Minimize impervious areas: Yes ☒ No ☐ Explanation: The proposed conditions will provide more pervious than the existing conditions, with additional landscaping
Maximize natural infiltration capacity; Including improvement and maintenance of soil: Yes ☒ No ☐ Explanation: Additional pervious is proposed and storm water from impervious surfaces will enter the existing detention basin
Preserve existing drainage patterns and time of concentration: Yes ☒ No ☐ Explanation: The flow of the existing conditions were maintained to be flowing from south to north
Disconnect impervious areas. Including rerouting of rooftop drainage pipes to drain stormwater to storage or infiltration BMPs instead of to storm drain : Yes ☒ No ☐ Explanation: Rooftop drains for the canopy and fuel store are routed to the existing detention basin
Use of Porous Pavement.: Yes ☐ No ☒ Explanation: This project does not proposed pervious pavement
Protect existing vegetation and sensitive areas: Yes ☒ No ☐ Explanation: Existing vegetation will be preserved or replaced if found to be inadequate
Re-vegetate disturbed areas. Including planting and preservation of drought tolerant vegetation. : Yes ☐ No ☐ Explanation: If applicable, appropiate plant types will be used to re-vegetate
Minimize unnecessary compaction in stormwater retention/infiltration basin/trench areas: Yes ☒ No ☐ Explanation: Exisitng detention basin is fenced off

Utilize naturalized/rock-lined drainage swales in place of underground piping or imperviously lined swales: Yes ☐ No ☒ Explanation: Vegetated drainage swales are not feasible for the proposed development due to the development being primiary a paved parking lot
Stake off areas that will be used for landscaping to minimize compaction during construction : Yes ☒ No ☐ Explanation: Landscaping areas will be staked off after rough grading has been completed to prevent excessive compaction
Use of Rain Barrels and Cisterns, Including the use of on-site water collection systems.: Yes ☐ No ☒ Explanation: N/A
Stream Setbacks. Includes a specified distance from an adjacent steam: : Yes ☐ No ☒ Explanation: N/A

It is noted that, in the Phase II Small MS4 Permit, site design elements for green roofs and vegetative swales are required. Due to the local climatology in the Mojave River Watershed, proactive measures are taken to maximize the amount of drought tolerant vegetation. It is not practical in this region to have green roofs or vegetative swales. As part of site design the project proponent should utilize locally recommended vegetation types for landscaping. Typical landscaping recommendations are found in following local references:

San Bernardino County Special Districts:

Guide to High Desert Landscaping -
http://www.specialdistricts.org/Modules/ShowDocument.aspx?documentid=795

Recommended High-Desert Plants -
http://www.specialdistricts.org/modules/showdocument.aspx?documentid=553

Mojave Water Agency:

Desert Ranch: http://www.mojavewater.org/files/desertranchgardenprototype.pdf

Summertree: http://www.mojavewater.org/files/Summertree-Native-Plant-Brochure.pdf

Thornless Garden: http://www.mojavewater.org/files/thornlessgardenprototype.pdf

Mediterranean Garden: http://www.mojavewater.org/files/mediterraneangardenprototype.pdf

Lush and Efficient Garden: http://www.mojavewater.org/files/lushandefficientgardenprototype.pdf

Alliance for Water Awareness and Conservation (AWAC) outdoor tips – http://hdawac.org/save-outdoors.html

4.2 Treatment BMPs

After implementation and design of both Source Control BMPs and Site Design BMP measures, any remaining runoff from impervious DMAs must be directed to one or more on-site, treatment BMPs (LID or biotreatment) designed to infiltrate, evaportranspire, and/or bioretain the amount of runoff specified in Permit Section E.12.e (ii)(c) Numeric Sizing Criteria for Storm Water Retention and Treatment.

4.2.1 Project Specific Hydrology Characterization

The purpose of this section of the Project WQMP is to establish targets for post-development hydrology based on performance criteria specified in Section E.12.e.ii.c and Section E.12.f of the Phase II Small MS4 Permit. These targets include runoff volume for water quality control (referred to as LID design capture volume), and runoff volume, time of concentration, and peak runoff for protection from hydromodification.

If the project has more than one outlet for stormwater runoff, then complete additional versions of these forms for each DA / outlet.

It is noted that in the Phase II Small MS4 Permit jurisdictions, the LID BMP Design Capture Volume criteria is based on the 2-year rain event. The hydromodification performance criterion is based on the 10-year rain event.

Methods applied in the following forms include:

- For LID BMP Design Capture Volume (DCV), San Bernardino County requires use of the P_6 method (Form 4.2-1) For pre- and post-development hydrologic calculation, San Bernardino County requires the use of the Rational Method (San Bernardino County Hydrology Manual Section D). Forms 4.2-2 through Form 4.2-5 calculate hydrologic variables including runoff volume, time of concentration, and peak runoff from the project site pre- and post-development using the Hydrology Manual Rational Method approach. For projects greater than 640 acres (1.0 mi^2), the Rational Method and these forms should not be used. For such projects, the Unit Hydrograph Method (San Bernardino County Hydrology Manual Section E) shall be applied for hydrologic calculations for hydromodification performance criteria.

Refer to Section 4 in the TGD for WQMP for detailed guidance and instructions.

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume (DA 1)		
[1] Project area DA 1 (ft^2): 61,805	[2] Imperviousness after applying preventative site design practices (Imp%): 79%	[3] Runoff Coefficient (Rc): _0.587 *$R_c = 0.858(Imp\%)^{\wedge 3} - 0.78(Imp\%)^{\wedge 2} + 0.774(Imp\%) + 0.04$*
[4] Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.428 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html		
[5] Compute P_6, Mean 6-hr Precipitation (inches): 0.529 *P_6 = Item 4 *C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Desert = 1.2371)*		
[6] Drawdown Rate *Use 48 hours as the default condition. Selection and use of the 24 hour drawdown time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.*		24-hrs ☐ 48-hrs ☒
[7] Compute design capture volume, DCV (ft^3): 3,140 ** *DCV = 1/12 * [Item 1* Item 3 *Item 5 * C_2], where C_2 is a function of drawdown rate (24-hr = 1.582; 48-hr = 1.963)* *Compute separate DCV for each outlet from the project site per schematic drawn in Form 3-1 Item 2*		

**The proposed area's impact to the northern basin decreases the design capture volume from existing. 3,140 cubic feet can be compared to the existing areas impact of 3,879 cubic feet, meaning there was a decrease to the overall site's DCV of 739 cubic feet. See appendix for full DCV calculations for the existing area being disturbed.

Form 4.2-2 Summary of Hydromodification Assessment (DA 1)

Is the change in post- and pre- condition flows captured on-site? : Yes ☐ No ☒

If "Yes", then complete Hydromodification assessment of site hydrology for 10yr storm event using Forms 4.2-3 through 4.2-5 and insert results below *(Forms 4.2-3 through 4.2-5 may be replaced by computer software analysis based on the San Bernardino County Hydrology Manual- Addendum 1)*

If "No," then proceed to Section 4.3 BMP Selection and Sizing

Condition	Runoff Volume (ft^3)	Time of Concentration (min)	Peak Runoff (cfs)
Pre-developed	**1** *Form 4.2-3 Item 12*	**2** *Form 4.2-4 Item 13*	**3** *Form 4.2-5 Item 10*
Post-developed	**4** *Form 4.2-3 Item 13*	**5** *Form 4.2-4 Item 14*	**6** *Form 4.2-5 Item 14*
Difference	**7** *Item 4 – Item 1*	**8** *Item 2 – Item 5*	**9** *Item 6 – Item 3*

Difference (as % of pre-developed)	**10** % *Item 7 / Item 1*	**11** % *Item 8 / Item 2*	**12** % *Item 9 / Item 3*

Form 4.2-3 Hydromodification Assessment for Runoff Volume (DA 1)

Weighted Curve Number Determination for: Pre-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1a Land Cover type								
2a Hydrologic Soil Group (HSG)								
3a DMA Area, ft² *sum of areas of DMA should equal area of DA*								
4a Curve Number (CN) *use Items 1 and 2 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*								
Weighted Curve Number Determination for: Post-developed DA	DMA A	DMA B	DMA C	DMA D	DMA E	DMA F	DMA G	DMA H
1b Land Cover type								
2b Hydrologic Soil Group (HSG)								
3b DMA Area, ft² *sum of areas of DMA should equal area of DA*								
4b Curve Number (CN) *use Items 5 and 6 to select the appropriate CN from Appendix C-2 of the TGD for WQMP*								

5 Pre-Developed area-weighted CN:	**7** Pre-developed soil storage capacity, S (in): *S = (1000 / Item 5) - 10*	**9** Initial abstraction, I_a (in): *I_a = 0.2 * Item 7*
6 Post-Developed area-weighted CN:	**8** Post-developed soil storage capacity, S (in): *S = (1000 / Item 6) - 10*	**10** Initial abstraction, I_a (in): *I_a = 0.2 * Item 8*

11 Precipitation for 10 yr, 24 hr storm (in):
Go to: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

12 Pre-developed Volume (ft³):
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 9)^2 / ((Item 11 – Item 9 + Item 7)*

13 Post-developed Volume (ft³):
*V_{pre} =(1 / 12) * (Item sum of Item 3) * [(Item 11 – Item 10)^2 / ((Item 11 – Item 10 + Item 8)*

14 Volume Reduction needed to meet hydromodification requirement, (ft³):
*Vhydro = (Item 13 * 0.95) – Item 12*

Form 4.2-4 Hydromodification Assessment for Time of Concentration (DA 1)

Compute time of concentration for pre and post developed conditions for each DA *(For projects using the Hydrology Manual complete the form below)*

Variables	Pre-developed DA1 *Use additional forms if there are more than 4 DMA*				Post-developed DA1 *Use additional forms if there are more than 4 DMA*			
	DMA A	DMA B	DMA C	DMA D	DMA A	DMA B	DMA C	DMA D
1 Length of flowpath (ft) *Use Form 3-2 Item 5 for pre-developed condition*								
2 Change in elevation (ft)								
3 Slope (ft/ft), S_o = *Item 2 / Item 1*								
4 Land cover								
5 Initial DMA Time of Concentration (min) *Appendix C-1 of the TGD for WQMP*								
6 Length of conveyance from DMA outlet to project site outlet (ft) *May be zero if DMA outlet is at project site outlet*								
7 Cross-sectional area of channel (ft^2)								
8 Wetted perimeter of channel (ft)								
9 Manning's roughness of channel (n)								
10 Channel flow velocity (ft/sec) V_{fps} = *(1.49 / Item 9) * (Item 7/Item 8)^0.67 * (Item 3)^0.5*								
11 Travel time to outlet (min) T_t = *Item 6 / (Item 10 * 60)*								
12 Total time of concentration (min) T_c = *Item 5 + Item 11*								
13 Pre-developed time of concentration (min): *Minimum of Item 12 pre-developed DMA*								
14 Post-developed time of concentration (min): *Minimum of Item 12 post-developed DMA*								
15 Additional time of concentration needed to meet hydromodification requirement (min): $T_{C\text{-}Hydro}$ = *(Item 13 * 0.95) – Item 14*								

Form 4.2-5 Hydromodification Assessment for Peak Runoff (DA 1)

Compute peak runoff for pre- and post-developed conditions

Variables		Pre-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*			Post-developed DA to Project Outlet (*Use additional forms if more than 3 DMA)*		
		DMA A	DMA B	DMA C	DMA A	DMA B	DMA C
1 Rainfall Intensity for storm duration equal to time of concentration *I_{peak} = 10^(LOG Form 4.2-1 Item 4 - 0.7 LOG Form 4.2-4 Item 5 /60)*							
2 Drainage Area of each DMA (Acres) *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*							
3 Ratio of pervious area to total area *For DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*							
4 Pervious area infiltration rate (in/hr) *Use pervious area CN and antecedent moisture condition with Appendix C-3 of the TGD for WQMP*							
5 Maximum loss rate (in/hr) *F_m = Item 3 * Item 4* *Use area-weighted F_m from DMA with outlet at project site outlet, include upstream DMA (Using example schematic in Form 3-1, DMA A will include drainage from DMA C)*							
6 Peak Flow from DMA (cfs) *Q_p =Item 2 * 0.9 * (Item 1 - Item 5)*							
7 Time of concentration adjustment factor for other DMA to site discharge point *Form 4.2-4 Item 12 DMA / Other DMA upstream of site discharge point (If ratio is greater than 1.0, then use maximum value of 1.0)*	DMA A	*n/a*			*n/a*		
	DMA B		*n/a*			*n/a*	
	DMA C			*n/a*			*n/a*

8 Pre-developed Q_p at T_c for DMA A: *Q_p = Item 6_{DMAA} + [Item 6_{DMAB} * (Item 1_{DMAA} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAA/2}$] + [Item 6_{DMAC} * (Item 1_{DMAA} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAA/3}$]*	**9** Pre-developed Q_p at T_c for DMA B: *Q_p = Item 6_{DMAB} + [Item 6_{DMAA} * (Item 1_{DMAB} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAB/1}$] + [Item 6_{DMAC} * (Item 1_{DMAB} - Item 5_{DMAC})/(Item 1_{DMAC} - Item 5_{DMAC})* Item $7_{DMAB/3}$]*	**10** Pre-developed Q_p at T_c for DMA C: *Q_p = Item 6_{DMAC} + [Item 6_{DMAA} * (Item 1_{DMAC} - Item 5_{DMAA})/(Item 1_{DMAA} - Item 5_{DMAA})* Item $7_{DMAC/1}$] + [Item 6_{DMAB} * (Item 1_{DMAC} - Item 5_{DMAB})/(Item 1_{DMAB} - Item 5_{DMAB})* Item $7_{DMAC/2}$]*
10 Peak runoff from pre-developed condition confluence analysis (cfs):	*Maximum of Item 8, 9, and 10 (including additional forms as needed)*	
11 Post-developed Q_p at T_c for DMA A: *Same as Item 8 for post-developed values*	**12** Post-developed Q_p at T_c for DMA B: *Same as Item 9 for post-developed values*	**13** Post-developed Q_p at T_c for DMA C: *Same as Item 10 for post-developed values*
14 Peak runoff from post-developed condition confluence analysis (cfs):	*Maximum of Item 11, 12, and 13 (including additional forms as needed)*	
15 Peak runoff reduction needed to meet Hydromodification Requirement (cfs):	*$Q_{p\text{-}hydro}$ = (Item 14 * 0.95) – Item 10*	

4.3 BMP Selection and Sizing

Complete the following forms for each project site DA to document that the proposed treatment (LID/Bioretention) BMPs conform to the project DCV developed to meet performance criteria specified in the Phase II Small MS4 Permit (WQMP Template Section 4.2). For the LID DCV, the forms are ordered according to hierarchy of BMP selection as required by the Phase II Small MS4 Permit (see Section 5.3 in the TGD for WQMP). The forms compute the following for on-site LID BMP:

- Site Design Measures (Form 4.3-2)
- Retention and Infiltration BMPs (Form 4.3-3) or
- Biotreatment BMPs (Form 4.3-4).

At the end of each form, additional fields facilitate the determination of the extent of mitigation provided by the specific BMP category, allowing for use of the next category of BMP in the hierarchy, if necessary.

The first step in the analysis, using Section 5.3.2 of the TGD for WQMP, is to complete Forms 4.3-1 and 4.3-3) to determine if retention and infiltration BMPs are infeasible for the project. For each feasibility criterion in Form 4.3-1, if the answer is "Yes," provide all study findings that includes relevant calculations, maps, data sources, etc. used to make the determination of infeasibility.

Next, complete Form 4.3-2 to determine the feasibility of applicable Site Design BMPs, and, if their implementation is feasible, the extent of mitigation of the DCV.

If no site constraints exist that would limit the type of BMP to be implemented in a DA, evaluate the use of combinations of LID BMPs, including all applicable Site Design BMPs to maximize on-site retention of the DCV. If no combination of BMP can mitigate the entire DCV, implement the single BMP type, or combination of BMP types, that maximizes on-site retention of the DCV within the minimum effective area.

If the combination of site design, retention and/or infiltration BMPs is unable to mitigate the entire DCV, then the remainder of the volume-based performance criteria that cannot be achieved with site design, retention and/or infiltration BMPs must be managed through biotreatment BMPs. If biotreatment BMPs are used, then they must be sized to provide equivalent effectiveness based on Template Section 4.3.4.

4.3.1 Exceptions to Requirements for Bioretention Facilities

Contingent on a demonstration that use of bioretention or a facility of equivalent effectiveness is infeasible, other types of biotreatment or media filters (such as tree-box-type biofilters or in-vault media filters) may be used for the following categories of Regulated Projects:

1) Projects creating or replacing an acre or less of impervious area, and located in a designated pedestrian-oriented commercial district (i.e., smart growth projects), and having at least 85% of the entire project site covered by permanent structures;

2) Facilities receiving runoff solely from existing (pre-project) impervious areas; and

3) Historic sites, structures or landscapes that cannot alter their original configuration in order to maintain their historic integrity.

Form 4.3-1 Infiltration BMP Feasibility (DA 1)
Feasibility Criterion – Complete evaluation for each DA on the Project Site
[1] Would infiltration BMP pose significant risk for groundwater related concerns? Yes ☐ No ☒ *Refer to Section 5.3.2.1 of the TGD for WQMP*
If Yes, Provide basis: (attach)
[2] Would installation of infiltration BMP significantly increase the risk of geotechnical hazards? Yes ☐ No ☒ (Yes, if the answer to any of the following questions is yes, as established by a geotechnical expert): • The location is less than 50 feet away from slopes steeper than 15 percent • The location is less than ten feet from building foundations or an alternative setback. • A study certified by a geotechnical professional or an available watershed study determines that stormwater infiltration would result in significantly increased risks of geotechnical hazards.
If Yes, Provide basis: (attach)
[3] Would infiltration of runoff on a Project site violate downstream water rights? Yes ☐ No ☒
If Yes, Provide basis: (attach)
[4] Is proposed infiltration facility located on hydrologic soil group (HSG) D soils or does the site geotechnical investigation indicate presence of soil characteristics, which support categorization as D soils? Yes ☐ No ☒
If Yes, Provide basis: (attach)
[5] Is the design infiltration rate, after accounting for safety factor of 2.0, below proposed facility less than 0.3 in/hr (accounting for soil amendments)? Yes ☐ No ☒
If Yes, Provide basis: (attach)
[6] Would on-site infiltration or reduction of runoff over pre-developed conditions be partially or fully inconsistent with watershed management strategies as defined in the WAP, or impair beneficial uses? Yes ☐ No ☒ *See Section 3.5 of the TGD for WQMP and WAP*
If Yes, Provide basis: (attach)
[7] Any answer from Item 1 through Item 3 is "Yes": Yes ☐ No ☒ *If yes, infiltration of any volume is not feasible onsite. Proceed to Form 4.3-4, Selection and Evaluation of Biotreatment BMP.* *If no, then proceed to Item 8 below.* [8] Any answer from Item 4 through Item 6 is "Yes": Yes ☐ No ☒ *If yes, infiltration is permissible but is not required to be considered. Proceed to Form 4.3-2, Site Design BMP.* *If no, then proceed to Item 9, below.* [9] All answers to Item 1 through Item 6 are "No": *Infiltration of the full DCV is potentially feasible, LID infiltration BMP must be designed to infiltrate the full DCV to the MEP.* *Proceed to Form 4.3-2, Site Design BMPs.*

4.3.2 Site Design BMP

Section E.12.e. of the Small Phase II MS4 Permit emphasizes the use of LID preventative measures; and the use of Site Design Measures reduces the portion of the DCV that must be addressed in downstream BMPs. Therefore, all applicable Site Design Measures shall be provided except where they are mutually exclusive with each other, or with other BMPs. Mutual exclusivity may result from overlapping BMP footprints such that

either would be potentially feasible by itself, but both could not be implemented. Please note that while there are no numeric standards regarding the use of Site Design BMPs. If a project cannot feasibly meet BMP sizing requirements or cannot fully address hydromodification, feasibility of all applicable Site Design BMPs must be part of demonstrating that the BMP system has been designed to retain the maximum feasible portion of the DCV. Complete Form 4.3-2 to identify and calculate estimated retention volume from implementing site design BMP. Refer to Section 5.4 in the TGD for more detailed guidance.

Form 4.3-2 Site Design BMPs (DA 1)

1 Implementation of Impervious Area Dispersion BMP (i.e. routing runoff from impervious to pervious areas), excluding impervious areas planned for routing to on-lot infiltration BMP: Yes ☐ No ☒ *If yes, complete Items 2-5; If no, proceed to Item 6*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Total impervious area draining to pervious area (ft^2)			
3 Ratio of pervious area receiving runoff to impervious area			
4 Retention volume achieved from impervious area dispersion (ft^3) *V = Item2 * Item 3 * (0.5/12), assuming retention of 0.5 inches of runoff*			
5 Sum of retention volume achieved from impervious area dispersion (ft^3):	$V_{retention}$ *=Sum of Item 4 for all BMPs*		
6 Implementation of Localized On-lot Infiltration BMPs (e.g. on-lot rain gardens): Yes ☐ No ☒ *If yes, complete Items 7-13 for aggregate of all on-lot infiltration BMP in each DA; If no, proceed to Item 14*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
7 Ponding surface area (ft^2)			
8 Ponding depth (ft) (min. 0.5 ft.)			
9 Surface area of amended soil/gravel (ft^2)			
10 Average depth of amended soil/gravel (ft) (min. 1 ft.)			
11 Average porosity of amended soil/gravel			
12 Retention volume achieved from on-lot infiltration (ft^3) $V_{retention}$ *= (Item 7 *Item 8) + (Item 9 * Item 10 * Item 11)*			
13 Runoff volume retention from on-lot infiltration (ft^3):	$V_{retention}$ *=Sum of Item 12 for all BMPs*		

Form 4.3-2 Site Design BMPs (DA 1)

Form 4.3-2 cont. Site Design BMPs (DA 1)

14 Implementation of Street Trees: Yes ☐ No ☒ *If yes, complete Items 14-18. If no, proceed to Item 19*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
15 Number of Street Trees			
16 Average canopy cover over impervious area (ft^2)			
17 Runoff volume retention from street trees (ft^3) $V_{retention}$ *= Item 15 * Item 16 * (0.05/12) assume runoff retention of 0.05 inches*			
18 Runoff volume retention from street tree BMPs (ft^3):	$V_{retention}$ *= Sum of Item 17 for all BMPs*		
19 Total Retention Volume from Site Design BMPs:	*Sum of Items 5, 13 and 18*		

4.3.3 Infiltration BMPs

Use Form 4.3-3 to compute on-site retention of runoff from proposed retention and infiltration BMPs. Volume retention estimates are sensitive to the percolation rate used, which determines the amount of runoff that can be infiltrated within the specified drawdown time. The infiltration safety factor reduces field measured percolation to account for potential inaccuracy associated with field measurements, declining BMP performance over time, and compaction during construction. Appendix C of the TGD for WQMP provides guidance on estimating an appropriate safety factor to use in Form 4.3-3.

If site constraints limit the use of BMPs to a single type and implementation of retention and infiltration BMPs mitigate no more than 40% of the DCV, then they are considered infeasible and the Project Proponent may evaluate the effectiveness of BMPs lower in the LID hierarchy of use (Section 5.5 of the TGD for WQMP)

If implementation of infiltrations BMPs is feasible as determined using Form 4.3-1, then LID infiltration BMPs shall be implemented to the MEP (section 4.1 of the TGD for WQMP).

4.3.3.1 Allowed Variations for Special Site Conditions

The bioretention system design parameters of this Section may be adjusted for the following special site conditions:

1) Facilities located within 10 feet of structures or other potential geotechnical hazards established by the geotechnical expert for the project may incorporate an impervious cutoff wall between the bioretention facility and the structure or other geotechnical hazard.

2) Facilities with documented high concentrations of pollutants in underlying soil or groundwater, facilities located where infiltration could contribute to a geotechnical hazard, and facilities located on elevated plazas or other structures may incorporate an impervious liner and may locate the underdrain discharge at the bottom of the subsurface drainage/storage layer (this configuration is commonly known as a “flow-through planter”).

3) Facilities located in areas of high groundwater, highly infiltrative soils or where connection of underdrain to a surface drain or to a subsurface storm drain are infeasible, may omit the underdrain.

4) Facilities serving high-risk areas such as fueling stations, truck stops, auto repairs, and heavy industrial sites may be required to provide adequate pretreatment to address pollutants of concern unless these high-risk areas are isolated from storm water runoff or bioretention areas with no chance of spill migration.

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Form 4.3-3 Infiltration LID BMP - including underground BMPs (DA 1)

1 Remaining LID DCV not met by site design BMP (ft^3): *V_{unmet} = Form 4.2-1 Item 7 - Form 4.3-2 Item19*			
BMP Type *Use columns to the right to compute runoff volume retention from proposed infiltration BMP (select BMP from Table 5-4 in TGD for WQMP) - Use additional forms for more BMPs*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
2 Infiltration rate of underlying soils (in/hr) *See Section 5.4.2 and Appendix C of the TGD for WQMP for minimum requirements for assessment methods*			
3 Infiltration safety factor *See TGD Section 5.4.2 and Appendix D*			
4 Design percolation rate (in/hr) *P_{design} = Item 2 / Item 3*			
5 Ponded water drawdown time (hr) *Copy Item 6 in Form 4.2-1*			
6 Maximum ponding depth (ft) *BMP specific, see Table 5-4 of the TGD for WQMP for BMP design details*			
7 Ponding Depth (ft) *d_{BMP} = Minimum of (1/12*Item 4*Item 5) or Item 6*			
8 Infiltrating surface area, SA_{BMP} (ft^2) *the lesser of the area needed for infiltration of full DCV or minimum space requirements from Table 5.7 of the TGD for WQMP*			
9 Amended soil depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 in the TGD for WQMP for reference to BMP design details*			
10 Amended soil porosity			
11 Gravel depth, d_{media} (ft) *Only included in certain BMP types, see Table 5-4 of the TGD for WQMP for BMP design details*			
12 Gravel porosity			
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*			
14 Above Ground Retention Volume (ft^3) *$V_{retention}$ = Item 8 * [Item7 + (Item 9 * Item 10) + (Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
15 Underground Retention Volume (ft^3) *Volume determined using manufacturer's specifications and calculations*			
16 Total Retention Volume from LID Infiltration BMPs: *(Sum of Items 14 and 15 for all infiltration BMP included in plan)*			
17 Fraction of DCV achieved with infiltration BMP: % *Retention% = Item 16 / Form 4.2-1 Item 7*			
18 Is full LID DCV retained onsite with combination of hydrologic source control and LID retention/infiltration BMPs? Yes ☐ No ☐ *If yes, demonstrate conformance using Form 4.3-10; If no, then reduce Item 3, Factor of Safety to 2.0 and increase Item 8, Infiltrating Surface Area, such that the portion of the site area used for retention and infiltration BMPs equals or exceeds the minimum effective area thresholds (Table 5-7 of the TGD for WQMP) for the applicable category of development and repeat all above calculations.*			

4.3.4 Biotreatment BMP

Biotreatment BMPs may be considered if the full LID DCV cannot be met by maximizing retention and infiltration. A key consideration when using biotreatment BMP is the effectiveness of the proposed BMP in addressing the pollutants of concern for the project (see Table 5-5 of the TGD for WQMP).

Use Form 4.3-4 to summarize the potential for volume based and/or flow based biotreatment options to biotreat the remaining unmet LID DCV. Biotreatment computations are included as follows:

- Use Form 4.3-5 to compute biotreatment in small volume based biotreatment BMP (e.g. bioretention w/underdrains);
- Use Form 4.3-6 to compute biotreatment in large volume based biotreatment BMP (e.g. constructed wetlands);
- Use Form 4.3-7 to compute sizing criteria for flow-based biotreatment BMP (e.g. bioswales)

Form 4.3-4 Selection and Evaluation of Biotreatment BMP (DA 1)

1 Remaining LID DCV not met by site design , or infiltration, BMP for potential biotreatment (ft^3): *Form 4.2-1 Item 7 - Form 4.3-2 Item 19 – Form 4.3-3 Item 16*	List pollutants of concern *Copy from Form 2.3-1.*	
2 Biotreatment BMP Selected *(Select biotreatment BMP(s) necessary to ensure all pollutants of concern are addressed through Unit Operations and Processes, described in Table 5-5 of the TGD for WQMP)*	Volume-based biotreatment *Use Forms 4.3-5 and 4.3-6 to compute treated volume*	Flow-based biotreatment *Use Form 4.3-7 to compute treated flow*
	☐ Bioretention with underdrain ☐ Planter box with underdrain ☐ Constructed wetlands ☐ Wet extended detention ☐ Dry extended detention	☐ Vegetated swale ☐ Vegetated filter strip ☐ Proprietary biotreatment
3 Volume biotreated in volume based biotreatment BMP (ft^3): *Form 4.3-5 Item 15 + Form 4.3-6 Item 13*	**4** Compute remaining LID DCV with implementation of volume based biotreatment BMP (ft^3): *Item 1 – Item 3*	**5** Remaining fraction of LID DCV for sizing flow based biotreatment BMP: % *Item 4 / Item 1*
6 Flow-based biotreatment BMP capacity provided (cfs): *Use Figure 5-2 of the TGD for WQMP to determine flow capacity required to provide biotreatment of remaining percentage of unmet LID DCV (Item 5), for the project's precipitation zone (Form 3-1 Item 1)*		
7 Metrics for MEP determination: • Provided a WQMP with the portion of site area used for suite of LID BMP equal to minimum thresholds in Table 5-7 of the TGD for WQMP for the proposed category of development: ☐ *If maximized on-site retention BMPs is feasible for partial capture, then LID BMP implementation must be optimized to retain and infiltrate the maximum portion of the DCV possible within the prescribed minimum effective area. The remaining portion of the DCV shall then be mitigated using biotreatment BMP.*		

Form 4.3-5 Volume Based Biotreatment (DA 1) – Bioretention and Planter Boxes with Underdrains

Biotreatment BMP Type *(Bioretention w/underdrain, planter box w/underdrain, other comparable BMP)*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*			
2 Amended soil infiltration rate *Typical ~ 5.0*			
3 Amended soil infiltration safety factor *Typical ~ 2.0*			
4 Amended soil design percolation rate (in/hr) P_{design} *= Item 2 / Item 3*			
5 Ponded water drawdown time (hr) *Copy Item 6 from Form 4.2-1*			
6 Maximum ponding depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
7 Ponding Depth (ft) d_{BMP} *= Minimum of (1/12 * Item 4 * Item 5) or Item 6*			
8 Amended soil surface area (ft^2)			
9 Amended soil depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
10 Amended soil porosity, *n*			
11 Gravel depth (ft) *see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
12 Gravel porosity, *n*			
13 Duration of storm as basin is filling (hrs) *Typical ~ 3hrs*			
14 Biotreated Volume (ft^3) $V_{biotreated}$ *= Item 8 * [(Item 7/2) + (Item 9 * Item 10) +(Item 11 * Item 12) + (Item 13 * (Item 4 / 12))]*			
15 Total biotreated volume from bioretention and/or planter box with underdrains BMP: *Sum of Item 14 for all volume-based BMPs included in this form*			

Form 4.3-6 Volume Based Biotreatment (DA 1) – Constructed Wetlands and Extended Detention

Biotreatment BMP Type *Constructed wetlands, extended wet detention, extended dry detention, or other comparable proprietary BMP. If BMP includes multiple modules (E.g. forebay and main basin), provide separate estimates for storage and pollutants treated in each module.*	DA DMA BMP Type		DA DMA BMP Type *(Use additional forms for more BMPs)*	
	Forebay	Basin	Forebay	Basin
1 Pollutants addressed with BMP forebay and basin *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in Table 5-5 of the TGD for WQMP*				
2 Bottom width (ft)				
3 Bottom length (ft)				
4 Bottom area (ft^2) A_{bottom} = *Item 2 * Item 3*				
5 Side slope (ft/ft)				
6 Depth of storage (ft)				
7 Water surface area (ft^2) $A_{surface}$ =*(Item 2 + (2 * Item 5 * Item 6)) * (Item 3 + (2 * Item 5 * Item 6))*				
8 Storage volume (ft^3) *For BMP with a forebay, ensure fraction of total storage is within ranges specified in BMP specific fact sheets, see Table 5-6 of the TGD for WQMP for reference to BMP design details* V =*Item 6 / 3 * [Item 4 + Item 7 + (Item 4 * Item 7)^0.5]*				
9 Drawdown Time (hrs) *Copy Item 6 from Form 2.1*				
10 Outflow rate (cfs) Q_{BMP} = *(Item* $8_{forebay}$ *+ Item* 8_{basin}*) / (Item 9 * 3600)*				
11 Duration of design storm event (hrs)				
12 Biotreated Volume (ft^3) $V_{biotreated}$ = *(Item* $8_{forebay}$ *+ Item* 8_{basin}*) +(Item 10 * Item 11 * 3600)*				
13 Total biotreated volume from constructed wetlands, extended dry detention, or extended wet detention : *(Sum of Item 12 for all BMP included in plan)*				

Form 4.3-7 Flow Based Biotreatment (DA 1)

Biotreatment BMP Type *Vegetated swale, vegetated filter strip, or other comparable proprietary BMP*	DA DMA BMP Type	DA DMA BMP Type	DA DMA BMP Type *(Use additional forms for more BMPs)*
1 Pollutants addressed with BMP *List all pollutant of concern that will be effectively reduced through specific Unit Operations and Processes described in TGD Table 5-5*			
2 Flow depth for water quality treatment (ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
3 Bed slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
4 Manning's roughness coefficient			
5 Bottom width (ft) *b_w = (Form 4.3-5 Item 6 * Item 4) / (1.49 * Item 2^1.67 * Item 3^0.5)*			
6 Side Slope (ft/ft) *BMP specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
7 Cross sectional area (ft^2) *A = (Item 5 * Item 2) + (Item 6 * Item 2^2)*			
8 Water quality flow velocity (ft/sec) *V = Form 4.3-5 Item 6 / Item 7*			
9 Hydraulic residence time (min) *Pollutant specific, see Table 5-6 of the TGD for WQMP for reference to BMP design details*			
10 Length of flow based BMP (ft) *L = Item 8 * Item 9 * 60*			
11 Water surface area at water quality flow depth (ft^2) *SA_{top} = (Item 5 + (2 * Item 2 * Item 6)) * Item 10*			

4.3.5 Conformance Summary

Complete Form 4.3-8 to demonstrate how on-site LID DCV is met with proposed site design, infiltration, and/or biotreatment BMP. The bottom line of the form is used to describe the basis for infeasibility determination for on-site LID BMP to achieve full LID DCV, and provides methods for computing remaining volume to be addressed in an alternative compliance plan. If the project has more than one outlet, then complete additional versions of this form for each outlet.

Form 4.3-8 Conformance Summary and Alternative Compliance Volume Estimate (DA 1)

1 Total LID DCV for the Project DA-1 (ft^3): Δ = -731 cu. Ft. *Copy Item 7 in Form 4.2-1*

2 On-site retention with site design BMP (ft^3): *Copy Item18 in Form 4.3-2*

3 On-site retention with LID infiltration BMP (ft^3): *Copy Item 16 in Form 4.3-3*

4 On-site biotreatment with volume based biotreatment BMP (ft^3): *Copy Item 3 in Form 4.3-4*

5 Flow capacity provided by flow based biotreatment BMP (cfs): *Copy Item 6 in Form 4.3-4*

6 LID BMP performance criteria are achieved if answer to any of the following is "Yes":**

- Full retention of LID DCV with site design or infiltration BMP: Yes ☒ No ☐
  If yes, sum of Items 2, 3, and 4 is greater than Item 1
- Combination of on-site retention BMPs for a portion of the LID DCV and volume-based biotreatment BMP that address all pollutants of concern for the remaining LID DCV: Yes ☐ No ☐
  If yes, a) sum of Items 2, 3, 4, and 5 is greater than Item 1, and Items 2, 3 and 4 are maximized; or b) Item 6 is greater than Form 4.3--5 Item 6 and Items 2, 3 and 4 are maximized
- On-site retention and infiltration is determined to be infeasible; therefore biotreatment BMP provides biotreatment for all pollutants of concern for full LID DCV: Yes ☐ No ☐
  If yes, Form 4.3-1 Items 7 and 8 were both checked yes

7 If the LID DCV is not achieved by any of these means, then the project may be allowed to develop an alternative compliance plan. Check box that describes the scenario which caused the need for alternative compliance:

- Combination of Site Design, retention and infiltration, , and biotreatment BMPs provide less than full LID DCV capture: ☐
  Checked yes if Form 4.3-4 Item 7is checked yes, Form 4.3-4 Item 6 is zero, and sum of Items 2, 3, 4, and 5 is less than Item 1. If so, apply water quality credits and calculate volume for alternative compliance, V_{alt} *= (Item 1 – Item 2 – Item 3 – Item 4 – Item 5) * (100 - Form 2.4-1 Item 2)%*

- Facilities, or a combination of facilities, of a different design than in Section E.12.e.(ii)(f) may be permitted if all of the following Phase II Small MS4 General Permit 2013-0001-DWQ 55 February 5, 2013 measures of equivalent effectiveness are demonstrated:
  1) Equal or greater amount of runoff infiltrated or evapotranspired; ☐
  2) Equal or lower pollutant concentrations in runoff that is discharged after biotreatment; ☐
  3) Equal or greater protection against shock loadings and spills; ☐
  4) Equal or greater accessibility and ease of inspection and maintenance. ☐

4.3.6 Hydromodification Control BMP

Use Form 4.3-9 to compute the remaining runoff volume retention, after Site Design BMPs are implemented, needed to address hydromodification, and the increase in time of concentration and decrease in peak runoff necessary to meet targets for protection of waterbodies with a potential hydromodification. Describe the proposed hydromodification treatment control BMP. Section 5.6 of the TGD for WQMP provides additional details on selection and evaluation of hydromodification control BMP.

Form 4.3-9 Hydromodification Control BMPs (DA 1)

1 Volume reduction needed for hydromodification performance criteria (ft^3): *(Form 4.2-2 Item 4 * 0.95) – Form 4.2-2 Item 1*	**2** On-site retention with site design and infiltration, BMP (ft^3): *Sum of Form 4.3-8 Items 2, 3, and 4. Evaluate option to increase implementation of on-site retention in Forms 4.3-2, 4.3-3, and 4.3-4 in excess of LID DCV toward achieving hydromodification volume reduction*
3 Remaining volume for hydromodification volume capture (ft^3): *Item 1 – Item 2*	**4** Volume capture provided by incorporating additional on-site BMPs (ft^3):

5 Is Form 4.2-2 Item 11 less than or equal to 5%: Yes ☐ No ☐

If yes, hydromodification performance criteria is achieved. If no, select one or more mitigation options below:

- Demonstrate increase in time of concentration achieved by proposed LID site design, LID BMP, and additional on-site BMP ☐
- Increase time of concentration by preserving pre-developed flow path and/or increase travel time by reducing slope and increasing cross-sectional area and roughness for proposed on-site conveyance facilities ☐

6 Form 4.2-2 Item 12 less than or equal to 5%: Yes ☐ No ☐

If yes, hydromodification performance criteria is achieved. If no, select one or more mitigation options below:

- Demonstrate reduction in peak runoff achieved by proposed LID site design, LID BMPs, and additional on-site retention BMPs ☐

4.4 Alternative Compliance Plan (if applicable)

Describe an alternative compliance plan (if applicable) for projects not fully able to infiltrate, or biotreat the DCV via on-site LID practices. A project proponent must develop an alternative compliance plan to address the remainder of the LID DCV. Depending on project type some projects may qualify for water quality credits that can be applied to reduce the DCV that must be treated prior to development of an alternative compliance plan (see Form 2.4-1, Water Quality Credits). Form 4.3-9 Item 8 includes instructions on how to apply water quality credits when computing the DCV that must be met through alternative compliance.

Alternative Designs — Facilities, or a combination of facilities, of a different design than in Permit Section E.12.e.(ii)(f) may be permitted if all of the following measures of equivalent effectiveness are demonstrated:

1) Equal or greater amount of runoff infiltrated or evapotranspired;

2) Equal or lower pollutant concentrations in runoff that is discharged after biotreatment;

3) Equal or greater protection against shock loadings and spills;

4) Equal or greater accessibility and ease of inspection and maintenance.

The Project Proponent will need to obtain written approval for an alternative design from the Lahontan Regional Water Board Executive Officer (see Section 6 of the TGD for WQMP).

Section 5 Inspection and Maintenance Responsibility for Post Construction BMP

All BMPs included as part of the project WQMP are required to be maintained through regular scheduled inspection and maintenance (refer to Section 8, Post Construction BMP Requirements, in the TGD for WQMP). Fully complete Form 5-1 summarizing all BMP included in the WQMP. Attach additional forms as needed. The WQMP shall also include a detailed Operation and Maintenance Plan for all BMP and a Maintenance Agreement. The Maintenance Agreement must also be attached to the WQMP.

Form 5-1 BMP Inspection and Maintenance **(use additional forms as necessary)**			
BMP	Reponsible Party(s)	Inspection/ Maintenance Activities Required	Minimum Frequency of Activities
Onsite storm drain catch basins	Property Owner	Onsite catch basins shall be inspected quarterly for debris buildup and evidence of illegal dumping and shall be cleaned whenever debris/sediment accumulates. Removal can be accomplished by vac-truck or other equally effective methods.	Quarterly
Underground Infiltration System	Property Owner	Regular inspections of system to oberserve sediment build up and infiltration capacity. Cleaning of accumulated trash, debris, and sediments as determined by inspections. Cleaning is recommended during dry weather. See manufacturer recommendations for additional maintenance activities.	Monthly and within 48 hours following a significant storm event to verify there is no standing water in the chambers
Hydrodynamic Separator	Property Owner	Visual inspection and debris removed quarterly per manufacturer recommendations.	Quarterly
Landscape Maintenance	Property Owner	Maintain landscape area vegetation, slope protection and grades, adjacent to hardscape and prevent discharge of landscape maintenance waste into storm drains.	Weekly
Litter Control	Property Owner	Maintain roofed waste collection areas and vacuum-sweep drive aisles and parking areas to remove potential stormwater contamination before anticipated storm events.	Weekly/Monthly
Anti-Dumping Stenciling & Signage	Property Owner	Visual inspection and replacement of damaged or illegible stenciling and signage over on-site catch basins	Annually

Section 6 WQMP Attachments

6.1. Site Plan and Drainage Plan

Include a site plan and drainage plan sheet set containing the following minimum information:

- Project location
- Site boundary
- Land uses and land covers, as applicable
- Suitability/feasibility constraints
- Structural Source Control BMP locations
- Site Design Hydrologic Source Control BMP locations
- LID BMP details
- Drainage delineations and flow information
- Drainage connections

6.2 Electronic Data Submittal

Minimum requirements include submittal of PDF exhibits in addition to hard copies. Format must not require specialized software to open. If the local jurisdiction requires specialized electronic document formats (as described in their Local Implementation Plan), this section will describe the contents (e.g., layering, nomenclature, geo-referencing, etc.) of these documents so that they may be interpreted efficiently and accurately.

6.3 Post Construction

Attach all O&M Plans and Maintenance Agreements for BMP to the WQMP.

6.4 Other Supporting Documentation

- 6.4.1 Calculations
- 6.4.2 NOAA Precipitation Data
- 6.4.3 Education Materials
- 6.4.4 Construction Plans

Variable	Factor/Formula	Proposed	Unit	
Ratio of impervious surface/total site surface	(imp%)	79%		
R_C= runoff coefficient	$0.858(imp\%)^3 - 0.78(imp\%)^2 + 0.774(imp\%) + 0.04$ =	0.587		
P_6	**P6 = 2-yr,1- hr depth*1.2371 =	0.529	in	
Detention Volume- inches	$P_0 = a * C_{BMP} * P_6$ =	0.610	inches	
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	in	
Project Total Area (ac)	(A)	1.42	ac	
Design Capture Volume, cu. ft. (DCV)	$V_0 = [(P_0 * A)/12]*43560$ =	3140.445	cu.ft.	

**For P6 value, use site coordinates and NOAA website to determine project's average 2-yr, 1 hr storm
For this location the depth is 0.428"

Proposed Area

	SF	AC
Total Area	61805	1.41885
Impervious Area	48770	1.1196051
Pervious	13035	0.2992424
impervious ratio =	0.789094733	
2-year, 1 Hour Rainfall Depth=	0.428	in

Variable	Factor/Formula	Proposed	Unit	
Ratio of impervious surface/total site surface	(imp%)	90%		
R_C= runoff coefficient	$0.858(imp\%)^3 - 0.78(imp\%)^2 + 0.774(imp\%) + 0.04$ =	0.725		
P_6	**P6 = 2-yr,1- hr depth*1.2371 =	0.529	in	
Detention Volume- inches	$P_0 = a * C_{BMP} * P_6$ =	0.753	inches	
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	in	
Project Total Area (ac)	(A)	1.42	ac	
Design Capture Volume, cu. ft. (DCV)	$V_0 = [(P_0 * A)/12]*43560$ =	3879.892	cu.ft.	

Existing Area

	SF	AC
Total Area	61805	1.41885
Impervious Area	55390	1.2715794
Pervious	6415	0.1472681
Impervious ratio =	0.896205809	
2-year, 1 Hour Rainfall Depth=	0.428	in

NOAA Atlas 14, Volume 6, Version 2
Location name: Yucca Valley, California, USA*
Latitude: 34.1323°, Longitude: -116.3844°
Elevation: 3215 ft**
* source: ESRI Maps
** source: USGS

POINT PRECIPITATION FREQUENCY ESTIMATES

Sanja Perica, Sarah Dietz, Sarah Heim, Lillian Hiner, Kazungu Maitaria, Deborah Martin, Sandra Pavlovic, Ishani Roy, Carl Trypaluk, Dale Unruh, Fenglin Yan, Michael Yekta, Tan Zhao, Geoffrey Bonnin, Daniel Brewer, Li-Chuan Chen, Tye Parzybok, John Yarchoan

NOAA, National Weather Service, Silver Spring, Maryland

PF_tabular | PF_graphical | Maps_&_aerials

PF tabular

PDS-based point precipitation frequency estimates with 90% confidence intervals (in inches)[1]

Duration	Average recurrence interval (years)									
	1	2	5	10	25	50	100	200	500	1000
5-min	0.079 (0.065-0.096)	0.117 (0.097-0.143)	0.176 (0.145-0.216)	0.231 (0.189-0.285)	0.318 (0.252-0.406)	0.396 (0.307-0.516)	0.485 (0.367-0.648)	0.590 (0.434-0.810)	0.845 (0.597-1.21)	1.14 (0.779-1.69)
10-min	0.113 (0.093-0.137)	0.168 (0.139-0.205)	0.252 (0.208-0.309)	0.331 (0.271-0.409)	0.456 (0.361-0.582)	0.567 (0.440-0.739)	0.696 (0.526-0.929)	0.846 (0.623-1.16)	1.21 (0.855-1.73)	1.64 (1.12-2.42)
15-min	0.136 (0.113-0.166)	0.203 (0.168-0.248)	0.305 (0.252-0.374)	0.400 (0.328-0.495)	0.551 (0.436-0.704)	0.686 (0.532-0.894)	0.841 (0.637-1.12)	1.02 (0.753-1.40)	1.46 (1.03-2.10)	1.98 (1.35-2.93)
30-min	0.208 (0.172-0.254)	0.310 (0.257-0.379)	0.466 (0.385-0.571)	0.612 (0.501-0.756)	0.843 (0.667-1.08)	1.05 (0.813-1.37)	1.29 (0.973-1.72)	1.56 (1.15-2.15)	2.24 (1.58-3.20)	3.03 (2.06-4.48)
60-min	0.288 (0.238-0.351)	0.428 (0.354-0.523)	0.644 (0.531-0.788)	0.845 (0.691-1.04)	1.16 (0.920-1.48)	1.45 (1.12-1.89)	1.78 (1.34-2.37)	2.16 (1.59-2.96)	3.09 (2.18-4.42)	4.18 (2.85-6.18)
2-hr	0.401 (0.332-0.490)	0.567 (0.469-0.693)	0.810 (0.668-0.993)	1.03 (0.843-1.27)	1.36 (1.08-1.74)	1.65 (1.28-2.15)	1.97 (1.49-2.63)	2.34 (1.72-3.20)	3.12 (2.20-4.46)	4.22 (2.88-6.24)
3-hr	0.476 (0.394-0.581)	0.660 (0.546-0.807)	0.926 (0.764-1.14)	1.16 (0.951-1.44)	1.52 (1.20-1.94)	1.82 (1.41-2.37)	2.14 (1.62-2.86)	2.51 (1.85-3.45)	3.15 (2.23-4.51)	4.26 (2.91-6.30)
6-hr	0.616 (0.510-0.751)	0.841 (0.696-1.03)	1.16 (0.955-1.42)	1.43 (1.17-1.77)	1.84 (1.45-2.34)	2.17 (1.68-2.83)	2.53 (1.91-3.37)	2.92 (2.15-4.00)	3.48 (2.46-4.98)	4.30 (2.94-6.37)
12-hr	0.748 (0.619-0.913)	1.03 (0.850-1.26)	1.42 (1.17-1.74)	1.76 (1.44-2.17)	2.26 (1.78-2.88)	2.66 (2.06-3.47)	3.10 (2.34-4.14)	3.58 (2.63-4.91)	4.27 (3.01-6.10)	4.84 (3.30-7.16)
24-hr	0.919 (0.814-1.06)	1.28 (1.14-1.48)	1.80 (1.59-2.08)	2.25 (1.97-2.62)	2.92 (2.47-3.51)	3.47 (2.88-4.26)	4.07 (3.30-5.12)	4.73 (3.73-6.12)	5.70 (4.32-7.67)	6.51 (4.77-9.06)
2-day	0.991 (0.878-1.14)	1.41 (1.25-1.63)	2.01 (1.78-2.33)	2.54 (2.22-2.96)	3.31 (2.81-3.99)	3.96 (3.29-4.86)	4.66 (3.78-5.87)	5.44 (4.29-7.03)	6.58 (4.98-8.86)	7.53 (5.52-10.5)
3-day	1.06 (0.943-1.23)	1.54 (1.36-1.77)	2.21 (1.95-2.56)	2.81 (2.46-3.27)	3.68 (3.12-4.43)	4.41 (3.66-5.42)	5.21 (4.22-6.55)	6.08 (4.80-7.87)	7.38 (5.59-9.94)	8.47 (6.20-11.8)
4-day	1.11 (0.982-1.28)	1.62 (1.43-1.86)	2.34 (2.07-2.71)	2.98 (2.61-3.48)	3.92 (3.33-4.72)	4.71 (3.91-5.79)	5.57 (4.52-7.01)	6.52 (5.15-8.43)	7.92 (6.00-10.7)	9.10 (6.66-12.7)
7-day	1.21 (1.08-1.40)	1.80 (1.60-2.08)	2.66 (2.34-3.07)	3.41 (2.98-3.97)	4.52 (3.83-5.44)	5.45 (4.53-6.70)	6.46 (5.24-8.14)	7.59 (5.99-9.82)	9.25 (7.01-12.5)	10.6 (7.80-14.8)
10-day	1.29 (1.14-1.49)	1.94 (1.72-2.24)	2.87 (2.54-3.32)	3.70 (3.24-4.31)	4.92 (4.17-5.93)	5.95 (4.94-7.31)	7.06 (5.73-8.89)	8.30 (6.55-10.7)	10.1 (7.67-13.6)	11.7 (8.54-16.2)
20-day	1.46 (1.30-1.69)	2.22 (1.96-2.55)	3.29 (2.91-3.81)	4.24 (3.72-4.95)	5.65 (4.79-6.80)	6.83 (5.67-8.39)	8.10 (6.57-10.2)	9.51 (7.50-12.3)	11.6 (8.76-15.6)	13.3 (9.72-18.5)
30-day	1.61 (1.43-1.86)	2.44 (2.16-2.82)	3.64 (3.22-4.21)	4.70 (4.11-5.48)	6.26 (5.30-7.54)	7.55 (6.27-9.28)	8.95 (7.26-11.3)	10.5 (8.27-13.5)	12.7 (9.61-17.1)	14.5 (10.6-20.2)
45-day	1.87 (1.66-2.16)	2.82 (2.49-3.25)	4.17 (3.68-4.82)	5.36 (4.69-6.24)	7.11 (6.02-8.56)	8.56 (7.11-10.5)	10.1 (8.20-12.7)	11.8 (9.31-15.3)	14.2 (10.8-19.2)	16.2 (11.9-22.6)
60-day	2.14 (1.89-2.46)	3.18 (2.82-3.67)	4.69 (4.14-5.42)	6.00 (5.25-6.99)	7.93 (6.72-9.54)	9.52 (7.90-11.7)	11.2 (9.10-14.1)	13.1 (10.3-16.9)	15.7 (11.9-21.1)	17.8 (13.1-24.8)

[1] Precipitation frequency (PF) estimates in this table are based on frequency analysis of partial duration series (PDS).

Numbers in parenthesis are PF estimates at lower and upper bounds of the 90% confidence interval. The probability that precipitation frequency estimates (for a given duration and average recurrence interval) will be greater than the upper bound (or less than the lower bound) is 5%. Estimates at upper bounds are not checked against probable maximum precipitation (PMP) estimates and may be higher than currently valid PMP values.

Please refer to NOAA Atlas 14 document for more information.

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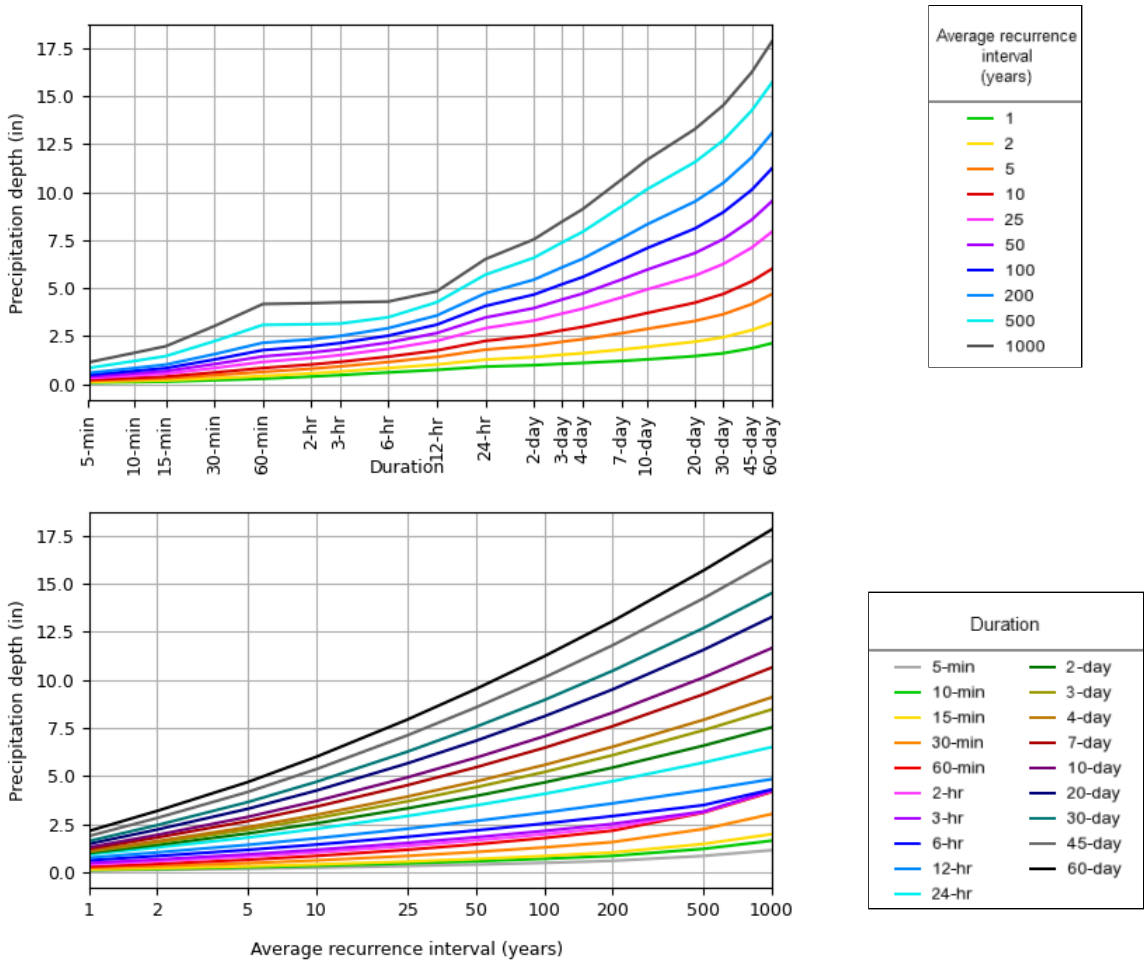
PF graphical

PDS-based depth-duration-frequency (DDF) curves
Latitude: 34.1323°, Longitude: -116.3844°



NOAA Atlas 14, Volume 6, Version 2

Created (GMT): Fri Mar 28 14:10:45 2025

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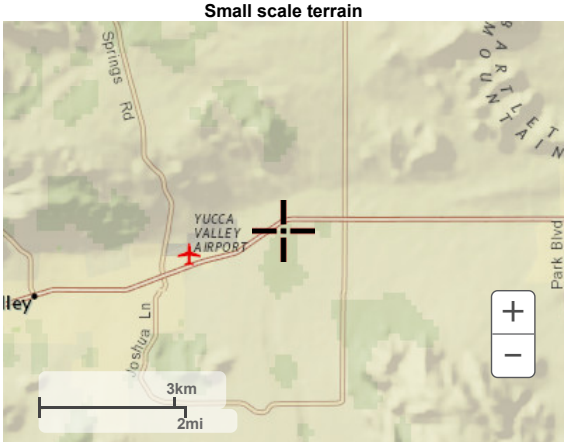
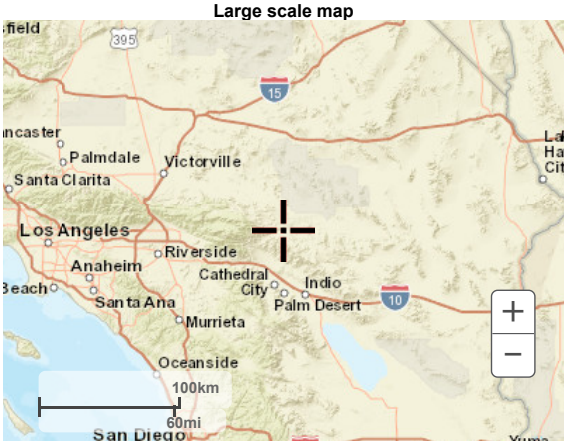
Maps & aerials

Small scale terrain

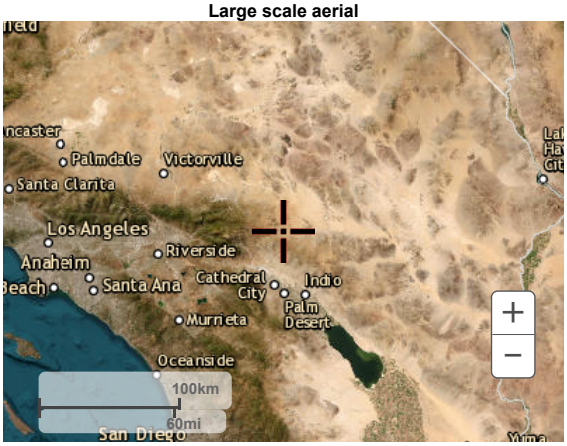


Large scale terrain

Large scale map



Large scale aerial



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US Department of Commerce
National Oceanic and Atmospheric Administration
National Weather Service
National Water Center
1325 East West Highway
Silver Spring, MD 20910
Questions?: HDSC.Questions@noaa.gov

Disclaimer

AquaShield™

INNOVATING GOOD CLEAN WATER

AQUA-SWIRL® TRASH CAPTURE

HYDRODYNAMIC SEPARATOR FEATURES

1. The Aqua-Swirl® Trash Capture is constructed of durable, lightweight, high performance materials to withstand up to HS-25 loads.
2. Floatable trash, debris and coarse sediments enter tangentially into the unit.
3. Vortex separation removes coarse particles of TSS, floatable debris, and free oil.
4. Stainless steel screen removes trash larger than 5 mm.
5. Independent testing & validation for 100% trash removal larger than 5 mm before discharging into sensitive receiving waters.

Water Boards

Aqua-Swirl® TRASH CAPTURE System

AQUA-SWIRL® TRASH CAPTURE

- Provides customized solutions for project specific requirements.
- Systems designed for specific water quality treatment flow rates.
- Modular sizes from 2.5 – 13 ft diameters with attached riser(s) to finish grade.
- Online project and system design tool at http://pda.aquashieldinc.com.

Vortex Separation Technology

- Utilizes hydrodynamic and gravitational forces incorporating a stainless steel screen to remove trash/debris greater than 5mm, coarse sediment (TSS), and free oil.
- Extensive full-scale laboratory testing with independent 3rd parties.
- Certified Full Trash Capture device by CA State Water Resources Control Board.

Bypass Designs

- Systems are designed to treat water quality flow rates and bypass peak storm events.
- Internal and external bypass configurations are available and tailored to site-specific needs.

Pipe Connections

- Systems are designed with custom inlet/outlet diameters at various configuration angles.
- Inlet/outlet stub outs are provided for easy coupling to storm drain lines.
- Easily plumbed to RCP, CMP, PVC, and HDPE piping with dissimilar pipe diameters.

Installation Benefits

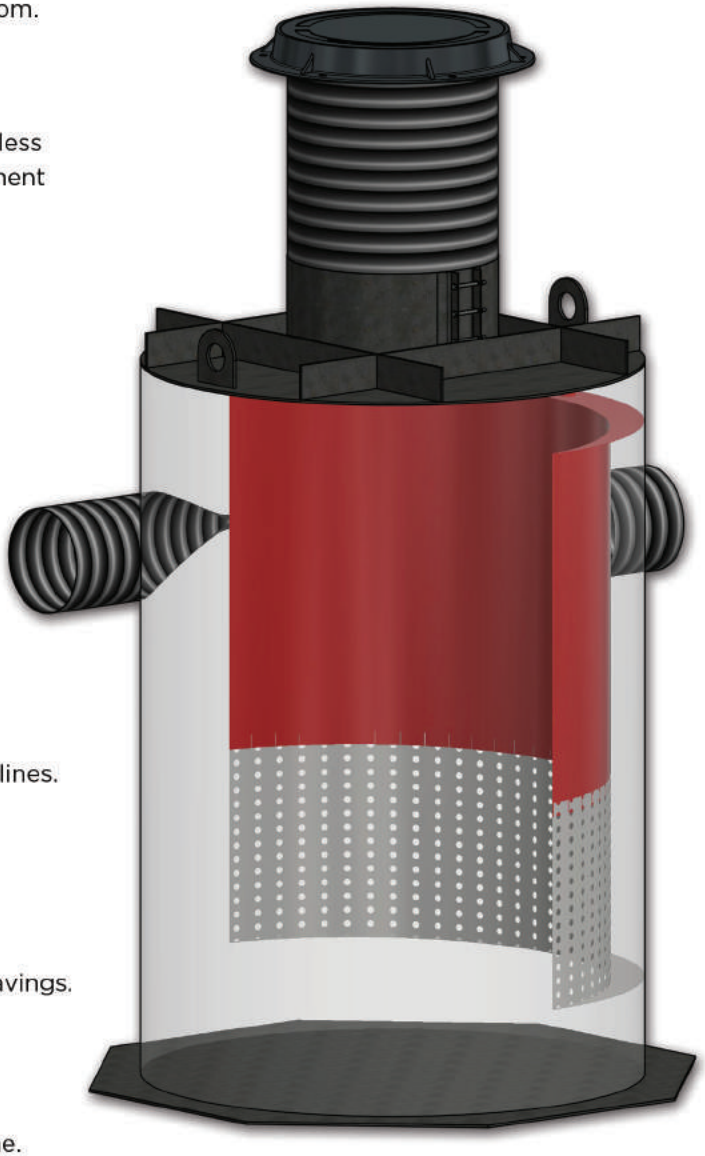
- Quick and simple installation, resulting in measurable project cost savings.
- Designed to withstand HS-25 loadings with capabilities of heavier loads available.
- Small footprint design reduces excavation costs.
- Lightweight and durable construction eliminating the need of a crane.
- Lifting lugs attached for easy maneuverability on site.

Storage Capacities

- Large storage capacities for sediment, debris and free oil to extend maintenance frequency.
- Screened trash capture storage capacities up to 122 ft3.
- Sediment storage capacities up to 310 ft3.

Inspection & Maintenance

- AquaShield™ offers an extensive network of local service providers across the country to ensure system performance efficiency.
- I&M manuals are available to download at www.aquashieldinc.com.



AquaShield™
WATER TREATMENT SOLUTIONS

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2733 Kanasita Dr., Ste 111
Chattanooga, TN 37343

888.344.9044
423.870.8888
423.826.2112 (fax)

CITY OF YUCCA VALLEY

POST-DEVELOPMENT WQMP EXHIBIT

FOR

WALMART FUEL YUCCA VALLEY

HYDROLOGY INFORMATION

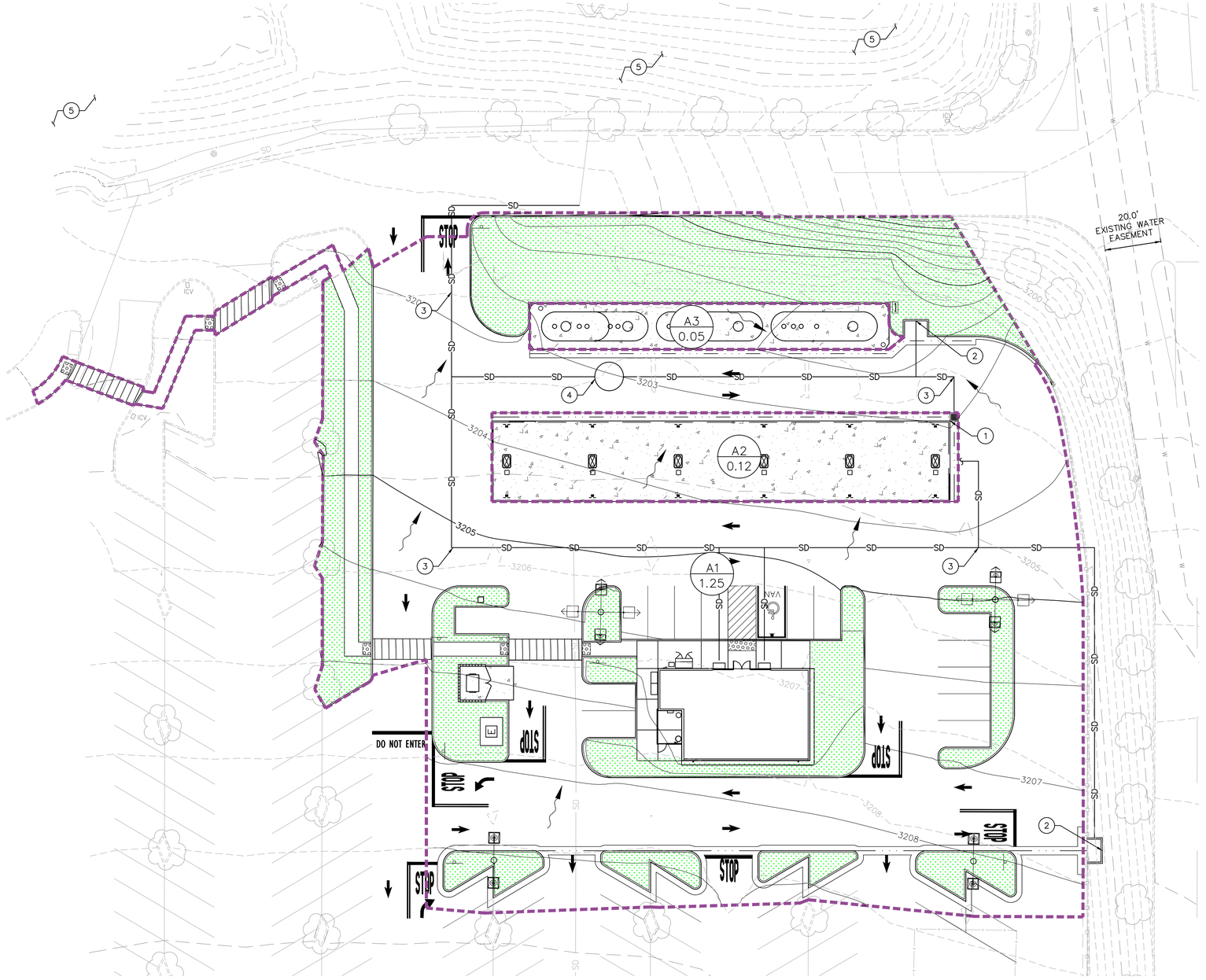
SITE AREA:	1.42 ACRES	
SOIL TYPE:	C	(NRCS WEB SOIL SURVEY)
IMPERVIOUS:	78.9%	(PER CALCULATIONS)
ISOHYETALS:	0.845 INCH	(10-YEAR, 1-HR STORM EVENT)
	1.78 INCH	(100-YEAR, 1-HR STORM EVENT)
CURVE NUMBER:	69	(SOIL GROUP C)
FREQUENCY:	10-YEAR	(FOR STORMWATER QUALITY)
	100-YEAR	(FOR STORM DRAIN DESIGN)
METHOD:	SAN BERNARDINO COUNTY HYDROLOGY MANUAL	

LEGEND:

- DRAINAGE AREA BOUNDARY
- SD — PROPOSED STORM DRAIN
- PROPOSED FLOW DIRECTION ARROW
- PROPOSED LANDSCAPE AREA
- PROPOSED ASPHALT AREA
- X / X.XX — DRAINAGE AREA DESIGNATION / AREA (AC)

DRAINAGE NOTES

1. PROPOSED AREA DRAIN
2. PROPOSED CATCH BASIN
3. PROPOSED STORM DRAIN LINE
4. PROPOSED BMP – AQUASHIELD AQUA-SWIRL TRASH CAPTURE AS-2S HYDRODYNAMIC SEPARATOR
5. EXISTING BMP – DETENTION BASIN



WQMP SUMMARY						
DRAINAGE AREA NO.	TRIBUTARY AREA (SF)	TRIBUTARY AREA (AC)	IMPERVIOUS RATIO	RUNOFF COEFFICIENT	DCV (CF)	Q_{10} ALLOWABLE (CFS)
A	61,805	1.42	0.79	0.71	3,140	0.85

NORTH

GRAPHIC SCALE IN FEET
0 ## ## ###

SCALE 1"= 80'
WHEN PRINTED FULL SIZE
24" X 36"

PREPARED BY:
Kimley»Horn

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WALMART FUEL YUCCA VALLEY
POST-DEVELOPMENT WQMP EXHIBIT
58501 29 PLAMS HWY

CITY OF YUCCA VALLEY

DATE: SEP 2025
SHEET
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OF 1

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APPENDIX E, YUCCA VALLEY WALMART FUEL STATION – NOISE EIR ADDENDUM ANALYSIS MEMORANDUM

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Kimley»Horn

MEMORANDUM

To:	Town of Yucca Valley Planning Division
From:	Alex Pohlman, Kimley-Horn and Associates, Inc.
Date:	January 21, 2026
Subject:	Yucca Valley Walmart Fuel Station – Noise EIR Addendum Analysis

PURPOSE

This comparative analysis has been undertaken to analyze whether the proposed Yucca Valley Walmart Fuel Station Project (Project) would result in any new or substantially more severe significant environmental impacts as compared to the conclusions discussed in the certified Yucca Valley Retail Specific Plan (Original Project) Environmental Impact Report (Final EIR) that was certified on June 25, 2008. The purpose of this technical memorandum is to assess whether any new noise impacts would occur based on proposed updates to the Project (described below) pursuant to Public Resources Code, Section 21166 and State CEQA Guidelines Section 15162.

ORIGINAL PROJECT

The Final EIR for the Original Project analyzed the development of a commercial retail center on approximately 25.51 acres located on the southeast corner of Twentynine Palms Highway (SR-62) and Avalon Avenue. The EIR analysis for the Original Project included a 229,000-square foot Walmart Supercenter, a fuel station, a 4,000-square foot fast-food restaurant with drive-through, and a detention basin. However, the Specific Plan, approved on August 14, 2008, did not include the fuel station as a permitted use and the area designated in the EIR for the fuel station and a 4,000-square foot fast-food restaurant with drive-through was ultimately developed with two smaller fast-food restaurants instead.

PROPOSED PROJECT

The proposed Project involves the development of a fuel station similar to the one previously analyzed in the Final EIR, although in a different location. The fuel station would be located in the northeastern portion of the existing parking lot, south of the detention basin and SR-62, see **Exhibit 1: Local Vicinity Map** and **Exhibit 2: Conceptual Site Plan**.

Source: ArcGIS Pro

EXHIBIT 1: Local Vicinity Map
Yucca Valley Fuel Station Project

Not to Scale

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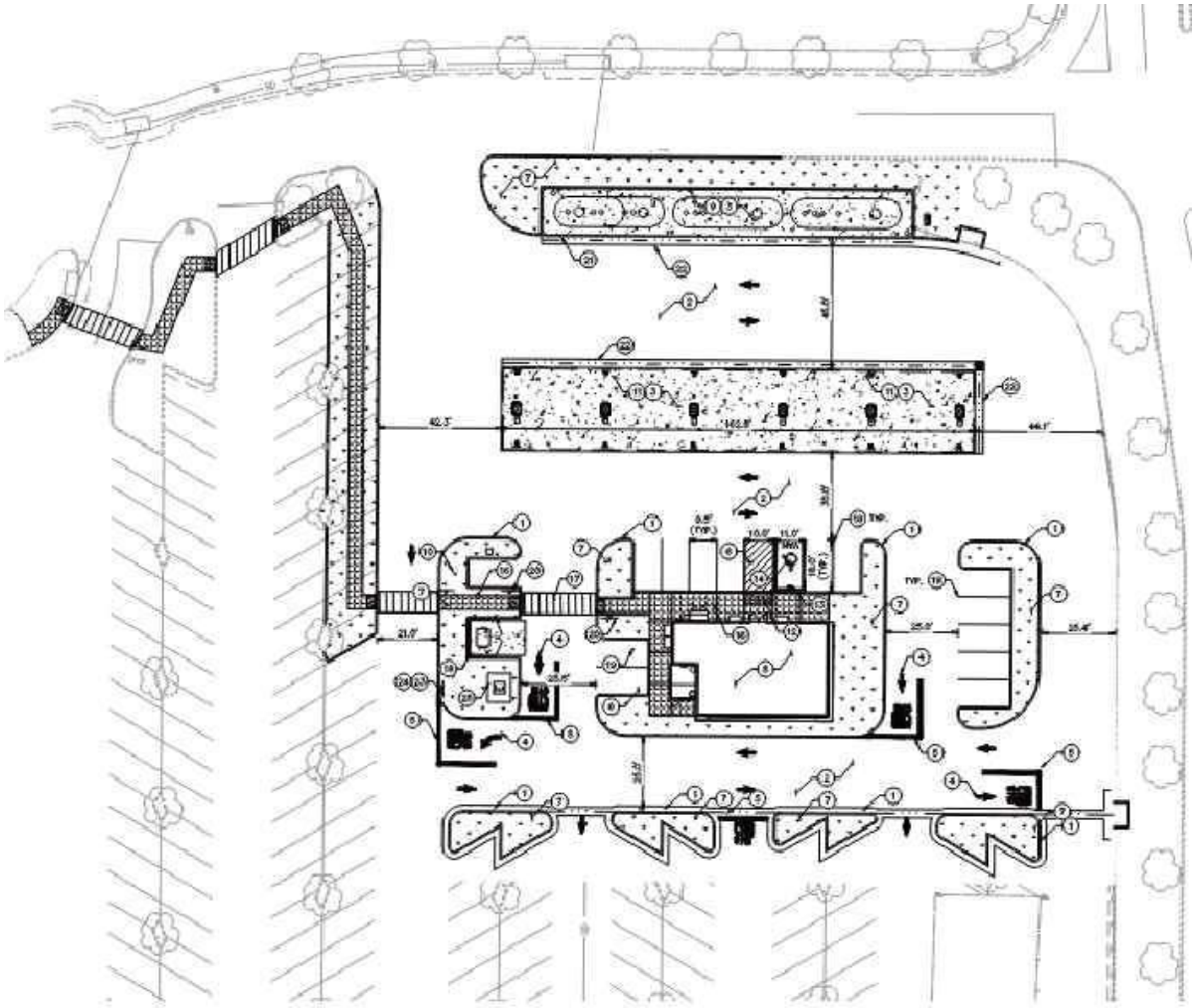
Expect More. Experience Better.



WALMART FUEL STATION - STORE #1915
58501 TWENTYNINE PALMS HIGHWAY, YUCCA VALLEY, CA 92284

Source: Kimley-Horn Traffic Scoping Agreement

EXHIBIT 2: Conceptual Site Plan
Yucca Valley Walmart Fuel Station Project

Not to Scale

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NOISE ANALYSIS

Previous Significance Determination: The Final EIR determined that construction would generate noise and vibrations that would result in significant and unavoidable impacts on nearby sensitive receptors. However, the Final EIR found that operational noise including noise generated onsite from mechanical equipment, parking lot activities, loading and unloading operations, as well as offsite noise generated from traffic associated with Original Project would be less than significant.

Proposed Project Analysis:

Threshold (a) Result in a substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project.

Temporary Construction Noise Impacts

Project construction is anticipated to occur over approximately 5 months and is scheduled to begin in November 2025 and completed in April 2026.[1] Construction of the Project would commence with demolition of an area of the existing surface parking lot, followed by grading and excavation. Building foundations would then be constructed, followed by building construction, paving/concrete installation, and architectural coatings. Construction delivery/haul trucks would generally travel between the Project Site and SR-62.

Construction noise typically occurs intermittently and varies depending on the nature or phase of construction (e.g., land clearing, grading, excavation, paving). Noise generated by construction equipment, including earth movers, material handlers, and portable generators, can reach high levels. During construction, exterior noise levels could affect the residential neighborhoods near the construction site. However, it is acknowledged that construction activities would occur throughout the Project site and would not be concentrated at a single point near sensitive receptors.

Construction activities would include demolition of the existing parking lot area, site preparation, grading, building construction, paving, and architectural coating. Such activities could require concrete saws, tractors, and dozers during demolition; graders, dozers and tractors during site preparation; graders, dozers, and tractors during grading; cranes, generators, tractors, forklifts, and welders during building construction; pavers, rollers, tractors, and a concrete mixer during paving; and air compressors during architectural coating. Typical operating cycles for these types of construction equipment may involve 1 or 2 minutes of full power operation followed by 3 to 4 minutes at lower power settings.

The construction noise analysis in the Final EIR did not identify a numeric threshold when determining construction noise impacts. However, it is assumed the noise threshold used in the

[1] A conservative worst-case construction timeline has been modeled for air quality and greenhouse gas analysis purposes. This construction schedule has been included in the noise analysis for consistency.

construction noise analysis is the exterior noise standard of 75 dBA L_{MAX} during the day (7:00 a.m. to 10:00 p.m.) and 70 dBA L_{MAX} standard during the night (10:00 p.m. to 7:00 a.m.).[2] The Final EIR stated that the nearest residences to the Original Project boundary may be subject to short-term and intermittent, maximum noise levels reaching 81 dBA L_{MAX} and would potentially result in annoyance, resulting in a significant impact requiring mitigation.

The noise levels calculated in **Table 1: Project Construction Noise Levels** for the proposed Project, shows that the maximum noise level of construction equipment at the nearest sensitive receptor would be 73.7 dBA L_{MAX}, which is lower than the construction noise levels of the Original Project. Construction of the proposed Project would generate noise levels less than the Town's exterior noise standard of 75 dBA L_{MAX} during the day. Construction is prohibited during the nighttime and therefore the 70 dBA L_{MAX} standard during the night would not be exceeded. As a result, Project construction noise would result in a less than significant impact.

Table 1: Project Construction Noise Levels

Construction Phase	Land Use	Direction	Distance to Property Line (feet)[1]	Average Distance (feet)[1]	Worst Case Modeled Exterior Noise Level (dBA L_{MAX})[1]
Demolition	Residential	North	410	535	73.7
Site Preparation	Residential	North	410	535	69.4
Grading	Residential	North	410	535	70.7
Building Construction	Residential	North	410	535	68.9
Paving	Residential	North	410	535	68.4
Architectural Coating	Residential	North	410	535	59.4

1. To conservatively estimate construction noise, the loudest equipment is assumed to operate nearest to the property line of the closest sensitive receptors. All other equipment is distributed evenly between the property line and an average distance, with loudest equipment located nearest to sensitive receptors and quieter equipment further away

Source: Refer to **Appendix A** for noise modeling results.

Mitigation Program

The following applicable mitigation measure is identified in the Final EIR.

4.11.1A Construction activities are restricted within the Town to the hours of 7:00 a.m. to 10:00 p.m. Monday through Saturday. The following measures would reduce short-term construction-related noise impacts resulting from the project:

- During all project site excavation and grading onsite, the project contractor shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers consistent with manufacturer's standards.

[2] Final EIR Yucca Valley Retail Specific Plan, 2008. page 4.11-21.

- The project contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the project site.
- The construction contractor shall locate equipment staging in areas that will create the greatest distance between construction-related noise sources and noise-sensitive receptors nearest the project site during all project construction.

Conclusion

Project construction would generate less noise than identified in the Final EIR. Noise levels at the nearest sensitive receptor would reach 73.7 dBA L_{MAX} which is below the Yucca Valley's exterior noise standard. As a result, Project construction noise impacts would be less than significant. Although the proposed Project's construction noise levels do not exceed the exterior standard, mitigation measures identified in the Final EIR to reduce construction noise impacts would still be required to reduce cumulative noise levels. The Project would not result in any new impacts, or increase the severity of the previously identified impacts, with respect to construction noise. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Final EIR was certified is available that would change the impact finding. Although the Final EIR determined that the Original Project would result in a significant and unavoidable impact, the distance of the fuel station component of the Project to sensitive receptors has reduced construction noise levels to a less than significant level.

Operational Noise Impacts

Fuel Station and Parking Lot Activities

The Final EIR determined that operational noise from the Original Project, including the fuel station would be less than significant. However, the Final EIR analysis did not provide noise levels for the fuel station only, as a result, this noise analysis will use the noise levels identified as parking lot activities in the Final EIR. The noise levels from parking lot activities would be comparable to fuel station noise levels because they include similar activities (i.e., car door slamming, car radios, engine start-up, and car pass-by). The Final EIR noted that these activities would generate approximately 60 dBA L_{MAX} at 50 feet.[3] The nearest sensitive receptor would be approximately 466 feet from the proposed fuel station refueling area. At this distance, the fuel station noise would attenuate to 40.6 dBA L_{MAX} which is lower than the Town's exterior noise standards of 75 dBA L_{MAX} during the day and 70 dBA L_{MAX} standard during the night. As a result, fuel station noise levels and would result in a less than significant impact.

Truck Movements

[3] Final EIR Yucca Valley Retail Specific Plan, 2008. page 4.11-21.

The Final EIR determined that slow moving trucks would generate noise levels of up to 75 dBA L_{MAX} when traveling and breaking at a distance of 50 feet.[4] The nearest sensitive receptor would be approximately 466 feet from the proposed fuel station refueling area. At this distance, the noise generated by tanker trucks delivering fuel would attenuate to 55.6 dBA L_{MAX} and would result in a less than significant impact.

Other Noise-Generating Activities

The Final EIR stated that buildings withing the Original Project would have rooftop heating, ventilating, and air conditioning (HVAC) mechanical equipment. The Final EIR states that rooftop HVAC units generate noise levels of approximately 52 dBA at a distance of 50 feet. Based on the site plan, the convenience store associated with the fuel station would be approximately 626 feet from the nearest sensitive receptor. At this distance, the noise generated by the rooftop HVAC unit would attenuate to 30 dBA and would result in a less than significant impact.

Mitigation Program

None identified in the Original Project Final EIR.

Conclusion

The development of the proposed Project would not result in any new impacts, or increase the severity of the previously identified impacts, with respect to operational noise. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Final EIR was certified is available that would change the impact finding. This impact would remain less than significant.

Threshold (b) Result in a substantial permanent increase in traffic-related noise levels in the project vicinity above levels existing without the project.

As noted in the Final EIR, it takes a doubling of traffic volume to cause a three-decibel increase in traffic noise.[5] Therefore, consistent with the Final EIR, vehicular traffic trips associated with the proposed Project would not result in significant traffic noise impacts on off-site sensitive uses.

The Proposed Project is anticipated to generate 826 daily trips. Vehicles accessing the site would either come from SR-62 or from Avalon Avenue. Based on the most recent data from the Caltrans Traffic Census Program (2022), the segment of SR-62 between Pioneer Town Road and the SR-247 north junction has an average annual daily trip rate of 24,000 vehicles per day.[6] Conservatively assuming all vehicles associated with the fuel station were to enter and exit the site from SR-62, the additional 826 vehicles would not be enough to double the existing traffic volume and generate a noticeable increase in traffic noise. Additionally, Table 5.14-3 of the

[4] Final EIR Yucca Valley Retail Specific Plan, 2008, page 4.11-21.
[5] Final EIR Yucca Valley Retail Specific Plan, 2008, page 4.11-9.
[6] Caltrans, Traffic Census Program, 2022. dot.ca.gov/programs/traffic-operations/census

Yucca Valley General Plan EIR states that the traffic volume of Avalon Avenue, north of Sunnyslope Drive, has 2,707 daily trips.[7] Conservatively assuming all vehicles associated with the fuel station were to enter and exit the site from Avalon Avenue, the additional 826 vehicles would not be enough to double the existing traffic volume and generate a noticeable increase in traffic noise. Therefore, operational traffic associated with the proposed Project would result in a less than significant impact.

Mitigation Program

None identified in the Original Project Final EIR.

Conclusion

The development of the proposed Project would not result in any new impacts, or increase the severity of the previously identified impacts, with respect to traffic-related noise. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Final EIR was certified is available that would change the impact finding. This impact remains less than significant.

Threshold (c) Result in the exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies.

The Final EIR determined that noise levels from loading and unloading operations for the Original Project may exceed the noise standards during nighttime hours at the closest residences. However, the operational noise levels discussed under Threshold (a) Operations associated with the operation of the proposed Project would combine to 56 dBA L_{MAX}. Assuming all these activities occurred at the same time during nighttime hours, the noise level would still be below the Town's exterior nighttime noise standard of 70 dBA L_{MAX}. However, although the proposed Project's operational noise levels do not exceed the nighttime standard, mitigation measures identified in the Final EIR to reduce noise impacts would still be required as part of the EIR to reduce cumulative noise levels.

Mitigation Program

The following applicable mitigation measures are identified in the Final EIR.

4.11.3A Nighttime operation of delivery trucks shall be limited to less than 30 minutes each.

4.11.3B Nighttime operation of delivery truck beepers shall be prohibited for on-site vehicles.

[7] Yucca Valley, General Plan EIR. 2014. https://www.yucca-valley.org/home/showpublisheddocument/5603/637399893763570000

Conclusion

The development of the proposed Project would not result in any new impacts, or increase the severity of the previously identified impacts, with respect to established noise standards. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Final EIR was certified is available that would change the impact finding.

Threshold (d) Result in the exposure of persons to or generation of excessive groundborne vibration or groundbourne noise levels.

The Final EIR determined that residences nearest the Original Project would experience vibration levels that could cause annoyance. The Final EIR states that bulldozers and other heavy equipment would generate approximately 92 vibration velocity in decibels (VdB) of groundbourne vibration at 50 feet and that at each doubling of the distance, the vibration level would be approximately 6 VdB lower [8] based on the Federal Transit Administration's (FTA) 1995 report, *Transit Noise and Vibration Impact Assessment Manual*. The Final EIR also states that annoyance often occurs when vibrations exceed the threshold of perception (65 VdB) by 10 decibels or more.

The Final EIR determined that existing residence located 150 feet to the west of the Original Project site (this includes the entire Original Project site, not just the fuel station) would be exposed to vibration levels between 80 and 86 VdB during construction which would result in annoyance, while vibrations from operations (trucks and other on-road vehicles) would not. The Final EIR concluded that although groundbourne vibration during construction would be temporary, impacts from groundbourne vibration during construction would be significant and unavoidable, as no mitigation measures would reduce this impact to less than significant.

However, the proposed Project construction site is approximately 410 feet from the property line of the nearest sensitive receptor. Following the Final EIR's methodology of reducing groundbourne vibrations by 6 VdB each time the distance is doubled, at 400 feet the vibrations from construction would be reduced to 74 VdB which is below the annoyance threshold of 75 VdB defined in the Final EIR. In addition, the current version of the FTA's *Transit Noise and Vibration Impact Assessment Manual,* dated 2018, includes lower vibration source levels for construction equipment. Based on the 2018 version of the manual, bulldozers will generate 87 VdB of groundbourne vibration at 25 feet, at a distance of 410 feet, the nearest sensitive receptor would experience vibration levels of 51 VdB, which is below the annoyance threshold of 75 VdB. Therefore, construction vibrations would not cause annoyance and impacts from groundbourne vibrations would be less than significant.

[8] Final EIR Yucca Valley Retail Specific Plan, 2008. pg 4.11-26.

Mitigation Program

None identified in the Original Project Final EIR.

Conclusion

The development of the proposed Project would not result in any new impacts, or increase the severity of the previously identified impacts, with respect to groundbourne vibrations. Although the Final EIR determined that the Original Project would result in a significant and unavoidable impact, the distance of the fuel station component of the Project to sensitive receptors and improvements to equipment have reduced construction equipment vibrations to a less than significant level.

Threshold (e) For a project located within an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels.

The Yucca Valley Airport is located approximately one mile west of the proposed project site. It is a privately owned airstrip which has been leased on a long term to the Yucca Valley Airport District. According to the Airport Comprehensive Land Use Plan for the Yucca Valley Airport, the proposed project site is located outside of the 60 CNEL contour line for Yucca Valley Airport. Although there may be occasional aircraft flyover noise that is higher than the ambient noise level, because the proposed project is located outside of the 60 CNEL contour line for the Yucca Valley Airport, airport noise levels at the proposed project site are within normally acceptable levels, resulting in a less than significant impact

Mitigation Program

None identified in the Original Project Final EIR.

Conclusion

There are no new potentially significant impacts associated with the development of proposed Project. Additionally, no new information of substantial importance that was not known and could not have been known at the time the Final EIR was certified is available that would change the impact finding. This impact remains less than significant.

Appendix A

Noise Data

Project:
Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

	Receptor (Land Use)	Average Distance (feet)	Distance to Property Line (feet)	Shielding	Direction
1	Residence	535	410	0	N

Construction Phase	Equipment Type	No. of Equip.	Acoustical Usage Factor	Reference Noise Level at 50ft per Unit, Lmax		RECEPTOR 1 Distance (feet)	Noise Level at Receptor 1, Lmax	Noise Level at Receptor 1, Leq
Demolition								
	Concrete Saw	1	20%	90		410	71.3	64.3
	Tractor	1	40%	84		441	65.1	61.1
	Tractor	1	40%	84		473	64.5	60.5
	Tractor	1	40%	84		504	63.9	60.0
	Dozer	1	40%	82		535	61.1	57.1
	Combined						**73.7**	**68.2**
Site Preparation								
	Grader	1	40%	85	-	410	66.7	62.7
	Tractor	1	40%	84		473	64.5	60.5
	Dozer	1	40%	82		535	61.1	57.1
	Combined						**69.4**	**65.5**
Grading								
	Grader	1	40%	85		410	66.7	62.7
	Tractor	1	40%	84		452	64.9	60.9
	Tractor	1	40%	84		493	64.1	60.1
	Dozer	1	40%	82		535	61.1	57.1
	Combined						**70.7**	**66.7**
Building Construction								
	Tractor	1	40%	84		410	65.7	61.7
	Crane	1	16%	81		431	61.9	53.9
	Generator	1	50%	81		452	61.5	58.5
	Man Lift	1	20%	75		473	55.2	48.2
	Welder/Torch	1	40%	74		493	54.1	50.1
	Welder/Torch	1	40%	74		514	53.8	49.8
	Welder/Torch	1	40%	74		535	53.4	49.4
	Combined						**68.9**	**64.5**
Paving								
	Tractor	1	40%	84		410	65.7	61.7
	Roller	1	20%	80		441	61.1	54.1
	Concrete Mixer Truck	1	40%	79		473	59.3	55.3
	Paver	1	50%	77		504	57.1	54.1
	Paver	1	50%	77		535	56.6	53.6
	Combined						**68.4**	**64.1**
Architectural Coating								
	Compressor (air)	1	40%	78		410	59.4	55.4
	Combined						**59.4**	**55.4**

Distance Attenuation - Point Source

$$dBA_2 = dBA_1 + 20\ Log_{10}\left(\frac{d_1}{d_2}\right)$$

where:

dBA_1 = Reference Noise Level

dBA_2 = Estimated Noise Level

d_1 = Reference Distance

d_2 = Approximate Receptor Location Distance

	dBA_1	**d_1**	**d_2**	**dBA_2**	
Receptor 1	60	50	466	40.6	Parking Lot Noise
Receptor 2	75	50	466	55.6	Truck Movements
Receptor 3	52	50	626	30.0	HVAC

Decibel Addition:

$$L = 10\ Log_{10}(\sum_{i=1}^{n} 10^{\frac{Li}{10}})$$

n 1	40.6	Parking Lot
n 2	55.6	Truck Movements
n 3	43	HVAC
Total	56.0	

APPENDIX F, TRANSPORTATION IMPACT ANALYSIS FOR THE PROPOSED WALMART FUEL PROJECT IN THE TOWN OF YUCCA VALLEY

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Transportation Impact Analysis

For the Proposed

Walmart Fuel Project

In the Town of Yucca Valley

Prepared for:

Town of Yucca Valley

September 2025

Kimley»Horn

TRANSPORTATION IMPACT ANALYSIS
FOR THE PROPOSED
WALMART FUEL PROJECT
IN THE TOWN OF YUCCA VALLEY

Prepared by:

Kimley-Horn and Associates, Inc.
1100 Town and Country Road, Suite 700
Orange, California 92868

September 2025

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TRANSPORTATION IMPACT ANALYSIS
FOR THE PROPOSED
WALMART FUEL STATION PROJECT
IN THE TOWN OF YUCCA VALLEY

INTRODUCTION

Purpose and Study Objectives

This Transportation Impact Analysis has been prepared to address the traffic-related effects of the proposed Walmart Fuel Station project in the Town of Yucca Valley in San Bernardino County. This analysis has been conducted in accordance with the San Bernardino County *Transportation Impact Study Guidelines* (July 2019).

This report includes a description of existing traffic conditions in the surrounding area, estimated project trip generation and distribution, future traffic growth, and an assessment of project-related effects on the transportation system.

Project Overview

The project site is currently an existing Walmart parking lot and is bounded by drive aisles to the north and east and parking lot to the south and west. The project consists of the construction of a new fuel station with twelve fueling positions and a 1,556 square-foot convenience store within the northeast corner of the existing Walmart parking lot located at 58501 Twentynine Palms Highway. The project location is shown in its regional setting on Figure 1. The proposed project site plan is shown on Figure 2.

Proposed project ingress and egress will be facilitated via two existing drive aisles. One driveway and one intersection along Twentynine Palms Highway allow direct access to the proposed project; the westernmost driveway is right-in, right-out only (RIRO), and the easternmost intersection is full-access.

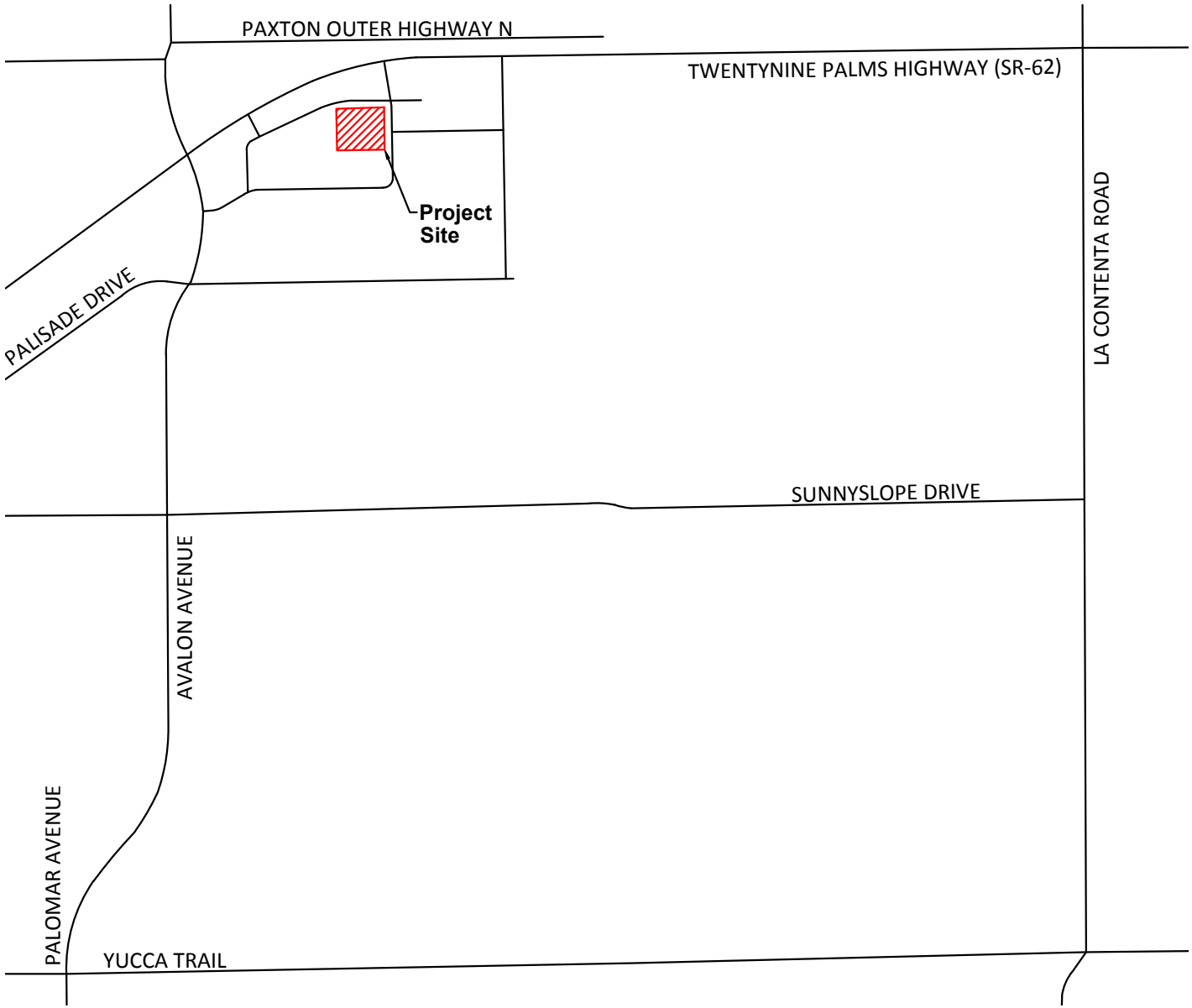


FIGURE 1
VICINITY MAP

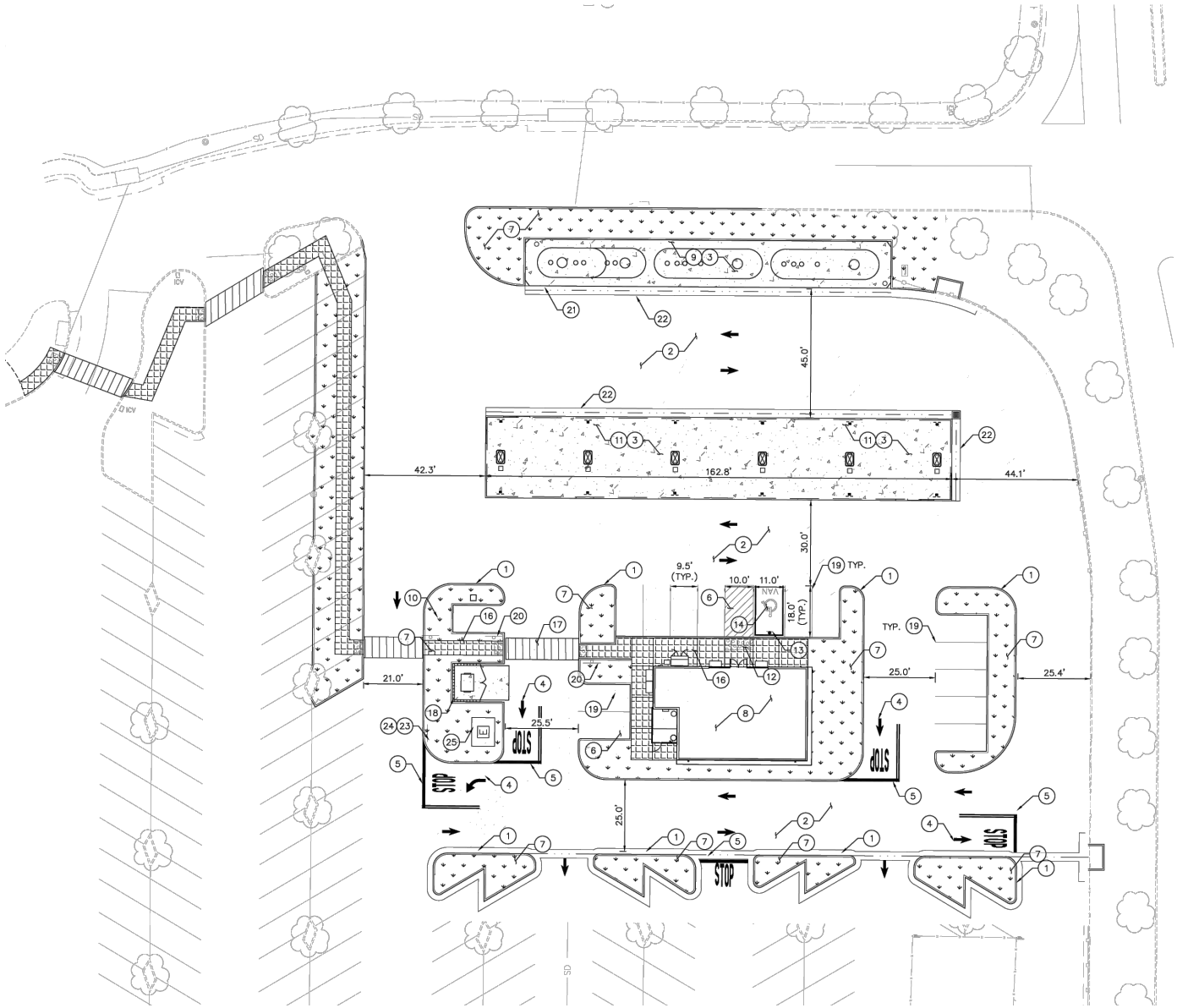


FIGURE 2
PROJECT SITE PLAN

ANALYSIS SCENARIOS AND METHODOLOGY

The analysis scenarios and methodology were established with Town of Yucca Valley staff through the Scoping Agreement process. As part of this process, a Traffic Consistency Analysis Memorandum was created to analyze the proposed project's consistency with the development assumed in the Environmental Impact Report (EIR) for the Yucca Valley Retail Specific Plan (March 2008). A copy of the approved Traffic Consistency Analysis Memorandum with the revised scope is provided in *Appendix A*.

Analysis Scenarios

Based on the San Bernardino County *Transportation Impact Study Guidelines* (July 2019), the study intersections will be evaluated in the morning and evening peak hours on a typical weekday for the following conditions:

- Existing Conditions
- Opening Year 2026
- Opening Year 2026 Plus Project

It should be noted that the revised scope in *Appendix A* reflects an Opening Year of 2025; however, per City correspondence in September 2025, the Opening Year was revised to 2026.

Intersection Analysis – HCM Methodology

Peak hour intersection operations at the study intersections and driveways were evaluated using the methods prescribed in the Highway Capacity Manual 7th Edition (HCM), consistent with San Bernardino County guidelines. The intersection analysis was conducted using Synchro 12 software.

For signalized intersections, the HCM methodology estimates the average delay (in average seconds per vehicle) for each of the movements through the intersection, considering a number of factors, including the number of lanes, volume of traffic, and the signal timing phasing.

For unsignalized intersections, the HCM methodology analysis determines the worst-case delay per lane for each vehicle making any movement from the stop-controlled minor street, as well as left turns from the major street. Delay values are calculated based on the relationship between traffic on the major street and the availability of acceptable gaps in the traffic stream through which conflicting traffic movements can be made.

In order to generate HCM results for Intersection #D2 (Twentynine Palms Highway (SR-62) & Commercial Driveway 2), the northbound approach was considered to be free moving to be most representative of the worst-case scenario.

The HCM delay forecast translates to a Level of Service designation, ranging from LOS A to LOS F. A

summary of each Level of Service and the corresponding delay is provided in the following chart.

LEVEL OF SERVICE DEFINITIONS	
Level of Service	Description
A	No approach phase is fully utilized by traffic and no vehicle waits longer than one red indication. Typically, the approach appears quite open, turns are made easily and nearly all drivers find freedom of operation.
B	This service level represents stable operation, where an occasional approach phase is fully utilized and a substantial number are approaching full use. Many drivers begin to feel restricted within platoons of vehicles.
C	This level still represents stable operating conditions. Occasionally drivers may have to wait through more than one red signal indication, and backups may develop behind turning vehicles. Most drivers feel somewhat restricted but not objectionably so.
D	This level encompasses a zone of increasing restriction, approaching instability at the intersection. Delays to approaching vehicles may be substantial during short peaks within the peak period; however, enough cycles with lower demand occur to permit periodic clearance of developing queues, thus preventing excessive backups.
E	Capacity occurs at the upper end of this service level. It represents the most vehicles that any particular intersection approach can accommodate. Full utilization of every signal cycle is seldom attained no matter how great the demand.
F	This level describes forced flow operations at low speeds, where volumes exceed capacity. These conditions usually result from queues of vehicles backing up from a restriction downstream. Speeds are reduced substantially, and stoppages may occur for short or long periods of time due to the congestion. In the extreme case, both speed and volume can drop to zero.

LEVEL OF SERVICE CRITERIA FOR SIGNALIZED AND UNSIGNALIZED INTERSECTIONS		
Level of Service	Signalized Intersection (Average delay per vehicle, in seconds) [1]	Unsignalized Intersections (Average delay per vehicle, in seconds) [2]
A	≤ 10	0 – 10
B	> 10 – 20	> 10 – 15
C	> 20 – 35	> 15 – 25
D	> 35 – 55	> 25 – 35
E	> 55 – 80	> 35 – 50
F	> 80	> 50

[1] Source: Highway Capacity Manual (HCM 7th Edition), Exhibit 19-8.

[2] Source: Highway Capacity Manual (HCM 7th Edition), Exhibit 20-2.

Level of Service Standards

The County of San Bernardino General Plan standard in the Desert Region for level of service for signalized and unsignalized intersections is LOS C.

Thresholds of Significance

The Town of Yucca Valley is located in the East Desert Region of San Bernardino County. The County requires that improvements shall be identified when any of the following occurs between the "without project" and the "plus project" conditions:

- Any signalized study intersection in the Desert region that is operating at an LOS C or better without project traffic in which the addition of project traffic causes the intersection to degrade to an LOS D, E, or F shall identify improvements to improve operations to LOS C.

- Any signalized study intersection in the Desert region that is operating at LOS D, E, or F without project traffic where the project increases delay by 5.0 or more seconds shall identify improvements to offset the increase in delay.

For unsignalized intersections, an operational improvement achieving LOS C or better or to pre-project LOS would be required if the analysis determines that either section a) or both sections b) and c) occur:

a) The addition of project-related traffic causes the intersection to degrade from an LOS D or better to a LOS E or worse in the Valley and Mountain regions or from an LOS C or better to an LOS D or worse in the Desert region.

OR

b) The project adds 5.0 seconds or more of delay to an intersection that is already projected to operate without project traffic at an LOS E or F in the Valley and Mountain regions or at an LOS D, E, or F in the Desert region (per Section 10.5.2 b).

AND

c) One or both of the following conditions are met:
   1) The project adds ten (10) or more trips to any minor street approach
   2) The intersection meets the peak hour traffic signal warrant after the addition of project traffic (per Section 10.5.2 c).

STUDY AREA

This Transportation Impact Analysis includes documentation of existing conditions, future conditions, and identification of project-related deficiencies at the following study locations:

Existing Intersections

1. Avalon Avenue & Twentynine Palms Highway (SR-62)
2. Avalon Avenue & Palisade Drive
3. Twentynine Palms Highway (SR-62) & West Commercial Access Road
4. Twentynine Palms Highway (SR-62) & East Commercial Access Road
5. Twentynine Palms Highway (SR-62) & La Contenta Road
6. Palomar Avenue & Yucca Trail
7. Yucca Trail & La Contenta Road

Future Project Driveways

D1. Twentynine Palms Highway (SR-62) & Commercial Driveway 1
D2. Twentynine Palms Highway (SR-62) & Commercial Driveway 2

The study locations were established in consultation with Town of Yucca Valley staff through the Scoping Agreement process.

AREA CONDITIONS

Existing Street System

Regional access to the site is provided primarily by the Twentynine Palms Freeway (SR-62).

Existing lane configurations and intersection controls at the study intersections are shown on Figure 3. A copy of the Town of Yucca Valley *Roadway Classifications at General Plan Buildout* is provided on Figure 4. The following provides a description of the roadways surrounding the project site.

Twentynine Palms Highway (SR-62) is an east-west roadway with two travel lanes in each direction. The posted speed limit is 50 miles per hour (mph). On-street parking is prohibited on both sides of the street and there are no bike lanes in either direction. Twentynine Palms Highway is classified as a Highway in the Town of Yucca Valley *Roadway Classifications at General Plan Buildout*.

Avalon Avenue is a north-west roadway with one travel lane in each direction. The posted speed limit is 45 mph. On-street parking is prohibited on both sides of the street and there are no bike lanes in either direction. Avalon Avenue is classified as an Arterial in the Town of Yucca Valley *Roadway Classifications at General Plan Buildout*.

Palisade Drive is an east-west roadway with one lane in each direction. There is on-street parking on both sides of the street and there are no bike lanes in either direction.

Yucca Trail is an east-west roadway with one lane in each direction. There is no on-street parking on both sides of the street and there are no bike lanes in either direction. The posted speed limit is 50 mph. Yucca Trail is classified as an Arterial in the Town of Yucca Valley *Roadway Classifications at General Plan Buildout*.

Palomar Avenue is a north-south roadway with one travel lane in each direction. The posted speed limit is 45 mph. On-street parking is prohibited on both sides of the street and there are no bike lanes in either direction. Palomar Avenue is classified as an Arterial in the Town of Yucca Valley *Roadway Classifications at General Plan Buildout.*

La Contenta Road is a north-south roadway with one travel lane in each direction. The posted speed limit is 55 mph. On-street parking is prohibited on both sides of the street and there are no bike lanes in either direction. La Contenta Road is classified as an Arterial in the Town of Yucca Valley *Roadway Classifications at General Plan Buildout.*

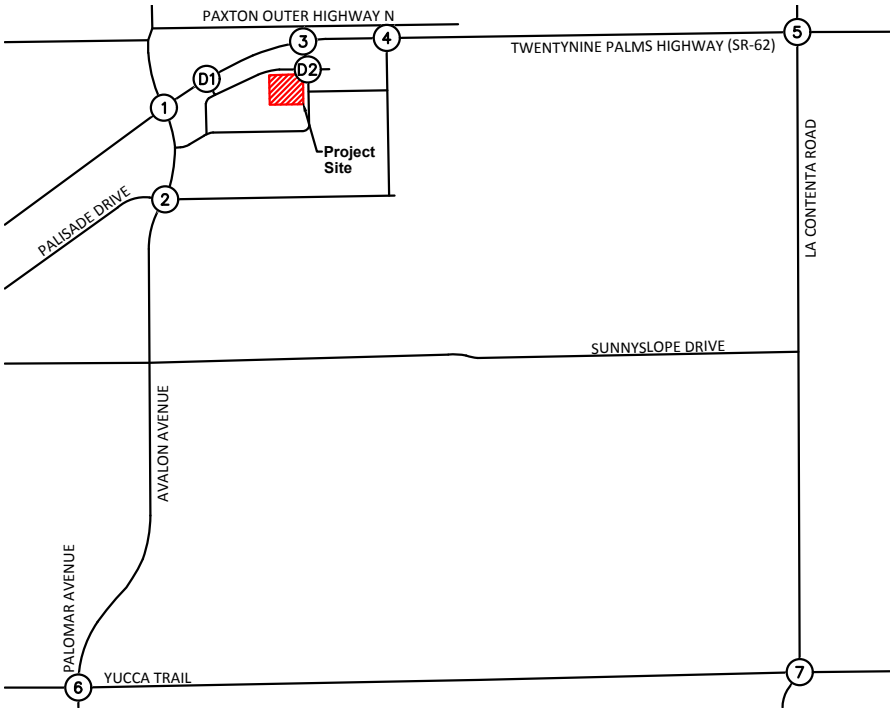
Yucca Mesa Road is an east-west roadway with one travel lane in each direction. The posted speed limit is 55 mph. On-street parking is prohibited on both sides of the street and there are no bike lanes in either direction. Yucca Mesa Road is classified as an Arterial in the Town of Yucca Valley *Roadway Classifications at General Plan Buildout.*

Existing Traffic Volumes

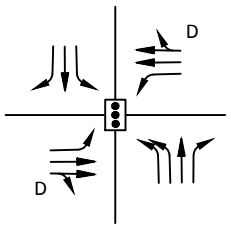
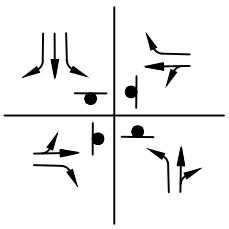
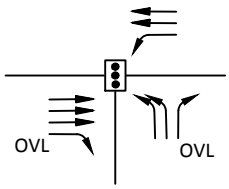
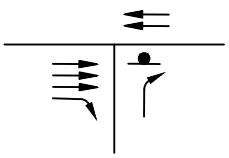
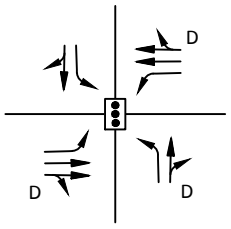
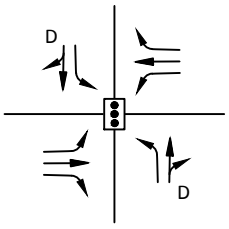
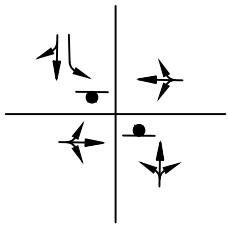
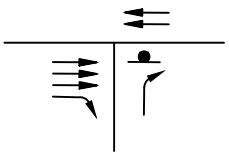
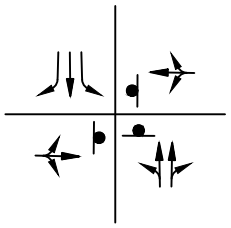
Existing morning peak hour and evening peak hour counts were conducted at the study intersections on a typical weekday. The counts were completed in December 2024, while schools were in session. Peak hour intersection traffic count worksheets are provided in *Appendix B*. Existing morning and evening peak hour volumes are presented on Figure 5.

Intersection Operating Conditions

Intersection Level of Service analysis was conducted for the morning and evening peak hours using the analysis procedures and assumptions described previously in this report. The results of the intersection analysis for Existing Conditions are shown on Table 1. Copies of Existing Conditions intersection analysis worksheets are provided in *Appendix C*. Review of this table shows that all study intersections currently operate at an acceptable Level of Service during the morning and evening peak hours.



NOT TO SCALE

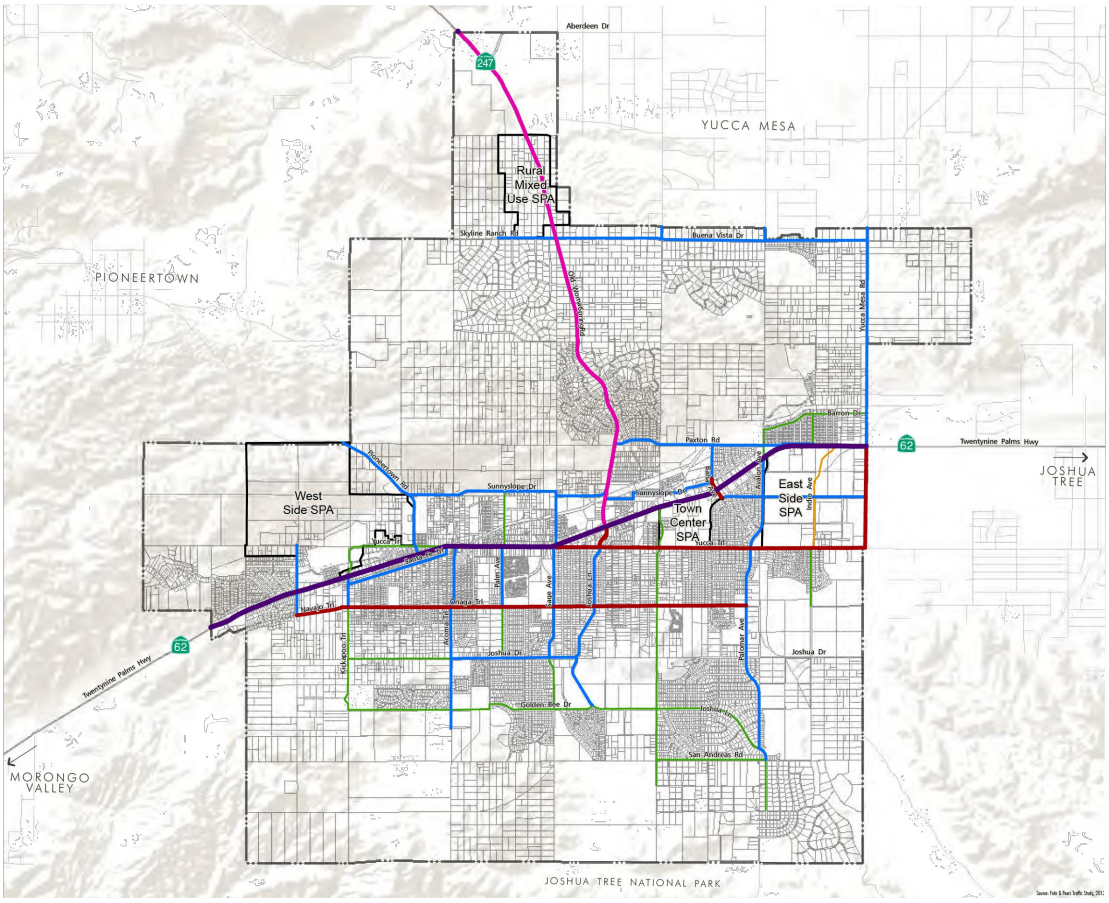
1. Avalon Ave at Twentynine Palms Hwy (SR-62)	2. Avalon Ave at Palisade Dr	3. Twentynine Palms Hwy (SR-62) at West Commercial Access Rd	4. Twentynine Palms Hwy (SR-62) at East Commercial Access Rd
			
5. Twentynine Palms Hwy (SR-62) at La Contenta Rd	6. Palomar Ave at Yucca Trail	7. Yucca Trail at La Contenta Rd	D1. Twentynine Palms Hwy (SR-62) at Commercial Dwy 1
			
D2. Twentynine Palms Hwy (SR-62) at Commercial Dwy 2			
			

LEGEND:

- (X) = Study Intersection
- = Turn or Through Lane
- = Signal
- = Stop Sign
- OVL = Right Turn Overlap
- D = Defacto Right Turn

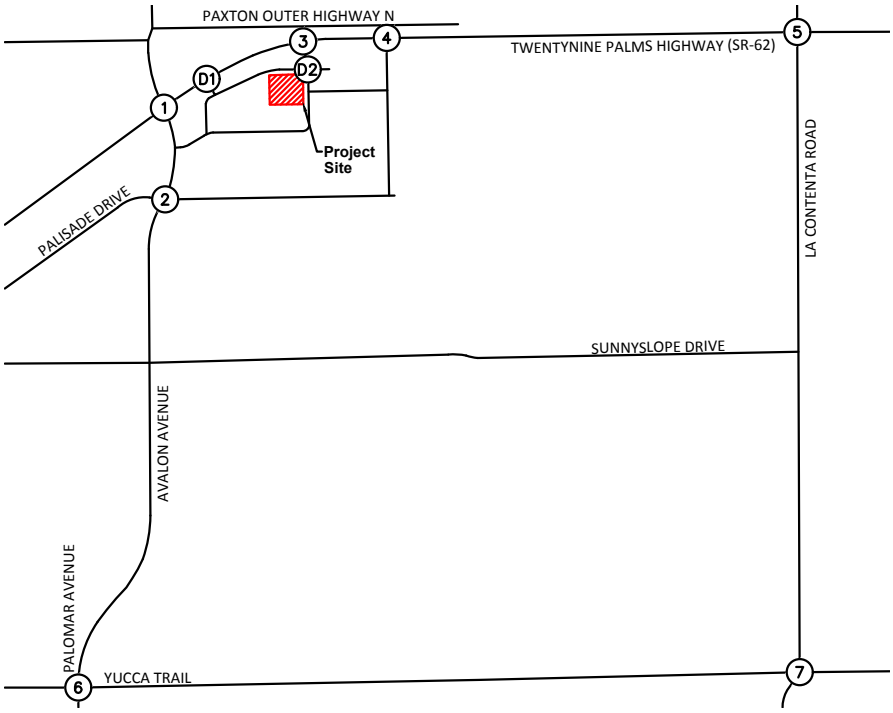
FIGURE 3
EXISTING LANE CONFIGURATION AND TRAFFIC CONTROL

NOT TO SCALE



ROADWAY CLASSIFICATIONS
- Highway – 6 Lanes Divided – 134′
- Highway – 4 Lanes Divided – 92′
- Arterial – 4 Lanes Divided – 100′
- Arterial – 2 Lanes – 70′
- Industrial – 2 Lanes with Striped Median – 70′
- Collector – 2 Lanes – 66′
- SPA - Special Policy Area
- Town Limits

FIGURE 4
TOWN OF YUCCA VALLEY GENERAL PLAN
ROADWAY CLASSIFICATION MAP



NOT TO SCALE

1. Avalon Ave at Twentynine Palms Hwy (SR-62)	2. Avalon Ave at Palisade Dr	3. Twentynine Palms Hwy (SR-62) at West Commercial Access Rd	4. Twentynine Palms Hwy (SR-62) at East Commercial Access Rd
14(12) 36(23) 20(20) ↖ 14(36) ← 595(768) ↙ 37(62) 6(31) → 521(722) → 37(108) ↘ ↗ 39(107) ↑ 26(39) ↑ 43(44)	27(25) 70(148) 3(5) ↖ 10(11) ← 3(2) ↙ 25(115) 25(41) → 3(4) → 4(23) ↘ ↗ 21(12) ↑ 104(121) ↑ 61(86)	← 586(729) ← 118(180) 454(659) → 76(76) ↘ ↗ 48(126) ↑ 46(171)	← 689(905) 521(839) → 2(5) ↘ ↗ 59(50)
5. Twentynine Palms Hwy (SR-62) at La Contenta Rd	**6. Palomar Ave at Yucca Trail**	**7. Yucca Trail at La Contenta Rd**	**D1. Twentynine Palms Hwy (SR-62) at Commercial Dwy 1**
108(80) 44(21) 54(63) ↖ 44(72) ← 548(795) ↙ 19(15) 57(132) → 482(691) → 21(22) ↘ ↗ 32(23) ↑ 32(28) ↑ 15(17)	28(82) 44(132) 16(64) ↖ 30(51) ← 227(238) ↙ 56(84) 30(54) → 177(198) → 19(51) ↘ ↗ 42(46) ↑ 65(101) ↑ 151(94)	98(41) 20(26) ↖ 16(13) ← 172(261) 103(28) → 226(256) →	← 647(866) 549(728) → 30(51) ↘ ↗ 7(39)
D2. Twentynine Palms Hwy (SR-62) at Commercial Dwy 2			
40(53) 137(153) 18(67) ↖ 1(49) ← 1(3) ↙ 0(4) 27(118) → 1(5) → 1(8) ↘ ↗ 2(3) ↑ 69(146) ↑ 0(1)			

LEGEND:

(X) = Study Intersection

XX(YY) = AM(PM) Peak Hour Turning Movement Volumes

FIGURE 5
EXISTING YEAR (2024)
TRAFFIC VOLUMES

TABLE 1
SUMMARY OF INTERSECTION OPERATION
EXISTING CONDITIONS

Int. #	Intersection	Traffic Control	AM Peak Hour		PM Peak Hour	
			Delay	LOS	Delay	LOS
1	Avalon Ave at Twentynine Palms Hwy (SR-62)	S	21.6	C	22.2	C
2	Avalon Ave at Palisade Dr	U	9.7	A	10.7	B
3	Twentynine Palms Hwy (SR-62) at West Commercial Access Rd	S	15.5	B	16.1	B
4	Twentynine Palms Hwy (SR-62) at East Commercial Access Rd	U	11.8	B	13.6	B
5	Twentynine Palms Hwy (SR-62) at La Contenta Rd	S	18.5	B	17.8	B
6	Palomar Ave at Yucca Trail	S	22.3	C	22.7	C
7	Yucca Trail at La Contenta Rd	U	24.9	C	14.9	B
8	Twentynine Palms Hwy (SR-62) at Commercial Driveway 1	U	11.3	B	12.3	B
9	Twentynine Palms Hwy (SR-62) at Commercial Driveway 2	U	10.9	B	15.4	C

Notes:
- Intersection operation is expressed in average delay for signalized and unsignalized intersections.

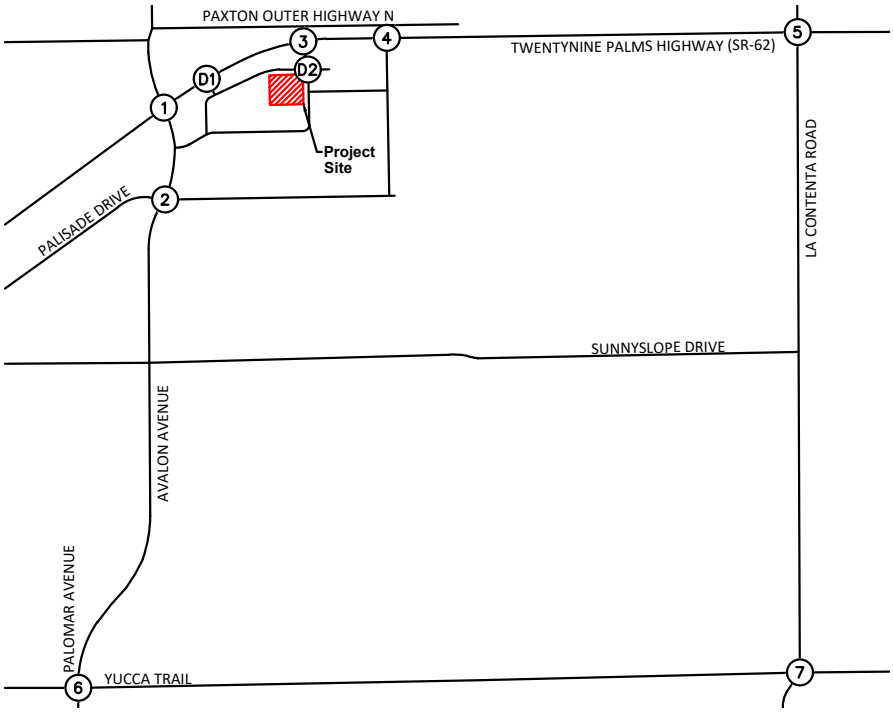
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

OPENING YEAR 2026 CONDITIONS

The Project Opening Year (the year the project would be constructed and occupied) is anticipated to be Year 2026. Based on consultation with City staff, an ambient growth rate of 2.0% per year to Opening Year 2026 was applied to existing traffic volumes. The resulting peak hour turning movement volumes at the study locations are shown in Figure 6.

Intersection Operating Conditions

Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2026 conditions. The results are shown on Table 2. Intersection analysis worksheets are provided in *Appendix C*. Review of this table indicates that, with the addition of ambient growth, all intersections would continue to operate at an acceptable Level of Service under Opening Year 2026 conditions.



NOT TO SCALE

1. Avalon Ave at Twentynine Palms Hwy (SR-62)	2. Avalon Ave at Palisade Dr	3. Twentynine Palms Hwy (SR-62) at West Commercial Access Rd	4. Twentynine Palms Hwy (SR-62) at East Commercial Access Rd
15(12) 37(24) 21(21) ← 15(37) ← 619(799) ← 38(64) 6(32) → 542(751) → 38(112) ↘ 41(111) 27(41) 45(46)	28(26) 73(154) 3(5) ← 10(11) ← 3(2) ← 26(120) 26(43) → 3(4) → 4(24) ↘ 22(12) 108(126) 63(89)	← 609(758) ← 123(187) 472(685) → 79(79) ↘ 50(131) 48(178)	← 717(942) 542(873) → 2(5) ↘ 61(52)
5. Twentynine Palms Hwy (SR-62) at La Contenta Rd	**6. Palomar Ave at Yucca Trail**	**7. Yucca Trail at La Contenta Rd**	**D1. Twentynine Palms Hwy (SR-62) at Commercial Dwy 1**
112(83) 46(22) 56(66) ← 46(75) ← 570(827) ← 20(16) 59(137) → 501(719) → 22(23) ↘ 33(24) 33(29) 16(18)	29(85) 46(137) 17(67) ← 31(53) ← 236(248) ← 58(87) 31(56) → 184(206) → 20(53) ↘ 44(48) 68(105) 157(98)	102(43) 21(27) ← 17(14) ← 179(271) 107(29) → 235(266) →	← 673(901) 571(757) → 31(53) ↘ 7(41)
D2. Twentynine Palms Hwy (SR-62) at Commercial Dwy 2			
42(55) 142(159) 19(70) ← 1(51) ← 1(3) ← 0(4) 28(123) → 1(5) → 1(8) ↘ 2(3) 72(152) 0(1)			

LEGEND:

(X) = Study Intersection

XX(YY) = AM(PM) Peak Hour Turning Movement Volumes

FIGURE 6
OPENING YEAR 2026
TRAFFIC VOLUMES

TABLE 2
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 WITHOUT PROJECT CONDITIONS

Int. #	Intersection	AM Peak Hour		PM Peak Hour	
		Delay	LOS	Delay	LOS
1	Avalon Ave at Twentynine Palms Hwy (SR-62)	21.4	C	22.4	C
2	Avalon Ave at Palisade Dr	8.6	A	11.2	B
3	Twentynine Palms Hwy (SR-62) at West Commercial Access Rd	15.5	B	16.2	B
4	Twentynine Palms Hwy (SR-62) at East Commercial Access Rd	11.6	B	13.7	B
5	Twentynine Palms Hwy (SR-62) at La Contenta Rd	18.4	B	18.1	B
6	Palomar Ave at Yucca Trail	21.2	C	23.1	C
7	Yucca Trail at La Contenta Rd	16.5	C	15.2	C
8	Twentynine Palms Hwy (SR-62) at Commercial Driveway 1	11.1	B	12.7	B
9	Twentynine Palms Hwy (SR-62) at Commercial Driveway 2	10.4	B	15.2	C

Notes:
- Intersection operation is expressed in average delay for signalized and unsignalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.

PROJECT TRAFFIC

Project Trip Generation

Peak hour trips for the proposed project were calculated using the trip generation rates published in the Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition (2021). Trip rates are based on the following ITE Land Use Category:

- LU 944 – Gasoline/Service Station

It is recognized that not all inbound and outbound trips to the proposed project will be "new" trips on the roadway system in the vicinity of the project site. Some trips to the project site will consist of "pass-by" trips -- motorists who are already traveling on the surrounding roadways from one place to another. Common pass-by trips for a gas station would be individuals who stop at the project site on the way to work, home, shopping, or school.

Based on the latest version of the ITE Trip Generation Handbook, 3rd Edition (2017), a pass-by rate of 63% in the morning peak hour and 57% in the evening peak hour were applied to the trips for the proposed land use. As the ITE Trip Generation Handbook does not provide pass-by rates for daily trips, the daily pass-by trip percentage was assumed to be the average of the morning and evening peak periods (60%).

The project is estimated to generate approximately 826 trips daily, with 46 trips in the morning peak hour (23 inbound, 23 outbound) and 72 trips in the evening peak hour (36 inbound, 36 outbound). The resulting trip rates and the project trip generation estimates are shown on Table 3.

Trip Distribution and Assignment

Project trip distribution assumptions for the project site were developed taking into account the proposed site uses, existing travel patterns, and routes to and from the freeway system. Trip distribution assumptions are shown on Figure 7.

Based on the proposed project trip distribution, project trips were assigned through the study intersections. Figure **8** shows new project trips that would be added to the study intersections. However, these trips do not include pass-by trips, which would typically be added to project driveways but not to non-adjacent study intersections; pass-by trips are assumed to be part of the existing flow of traffic until reaching the project site. Pass-by trips are shown on Figure 9 and should be added to the volumes shown on Figure 8 to determine the total project trips at each study intersection. The total project trips are shown on Figure 10.

TABLE 3
SUMMARY OF PROJECT TRIP GENERATION
YUCCA VALLEY WALMART FUEL STATION

Land Use	ITE Code	Unit	Trip Generation Rates [1]						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Gasoline/Service Station	944	Fueling Position	172.01	5.14	5.14	10.28	6.955	6.955	13.91

Land Use	Quantity	Unit	Trip Generation Estimates						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Gasoline/Service Station	12	Fueling Position	2,064	62	62	124	83	83	166
Pass-by Trips (60% Daily, 63% AM, 57% PM) [1,2]			*-1,238*	*-39*	*-39*	*-78*	*-47*	*-47*	*-94*
Net Trips			*826*	*23*	*23*	*46*	*36*	*36*	*72*
Total Project Trips			826	23	23	46	36	36	72

[1] Source: Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition

[2] Note: The Trip Generation Manual does not provide pass-by rates for daily trip generation. The daily pass-by trip percentage shown is the average of the AM and the PM pass-by trip percentages.

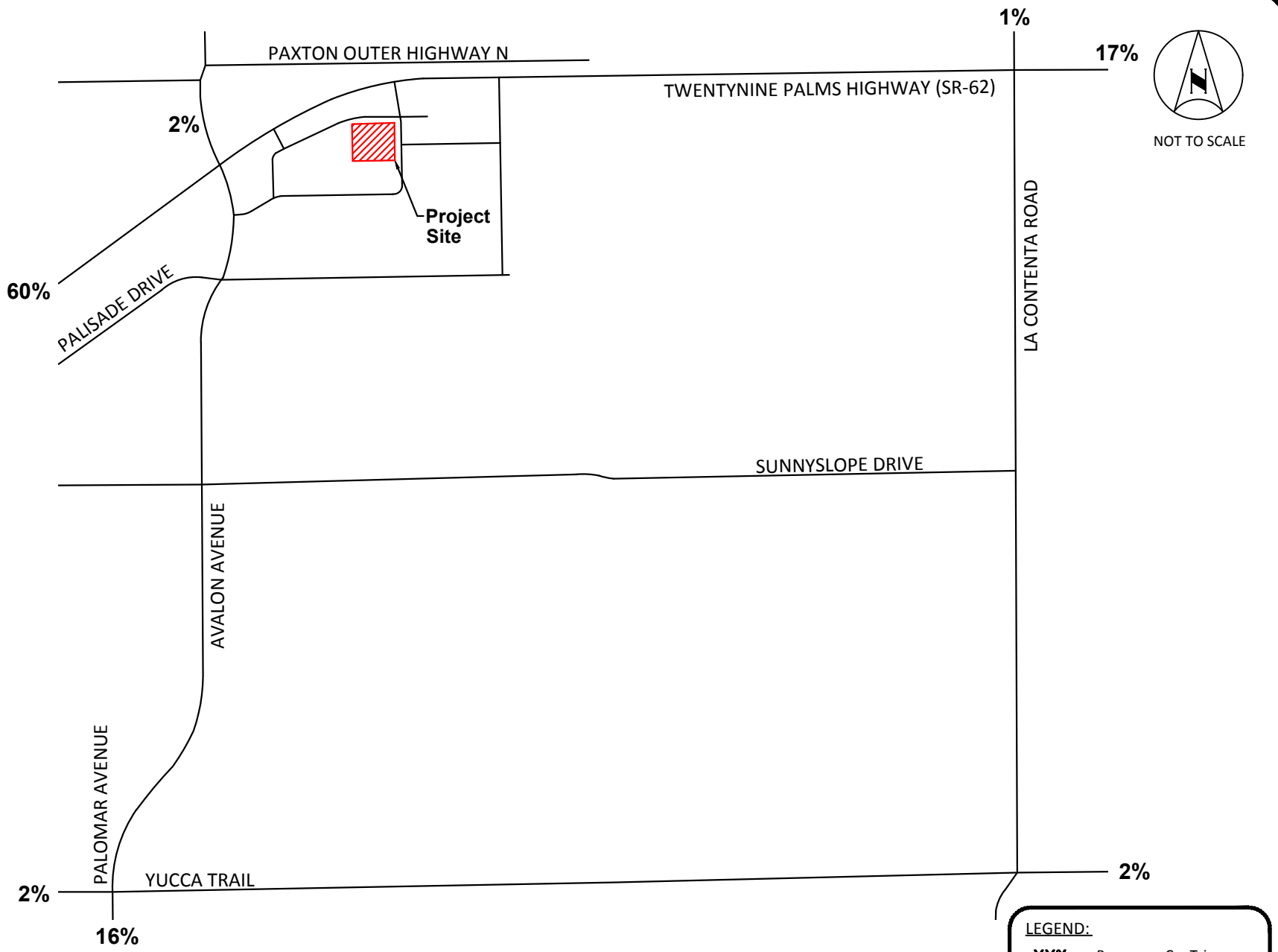
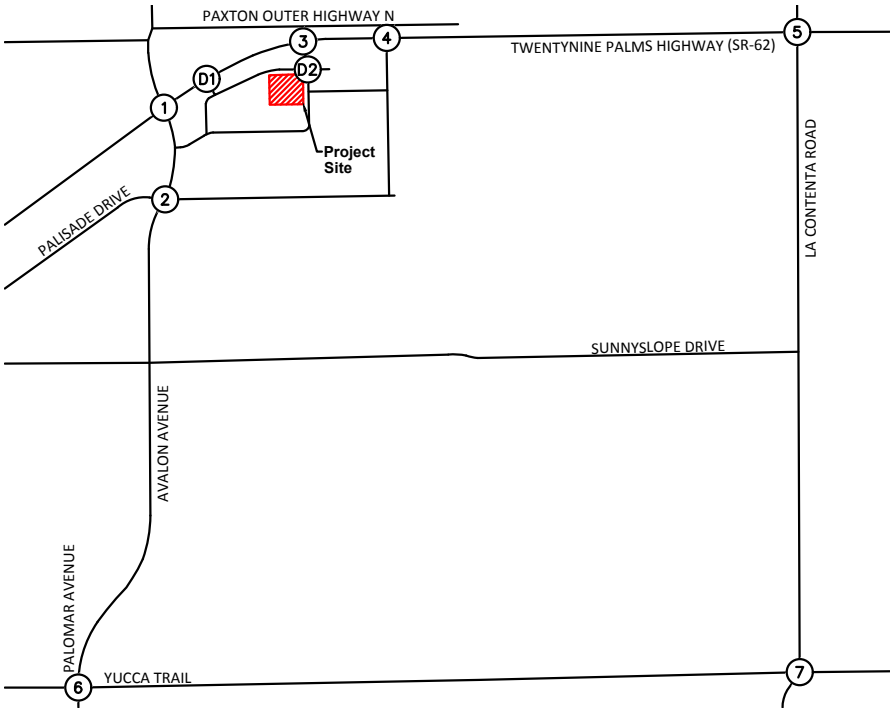
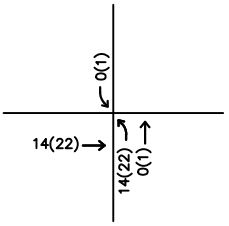
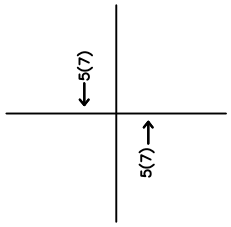
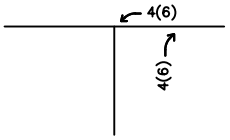
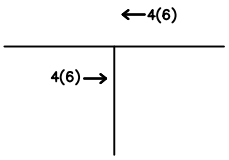
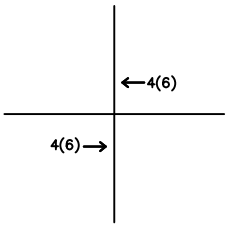
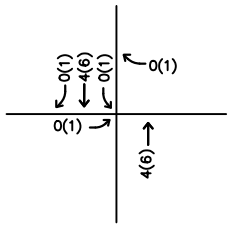
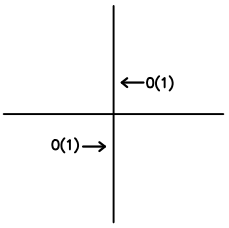
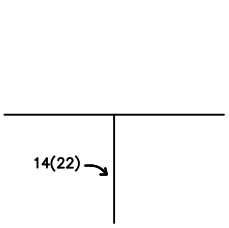


FIGURE 7
PROJECT TRIP DISTRIBUTION



NOT TO SCALE

1. Avalon Ave at Twentynine Palms Hwy (SR-62)	2. Avalon Ave at Palisade Dr	3. Twentynine Palms Hwy (SR-62) at West Commercial Access Rd	4. Twentynine Palms Hwy (SR-62) at East Commercial Access Rd
			
5. Twentynine Palms Hwy (SR-62) at La Contenta Rd	**6. Palomar Ave at Yucca Trail**	**7. Yucca Trail at La Contenta Rd**	**D1. Twentynine Palms Hwy (SR-62) at Commercial Dwy 1**
			
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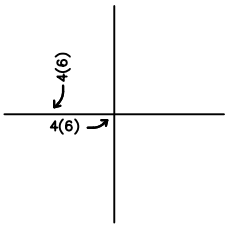
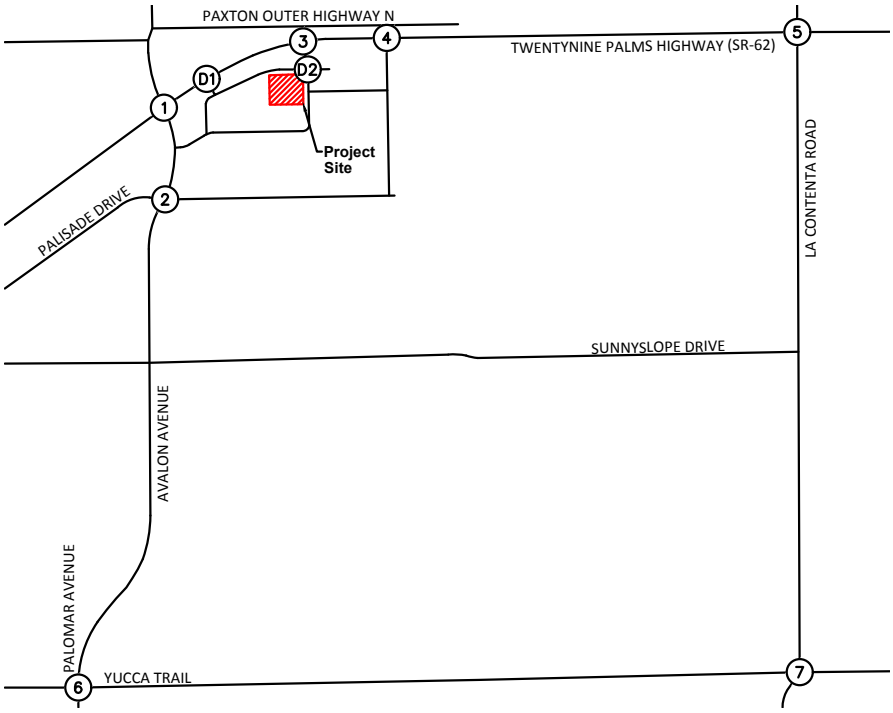
			

LEGEND:

(X) = Study Intersection

XX(YY) = AM(PM) Peak Hour Turning Movement Volumes

FIGURE 8
PROJECT-RELATED TRAFFIC VOLUMES



NOT TO SCALE

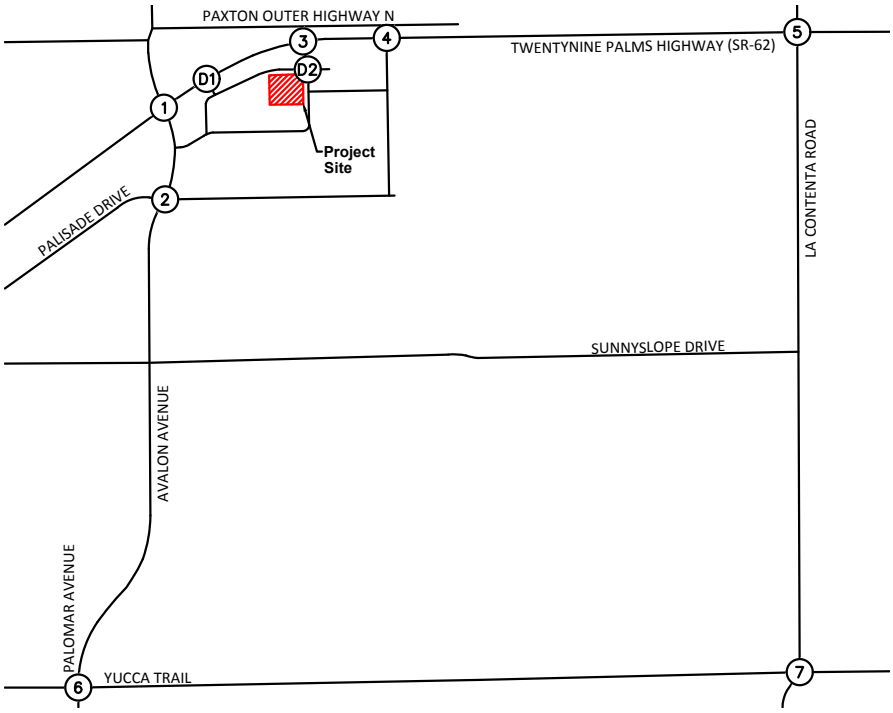
1. Avalon Ave at Twentynine Palms Hwy (SR-62)	2. Avalon Ave at Palisade Dr	3. Twentynine Palms Hwy (SR-62) at West Commercial Access Rd	4. Twentynine Palms Hwy (SR-62) at East Commercial Access Rd
		←7(–8) 7(8) –24(–29)→ 7(8) 24(29)	
5. Twentynine Palms Hwy (SR-62) at La Contenta Rd	**6. Palomar Ave at Yucca Trail**	**7. Yucca Trail at La Contenta Rd**	**D1. Twentynine Palms Hwy (SR-62) at Commercial Dwy 1**
			–24(–29)→ 24(29)
D2. Twentynine Palms Hwy (SR-62) at Commercial Dwy 2			
7(8) 31(37)			

LEGEND:

(X) = Study Intersection

XX(YY) = AM(PM) Peak Hour Turning Movement Volumes

FIGURE 9
PASS-BY TRAFFIC VOLUMES



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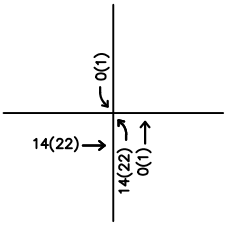	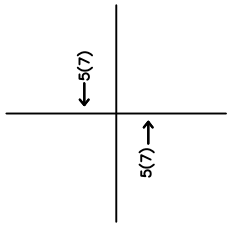	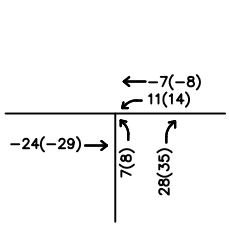	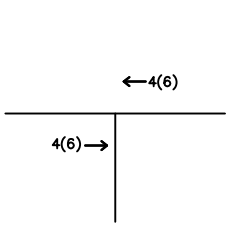
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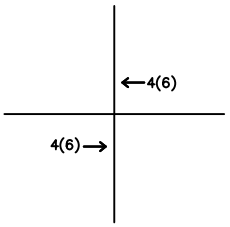
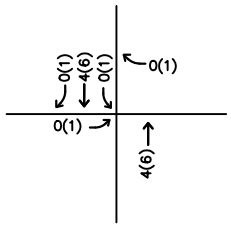
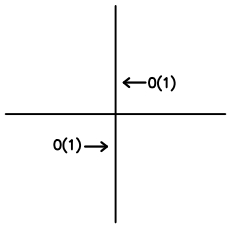
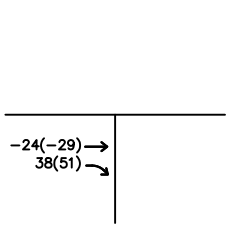
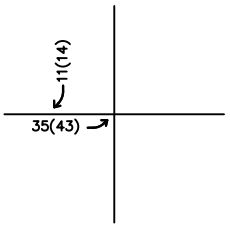
			
D2. Twentynine Palms Hwy (SR-62) at Commercial Dwy 2			
			

LEGEND:

(X) = Study Intersection

XX(YY) = AM(PM) Peak Hour Turning Movement Volumes

FIGURE 10
TOTAL PROJECT TRAFFIC VOLUMES

OPENING YEAR 2026 PLUS PROJECT CONDITIONS

Project-related traffic was added to the Opening Year 2026 traffic volumes, and the resulting morning and evening peak hour volumes are presented on Figure 11.

Intersection Operating Conditions

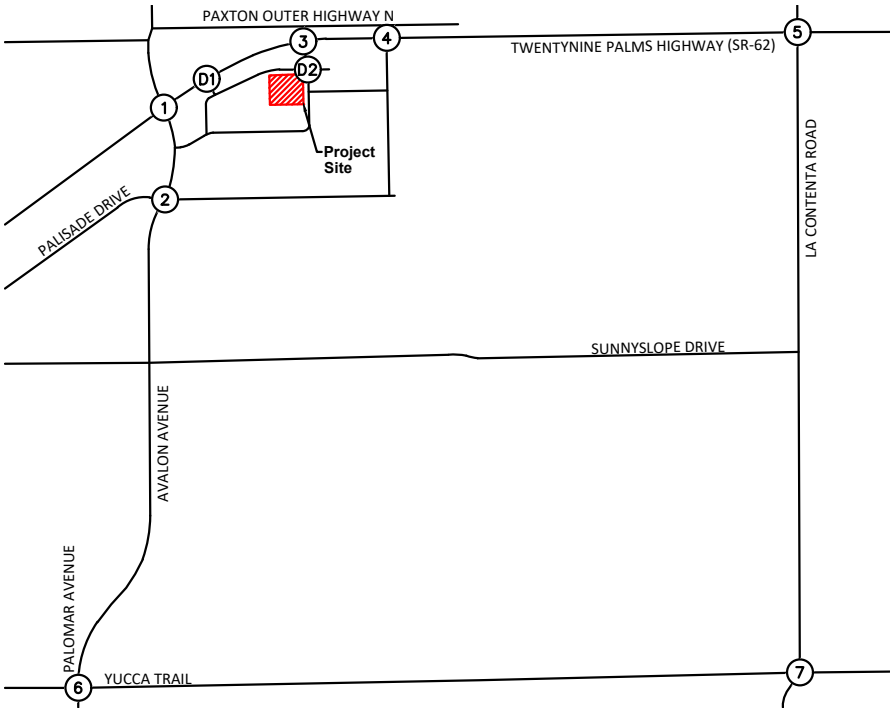
Intersection Level of Service analysis was conducted for the morning and evening peak hours for the Opening Year 2026 With Project conditions. The results of the intersection analysis are shown on Table 4. Copies of intersection analysis worksheets for this scenario are provided in *Appendix C*.

Review of this Table indicates that, with the addition of project traffic, all intersections would continue to operate at an acceptable Level of Service under Opening Year 2026 Plus Project conditions.

TABLE 4
SUMMARY OF INTERSECTION OPERATION
OPENING YEAR 2026 PLUS PROJECT CONDITIONS

Int. #	Intersection	AM Peak Hour						PM Peak Hour					
		Without Project		With Project		Change in Delay	Mitgation Req?	Without Project		With Project		Change in Delay	Mitgation Req?
		Delay	LOS	Delay	LOS			Delay	LOS	Delay	LOS		
1	Avalon Ave at Twentynine Palms Hwy (SR-62)	21.4	C	21.7	C	0.3	No	22.4	C	22.6	C	0.2	No
2	Avalon Ave at Palisade Dr	8.6	A	9.0	A	0.4	No	11.2	B	11.3	B	0.1	No
3	Twentynine Palms Hwy (SR-62) at West Commercial Access Rd	15.5	B	15.3	B	-0.2	No	16.2	B	16.2	B	0.0	No
4	Twentynine Palms Hwy (SR-62) at East Commercial Access Rd	11.6	B	11.7	B	0.1	No	13.7	B	13.7	B	0.0	No
5	Twentynine Palms Hwy (SR-62) at La Contenta Rd	18.4	B	18.4	B	0.0	No	18.1	B	18.1	B	0.0	No
6	Palomar Ave at Yucca Trail	21.2	C	21.1	C	-0.1	No	23.1	C	23.0	C	-0.1	No
7	Yucca Trail at La Contenta Rd	16.5	C	16.5	C	0.0	No	15.2	C	15.3	C	0.1	No
8	Twentynine Palms Hwy (SR-62) at Commercial Driveway 1	11.1	B	11.0	B	-0.1	No	12.7	B	12.5	B	-0.2	No
9	Twentynine Palms Hwy (SR-62) at Commercial Driveway 2	10.4	B	10.7	B	0.3	No	15.2	C	16.8	C	1.6	No

Notes:
- Intersection operation is expressed in average delay for signalized and unsignalized intersections.
- Delay values for unsignalized intersections represent the average vehicle delay on the worst (highest delay) intersection approach.



NOT TO SCALE

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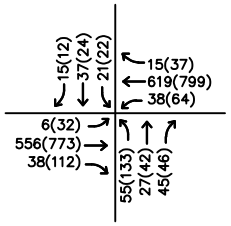	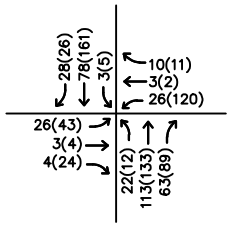	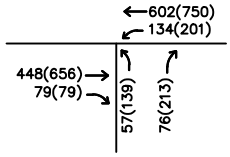	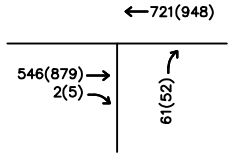
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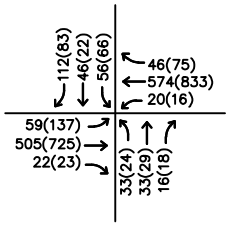	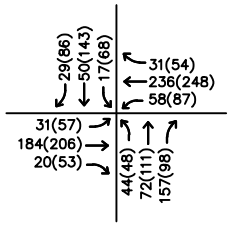	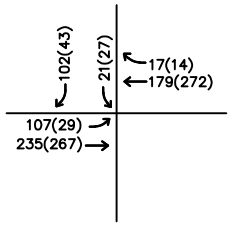	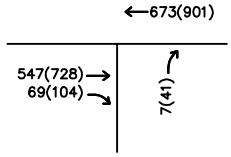
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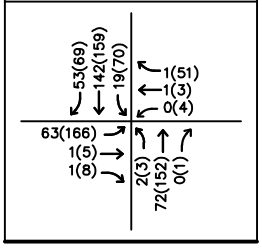
			

LEGEND:

(X) = Study Intersection

XX(YY) = AM(PM) Peak Hour Turning Movement Volumes

FIGURE 11
OPENING YEAR 2026 PLUS PROJECT TRAFFIC VOLUMES

RECOMMENDED IMPROVEMENTS

Based on the Level of Service standards and significant impact criteria discussed previously, the project-related effect would not be considered significant; therefore, no improvements are identified.

SITE ACCESS ANALYSIS

Vehicular access for the project site will be facilitated via two existing drive aisles. One driveway and one intersection along Twentynine Palms Highway allow direct access to the proposed project; the westernmost driveway is right-in, right-out only (RIRO), and the easternmost intersection is full-access.

ON-SITE QUEUING ANALYSIS

The 95th percentile queuing capacity was analyzed at the project driveways. 95th percentile queue is defined as the queue length that has only a 5% probability of being exceeded during the analysis period; in other words, the typical worst-case queue. The goal of the analysis was to demonstrate the 95th percentile queue can be contained within the provided storage without disrupting the flow of traffic at surrounding drive aisles in the Walmart parking lot. The distance per vehicle was assumed to be 20 feet, to account for the length of the passenger vehicle and spacing from the next queued vehicle. For the 95th percentile queue, the following stop-controlled egress movements were evaluated in the Opening Year Plus Project scenario:

- Northbound movements at Project Driveway 1 (Commercial Dwy 1 & Twentynine Palms Hwy (SR-62))
- Eastbound movements at Project Driveway 2 (Commercial Dwy 2 & Twentynine Palms Hwy (SR-62))

The results of the analysis are summarized below. Overall, 95th percentile queues at the project driveways will not back up into surrounding drive aisles. No impacts to circulation or to ingress / egress to surrounding properties are anticipated due to proposed conditions. See *Appendix D* for queueing analysis worksheets.

Project Driveway 1 (Commercial Dwy 1 & Twentynine Palms Hwy (SR-62)):

- Queue Storage – 65 feet (just over 3 passenger vehicles)
- Morning Peak Hour 95th Percentile Queue – 19 feet (just under 1 passenger vehicle)
- Evening Peak Hour 95th Percentile Queue – 38 feet (just under 2 passenger vehicles)

Project Driveway 2 (Commercial Dwy 2 & Twentynine Palms Hwy (SR-62)):

- Queue Storage – 140 feet (7 passenger vehicles)
- Morning Peak Hour 95th Percentile Queue – 52 feet (just under 3 passenger vehicles)
- Evening Peak Hour 95th Percentile Queue – 82 feet (just over 4 passenger vehicles)

VEHICLE MILES TRAVELED ANALYSIS

With the passage of Senate Bill (SB) 743 by the California Legislature in September 2013, VMT has become an important indicator for determining if a new development will result in a "significant transportation impact" as required by the California Environmental Quality Act (CEQA). Under SB 743, the state Office of Planning and Research (OPR) was charged with developing new guidelines for evaluating transportation impacts under CEQA in order to replace methods measuring automobile delay and Level of Service. In response to this mandate, the Office of Planning and Research proposed, and the California Natural Resources Agency adopted CEQA Guidelines Section 15064.3, which indicates that VMT exceeding an applicable threshold of significance is the most appropriate measure for evaluating a project's transportation impacts. Section 15064.3 goes on to clarify that except for projects regarding roadway capacity, "…a project's effect on automobile delay does not constitute a significant environmental impact." The OPR further elaborates on VMT metrics within the *Technical Advisory on Evaluating Transportation Impacts in CEQA* document, published in December 2018. Subsequently, the San Bernardino County, via the *San Bernardino County Transportation Impact Study Guidelines (July 2019)* has established VMT screening thresholds of significance for projects within the City.

The County's VMT guidelines provide details on appropriate screening thresholds that can be used to identify when a proposed land use project is anticipated to result in a less-than-significant impact without conducting a more detailed analysis. The County's screening criteria are as follows:

1. Projects which serve the local community and have the potential to reduce VMT
2. Projects generating less than 110 daily vehicle trips
3. Projects located within a Transit Priority Area (TPA)
4. Projects located within a low VMT generating area

Projects which serve the local community and have the potential to reduce VMT would be considered to have a less-than-significant impact. Since the project is a fuel station under 50,000 square feet, the project would screen out of VMT under qualifying local-serving criteria.

In accordance with the Technical Advisory and with San Bernardino County, it is appropriate that the proposed project be presumed to result in a less-than-significant VMT impact and support the goals of SB 743. Therefore, the Project screens out and no further VMT analysis is required.

The Town of Yucca Valley VMT Screening Justification is included as part of the Approved Traffic Consistency Analysis Memorandum in *Appendix A*.

SUMMARY OF FINDINGS AND CONCLUSIONS

- The project site is currently an existing Walmart parking lot and is bounded by drive aisles to the north and east and parking lot to the south and west.

- The project consists of the construction of a new fuel station with twelve fueling positions and a 1,556 square-foot convenience store within the northeast corner of the existing Walmart parking lot located at 58501 Twentynine Palms Highway.

- Vehicular access for the project site will be facilitated via two existing drive aisles. One driveway and one intersection along Twentynine Palms Highway allow direct access to the proposed project; the westernmost driveway is right-in, right-out only (RIRO), and the easternmost intersection is full-access.

- Morning and evening peak hour operating conditions were evaluated at the study intersections for the following study scenarios:
  - Existing Conditions
  - Opening Year 2026
  - Opening Year 2026 Plus Project

- Existing peak hour traffic counts were collected in December 2024.

- Under Existing Conditions, all study intersections currently operate at an acceptable LOS.

- Under Opening Year 2026 Conditions, all study intersections would continue to operate at an acceptable LOS.

- The project is estimated to generate approximately 826 trips daily, with 46 trips in the morning peak hour (23 inbound, 23 outbound) and 72 trips in the evening peak hour (36 inbound, 36 outbound).

- Under Opening Year 2026 Plus Project Conditions, all study intersections would continue to operate at an acceptable LOS.

- 95th percentile queues for the project driveways will not back up into surrounding drive aisles. No impacts to circulation or to ingress / egress to surrounding properties are anticipated due to proposed conditions.

- Based on the Level of Service standards and significant impact criteria, the project-related effect would not be considered significant; therefore, no improvements were identified.

- Per the County of San Bernardino's VMT guidelines, the proposed project meets the local-serving land use VMT screening criteria. Therefore, the Project screens out and no further VMT analysis is required.

APPENDIX A

APPROVED TRAFFIC CONSISTENCY
ANALYSIS MEMORANDUM

Kimley»Horn

MEMORANDUM

To: Alex Qishta, P.E.
Public Works Director, Town of Yucca Valley

From: Ryan Alvarez, P.E. (C95193)
Kimley-Horn and Associates, Inc.

Date: November 21, 2024

Subject: *Traffic Consistency Analysis Memorandum for the Proposed Walmart Fuel Station in the Town of Yucca Valley*

Kimley-Horn and Associates, Inc. is submitting this Traffic Consistency Analysis Memorandum to the Town of Yucca Valley regarding the revised traffic study scope and assumptions for the proposed Walmart Fuel Station project located in the Town of Yucca Valley. The proposed traffic scope and assumptions for the project are presented below. This memorandum also analyzes the proposed project's consistency with the development assumed in the Environmental Impact Report (EIR) for the Yucca Valley Retail Specific Plan (March 2008).

PROJECT DESCRIPTION

The applicant proposes to construct a new fuel station with twelve fueling positions and a 1,556 square-foot convenience store within the northeast corner of the existing Walmart parking lot located at 58501 Twentynine Palms Highway. The project, in its local setting, is shown on Figure 1. The project site plan is shown on Figure 2. The project is anticipated to open in 2025.

Proposed project ingress and egress will be facilitated via two existing drive aisles. One driveway and one intersection along Twentynine Palms Highway allow direct access to the proposed project; the westernmost driveway is right-in, right-out only (RIRO), and the easternmost intersection is full-access.

SCOPE OF STUDY

Project Trip Generation

Trip estimates for the proposed uses were calculated using the trip generation rates published in the Institute of Transportation Engineers (ITE) Trip Generation Manual, (11th Edition) for Gasoline/Service Station (ITE Land Use 944). Pass-by reduction factors were applied to applicable uses based on the ITE Trip Generation Handbook, (3rd Edition).

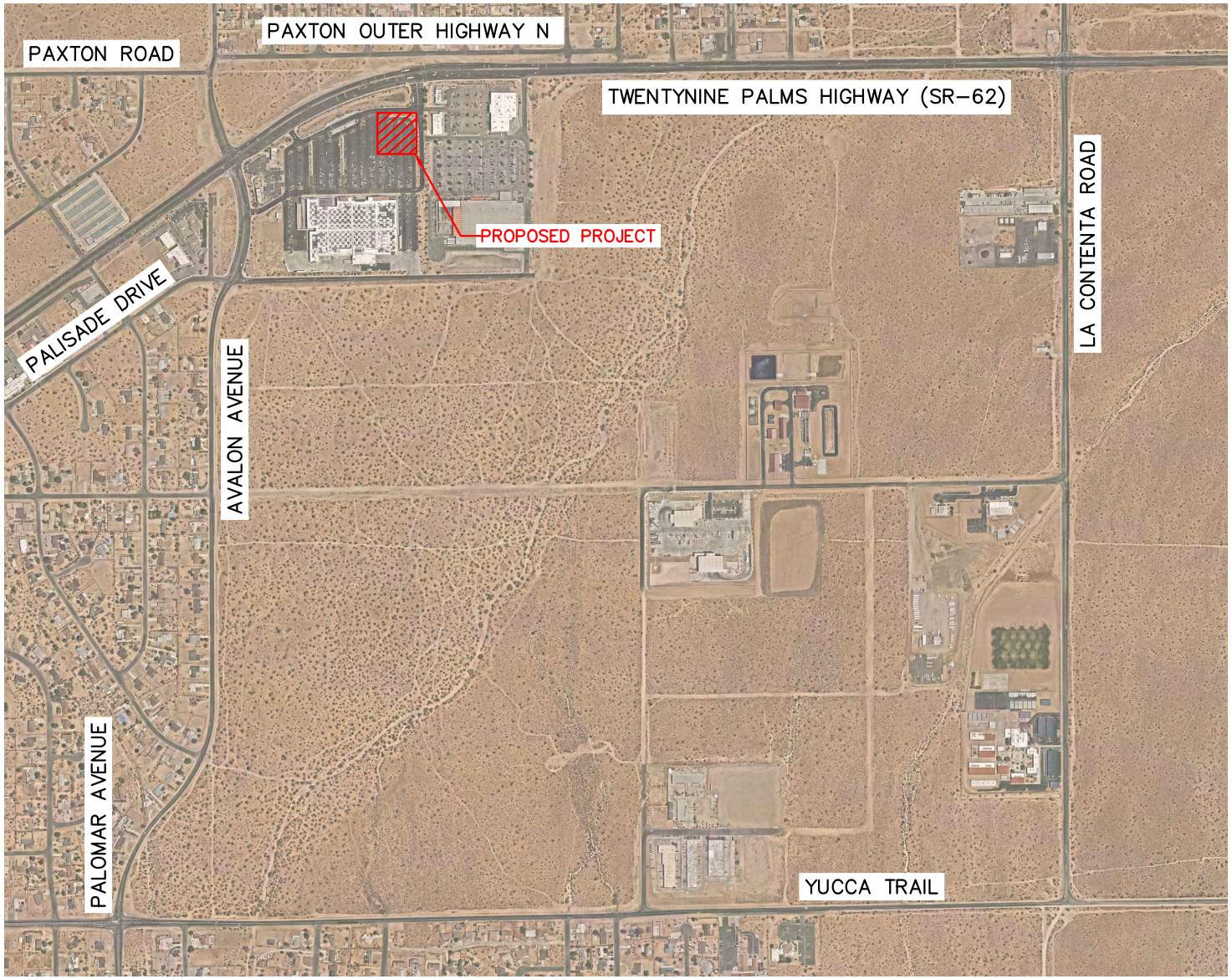
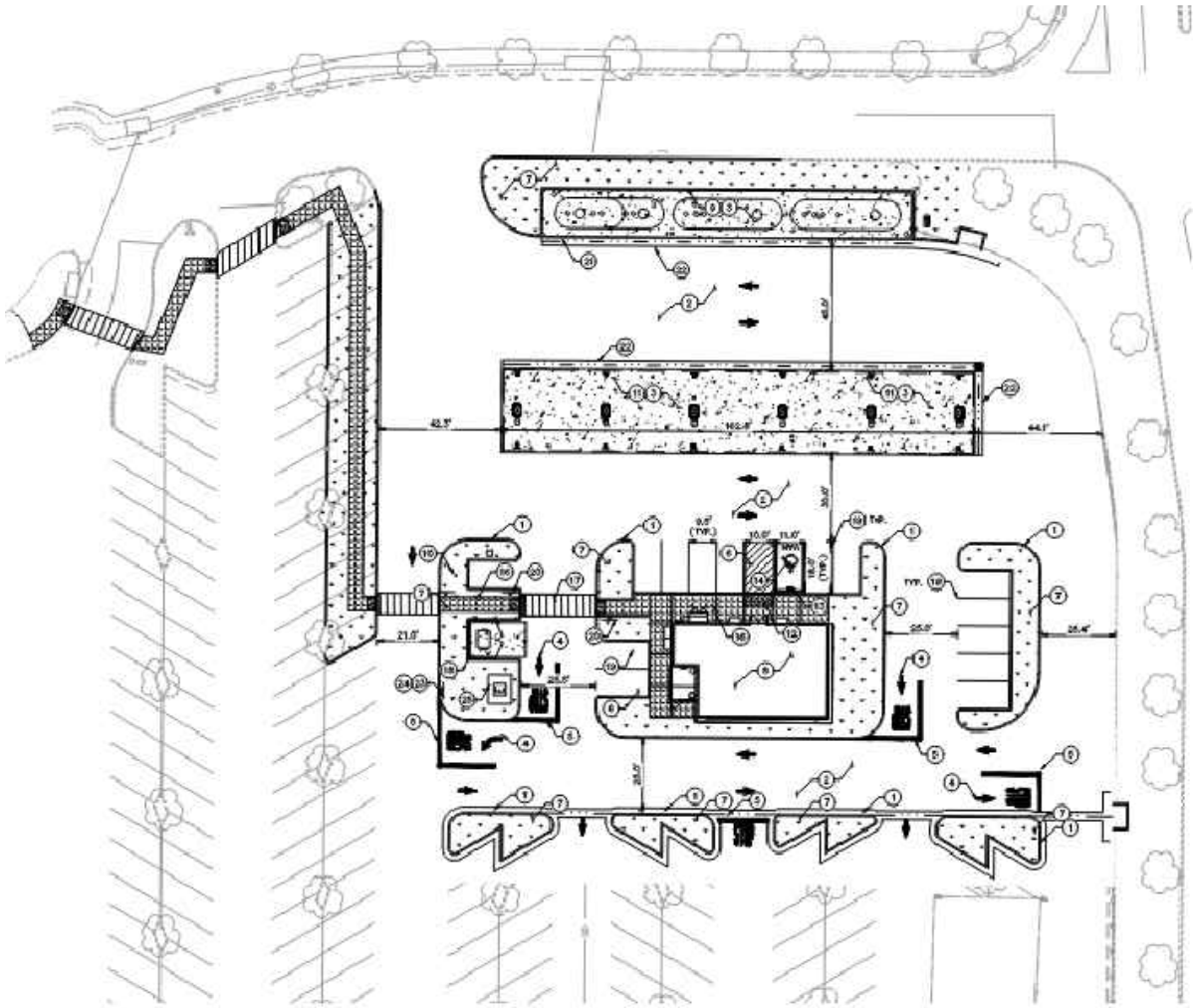


FIGURE 1
VICINITY MAP

NOT TO SCALE



WALMART FUEL STATION - STORE #1915
58501 TWENTYNINE PALMS HIGHWAY, YUCCA VALLEY, CA 92284

FIGURE 2
SITE PLAN

Kimley»Horn

Trip generation rates and the resulting trip generation estimates for the existing and proposed uses are summarized on Table 1. The project is estimated to generate approximately 826 trips daily, with 46 trips in the morning peak hour (23 inbound, 23 outbound) and 72 trips in the evening peak hour (36 inbound, 36 outbound).

Project Trip Distribution

Project distribution assumptions were developed based on existing travel patterns, and the likely origins and destinations of the proposed project. Trip distribution assumptions are shown on Figure 3.

Study Area

The following study intersections are proposed, and are shown on Figure 3:

1. Avalon Avenue & Twentynine Palms Highway (SR-62)
2. Avalon Avenue & Palisade Drive
3. Twentynine Palms Highway (SR-62) & West Commercial Access Road
4. Twentynine Palms Highway (SR-62) & East Commercial Access Road
5. Twentynine Palms Highway (SR-62) & La Contenta Road
6. Palomar Avenue & Yucca Trail
7. Yucca Trail & La Contenta Road

D1. Twentynine Palms Highway (SR-62) & Commercial Driveway 1
D2. Twentynine Palms Highway (SR-62) & Commercial Driveway 2

Study Scenarios

- Existing Conditions
- Opening Year 2025
- Opening Year 2025 with Project

Opening Year 2025 base traffic, without the addition of the proposed project traffic, will be determined by growing existing volumes by 2% per year, and by adding traffic from cumulative projects in the town to the study intersections. A list of cumulative projects, and their associated traffic, will be provided by the Town.

TABLE 1
SUMMARY OF PROJECT TRIP GENERATION
YUCCA VALLEY WALMART FUEL STATION

Land Use	ITE Code	Unit	Trip Generation Rates [1]						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Gasoline/Service Station	944	Fueling Position	172.01	5.14	5.14	10.28	6.955	6.955	13.91

Land Use	Quantity	Unit	Trip Generation Estimates						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
Gasoline/Service Station	12	Fueling Position	2,064	62	62	124	83	83	166
Pass-by Trips (60% Daily, 63% AM, 57% PM) [1,2]			*-1,238*	*-39*	*-39*	*-78*	*-47*	*-47*	*-94*
Net Trips			*826*	*23*	*23*	*46*	*36*	*36*	*72*
Total Project Trips			826	23	23	46	36	36	72

[1] Source: Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition

[2] Note: The Trip Generation Manual does not provide pass-by rates for daily trip generation. The daily pass-by trip percentage shown is the average of the AM and the PM pass-by trip percentages.

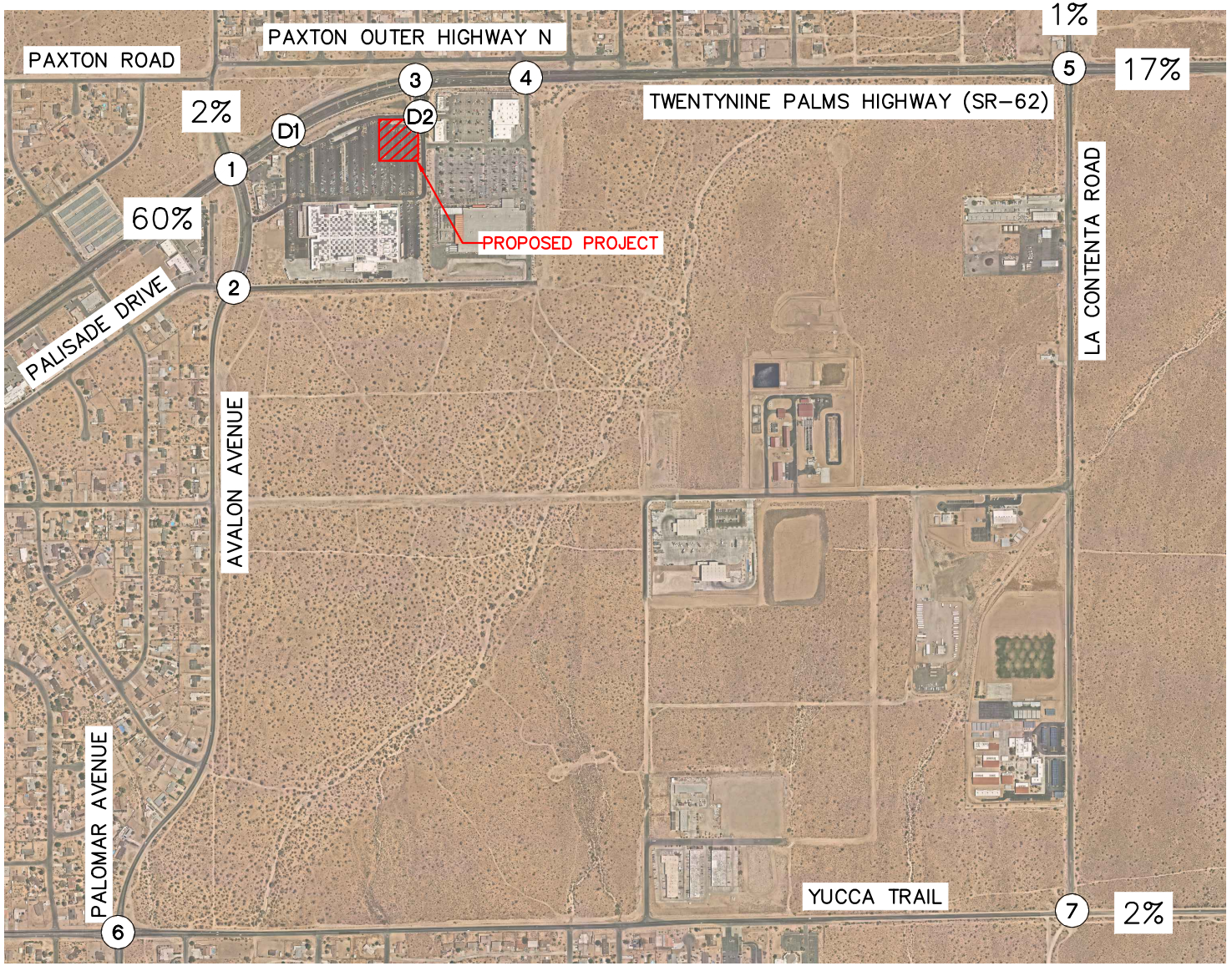


FIGURE 3
TRIP DISTRIBUTION ASSUMPTIONS

VEHICLE MILES TRAVELED (VMT) SCREENING

With the passage of Senate Bill (SB) 743 by the California Legislature in September 2013, VMT has become an important indicator for determining if a new development will result in a "significant transportation impact" as required by the California Environmental Quality Act (CEQA). Under SB 743, the state Office of Planning and Research (OPR) was charged with developing new guidelines for evaluating transportation impacts under CEQA in order to replace methods measuring automobile delay and Level of Service. In response to this mandate, the Office of Planning and Research proposed, and the California Natural Resources Agency adopted CEQA Guidelines Section 15064.3, which indicates that VMT exceeding an applicable threshold of significance is the most appropriate measure for evaluating a project's transportation impacts. Section 15064.3 goes on to clarify that except for projects regarding roadway capacity, "…a project's effect on automobile delay does not constitute a significant environmental impact." The OPR further elaborates on VMT metrics within the *Technical Advisory on Evaluating Transportation Impacts in CEQA* document, published in December 2018. Subsequently, the San Bernardino County, via the *San Bernardino County Transportation Impact Study Guidelines (July 2019)* has established VMT screening thresholds of significance for projects within the City.

The County's VMT guidelines provide details on appropriate screening thresholds that can be used to identify when a proposed land use project is anticipated to result in a less-than-significant impact without conducting a more detailed analysis. The County's screening criteria are as follows:

1. Projects which serve the local community and have the potential to reduce VMT
2. Projects generating less than 110 daily vehicle trips
3. Projects located within a Transit Priority Area (TPA)
4. Projects located within a low VMT generating area

Projects which serve the local community and have the potential to reduce VMT would be considered to have a less-than-significant impact. Since the project is a fuel station under 50,000 square feet, the project would screen out of VMT under qualifying local-serving criteria.

In accordance with the Technical Advisory and with San Bernardino County, it is appropriate that the proposed project be presumed to result in a less-than-significant VMT impact and support the goals of SB 743. No further VMT assessment is anticipated.

TRAFFIC CONSISTENCY WITH THE YUCCA VALLEY RETAIL SPECIFIC PLAN EIR

The project site is located within Yucca Valley Retail Specific Plan area in the Town of Yucca Valley. The Environmental Impact Report (EIR) for the Yucca Valley Retail Specific Plan was approved in March 2008. The approved EIR serves as an environmental review for commercial retail center development of approximately 25.51 acres in the Town of Yucca Valley. The retail center development consists of approximately 229,000 square feet of retail space composed of a major retail store, one fast-food restaurant with a drive-through, and a gas station with 12 fueling positions. The study area evaluates the following study intersections:

1. Inca Trail & Twentynine Palms Highway (SR-62)
2. Pioneertown Toad & Deer Trail & SR-62
3. Sage Avenue & SR-62 & Yucca Trail
4. Old Woman Springs Road (SR-247) & Aberdeen Drive
5. SR-247 & Buena Vista Drive
6. SR-247 & SR-62
7. Joshua Lane & Yucca Trail
8. Joshua Lane & Onaga Trail
9. Balsa Avenue & Hanford Avenue & SR-62
10. Avalon Avenue & SR-62
11. Avalon Avenue & Palisades Drive
12. Avalon Avenue & Palomar Avenue & Yucca Trail
13. Palomar Avenue & Joshua Lane
14. Yucca Mesa Road & La Contenta Road & SR-62
15. La Contenta Road & Yucca Trail
16. Sunny Vista Road & Yucca Trail
17. Sunny Vista Road & Alta Loma Drive
18. Park Boulevard & SR-62
19. Alta Loma Drive & Park Boulevard & Quail Springs Road

D1. Avalon Avenue & Driveway 1
D2. Driveway 2 & SR-62
D3. Driveway 3 & SR-62

The EIR analyzes an additional 14 intersections in comparison to the scoped study area for the proposed Walmart Fuel Station TIA. However, Intersection 4 (Twentynine Palms Highway (SR-62) & East Commercial Access Road) to be analyzed in the proposed Walmart Fuel Station TIA was not analyzed in the previous EIR.

The trip generation in the EIR is based on rates contained in the ITE *Trip Generation*, 7th Edition (2003) and pass-by percentages from the ITE *Trip Generation Handbook* (1998). An internal capture rate of 10% is applied to all land uses. Pass-by reduction factors of 56%, 17.2%, and 50% are applied to the fueling station, retail store, and fast-food restaurant w/drive-thru land uses in the EIR, respectively.

The revised scope for the proposed Walmart Fuel Station TIA lists pass-by percentages of 60% daily, 63% in the AM Peak, and 57% in the PM Peak. The EIR estimated the fueling station would generate approximately 776 trips daily, with 48 trips in the morning peak hour (24 inbound, 24 outbound), and 64 trips in the evening peak hour (32 inbound, 32 outbound). The net difference between the EIR trips versus the proposed trip generation is a net increase of 50 trips daily, 2 trips in the morning peak hour, and a net decrease of 8 trips in the evening peak hour.

In addition, the EIR calculated trip generation for the retail store with 229,000 square feet, while the existing Walmart Supercenter is 206,965 square feet. The EIR estimates 9,560 trips daily, with 143 trips in the morning peak hour (77 inbound, 66 outbound), and 863 trips in the evening peak hour (453 inbound, 411 outbound). The net difference between the EIR trips versus the existing trip generation is a net decrease of 2,373 trips daily, 263 trips in the evening peak hour, and a net increase of 193 trips in the evening peak hour.

The EIR also calculated trip generation for a 4,000 square-feet fast-food restaurant w/drive-thru. The existing two fast-food restaurants with drive-thru have a roughly combined area of 5,200 square feet. The EIE estimates 893 trips daily, with 96 trips in the morning peak hour (50 inbound, 46 outbound), and 62 trips in the evening peak hour (34 inbound, 29 outbound). The net difference between the EIR trips versus the existing trip generation is a net increase of 280 trips daily, 20 trips in the morning peak hour, and 15 trips in the evening peak hour.

The net difference in the trip generation between the EIR and the existing land uses plus the proposed gas station is a net increase of 1,229 trips daily, 260 trips in the morning peak hour, and a net decrease of 56 trips in the evening peak hour. The resulting trip generation estimates and comparisons are shown on Table 2.

The trip generation of the proposed project and existing uses plus the proposed project is not within the analyzed scope of the EIR, therefore, a LOS analysis is required for the Walmart Fuel Station.

TABLE 2
SUMMARY OF PROJECT TRIP GENERATION COMPARISON

Land Use	Quantity	Unit	Trip Generation Estimates						
			Daily	AM Peak Hour			PM Peak Hour		
				In	Out	Total	In	Out	Total
EIR USE[1]									
Retail Store	229.000	KSF	12,829	102	90	192	603	556	1,159
Sub-Total after Pass-by & Internal Trips			9,560	77	66	143	453	411	863
Fueling Station	12	Fueling Position	1,953	60	60	121	80	80	161
Sub-Total after Pass-by & Internal Trips			774	24	24	48	32	32	64
Fast-Food Rest w/ Drive-thru	4.000	KSF	1,984	108	104	212	72	67	139
Sub-Total after Pass-by & Internal Trips			893	50	46	96	34	29	62
Total Net Trips			11,226	150	136	287	518	471	989
EXISTING USE[2]									
Free Standing Discount Superstore	206.965	KSF	10,456	216	169	385	439	457	896
Fast-Food Restaurant w/ Drive-thru	2.868	KSF	1,341	65	63	128	49	45	94
Pass-by Trips (52.5% Daily, 50% AM, 55% PM)[2,3]			-704	-33	-32	-65	-27	-25	-52
Sub-Total			637	32	31	63	22	20	42
Fast-Food Restaurant w/ Drive-thru	2.415	KSF	1,129	55	53	108	41	38	79
Pass-by Trips (52.5% Daily, 50% AM, 55% PM)[2,3]			-593	-28	-27	-55	-23	-21	-44
Sub-Total			536	27	26	53	18	17	35
Total Existing Trips			11,629	275	226	501	479	494	973
PROPOSED USE[2]									
Gasoline/Service Station	12	Fueling Position	2,064	62	62	124	83	83	166
Pass-by Trips (60% Daily, 63% AM, 57% PM)[2,3]			-1,238	-39	-39	-78	-47	-47	-94
Sub-Total			826	23	23	46	36	36	72
Total Existing & Proposed Trips			12,455	298	249	547	515	530	1,045
NET DIFFERENCE (Existing & Proposed Use Minus EIR Use)			1,229	148	113	260	-3	59	56

[1] Source: Yucca Valley Retail Specific Plan Draft Environmental Impact Report (July 2007).

[2] Source: Institute of Transportation Engineers (ITE) Trip Generation Manual, 11th Edition

[3] Note: The Trip Generation Manual does not provide pass-by rates for daily trip generation. The daily pass-by trip percentage shown is the average of the AM and the PM pass-by trip percentages.

FINDINGS AND CONCLUSIONS

Based on the project trip generation for the existing and proposed land uses in comparison with the Yucca Valley Retail Specific Plan EIR, a Level of Service (LOS) analysis is required for the proposed project. The proposed project would screen out of VMT based on the project qualifying as local serving to the community. As such, the proposed project would be presumed to have a less-than-significant impact. Therefore, no further VMT analysis is required for the proposed project.

Please contact me if you have any questions or comments.

APPROVED:

By:

_____.

Alex Qishta

Public Works Director, Town of Yucca Valley

APPENDIX B

TRAFFIC COUNT DATA SHEETS

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Yucca Valley
N/S: Avalon Avenue
E/W: SR-62
Weather: Clear

File Name : 01_YCV_Ava_SR62 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	Avalon Avenue Southbound				SR-62 Westbound				Avalon Avenue Northbound				SR-62 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	10	7	4	21	5	95	4	104	5	3	8	16	1	138	5	144	285
07:15 AM	5	5	3	13	7	109	7	123	7	11	5	23	0	103	11	114	273
07:30 AM	9	9	4	22	14	107	2	123	11	8	11	30	0	110	2	112	287
07:45 AM	7	6	4	17	9	162	3	174	10	2	9	21	2	150	13	165	377
Total	31	27	15	73	35	473	16	524	33	24	33	90	3	501	31	535	1222
08:00 AM	0	5	4	9	7	122	2	131	9	5	9	23	1	133	5	139	302
08:15 AM	4	10	2	16	13	136	3	152	7	2	12	21	3	111	9	123	312
08:30 AM	6	12	5	23	12	170	4	186	9	5	8	22	0	121	7	128	359
08:45 AM	10	9	3	22	5	167	5	177	14	14	14	42	2	156	16	174	415
Total	20	36	14	70	37	595	14	646	39	26	43	108	6	521	37	564	1388
Grand Total	51	63	29	143	72	1068	30	1170	72	50	76	198	9	1022	68	1099	2610
Apprch %	35.7	44.1	20.3		6.2	91.3	2.6		36.4	25.3	38.4		0.8	93	6.2		
Total %	2	2.4	1.1	5.5	2.8	40.9	1.1	44.8	2.8	1.9	2.9	7.6	0.3	39.2	2.6	42.1	

	Avalon Avenue Southbound				SR-62 Westbound				Avalon Avenue Northbound				SR-62 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	5	4	9	7	122	2	131	9	5	9	23	1	133	5	139	302
08:15 AM	4	10	2	16	**13**	136	3	152	7	2	12	21	**3**	111	9	123	312
08:30 AM	6	**12**	**5**	**23**	12	**170**	4	**186**	9	5	8	22	0	121	7	128	359
08:45 AM	**10**	9	3	22	5	167	**5**	177	**14**	**14**	**14**	**42**	2	**156**	**16**	**174**	**415**
Total Volume	20	36	14	70	37	595	14	646	39	26	43	108	6	521	37	564	1388
% App. Total	28.6	51.4	20		5.7	92.1	2.2		36.1	24.1	39.8		1.1	92.4	6.6		
PHF	.500	.750	.700	.761	.712	.875	.700	.868	.696	.464	.768	.643	.500	.835	.578	.810	.836

Counts Unlimited, Inc.
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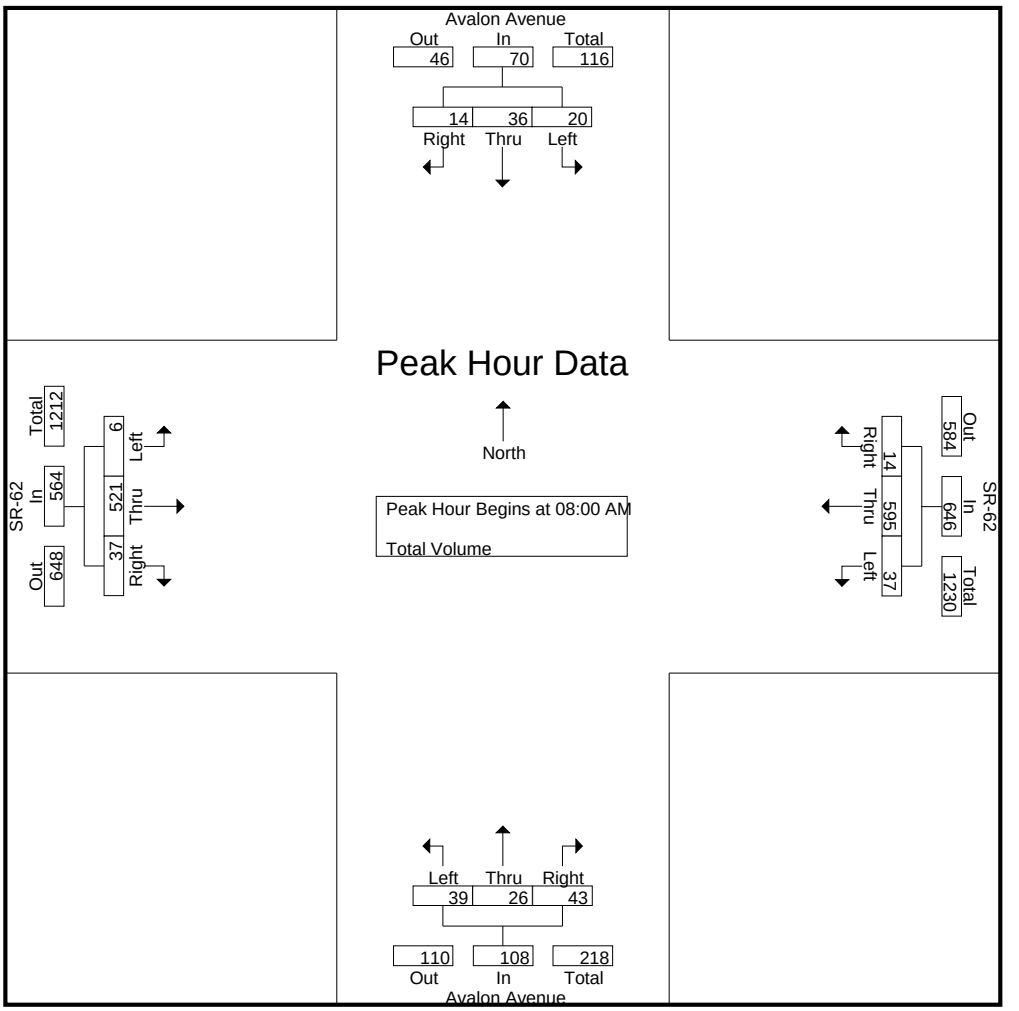
City of Yucca Valley
N/S: Avalon Avenue
E/W: SR-62
Weather: Clear

File Name : 01_YCV_Ava_SR62 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				08:00 AM				08:00 AM				08:00 AM			
+0 mins.	**10**	7	**4**	21	7	122	2	131	9	5	9	23	1	133	5	139
+15 mins.	5	5	3	13	**13**	136	3	152	7	2	12	21	**3**	111	9	123
+30 mins.	9	**9**	4	**22**	12	**170**	4	**186**	9	5	8	22	0	121	7	128
+45 mins.	7	6	4	17	5	167	**5**	177	**14**	**14**	**14**	**42**	2	**156**	**16**	**174**
Total Volume	31	27	15	73	37	595	14	646	39	26	43	108	6	521	37	564
% App. Total	42.5	37	20.5		5.7	92.1	2.2		36.1	24.1	39.8		1.1	92.4	6.6	
PHF	.775	.750	.938	.830	.712	.875	.700	.868	.696	.464	.768	.643	.500	.835	.578	.810

Counts Unlimited, Inc.
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City of Yucca Valley
N/S: Avalon Avenue
E/W: SR-62
Weather: Clear

File Name : 01_YCV_Ava_SR62 PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	Avalon Avenue Southbound				SR-62 Westbound				Avalon Avenue Northbound				SR-62 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	5	4	6	15	15	170	15	200	26	18	14	58	8	169	27	204	477
04:15 PM	3	6	5	14	23	194	5	222	22	13	12	47	5	171	26	202	485
04:30 PM	3	9	3	15	11	181	12	204	28	5	9	42	8	184	22	214	475
04:45 PM	6	7	0	13	18	205	10	233	20	6	11	37	10	178	30	218	501
Total	17	26	14	57	67	750	42	859	96	42	46	184	31	702	105	838	1938
05:00 PM	8	1	4	13	10	188	9	207	37	15	12	64	8	189	30	227	511
05:15 PM	6	10	3	19	24	182	8	214	20	7	9	36	5	160	28	193	462
05:30 PM	7	1	1	9	10	145	6	161	37	11	9	57	8	172	21	201	428
05:45 PM	7	8	1	16	13	150	7	170	12	10	8	30	6	172	17	195	411
Total	28	20	9	57	57	665	30	752	106	43	38	187	27	693	96	816	1812
Grand Total	45	46	23	114	124	1415	72	1611	202	85	84	371	58	1395	201	1654	3750
Apprch %	39.5	40.4	20.2		7.7	87.8	4.5		54.4	22.9	22.6		3.5	84.3	12.2		
Total %	1.2	1.2	0.6	3	3.3	37.7	1.9	43	5.4	2.3	2.2	9.9	1.5	37.2	5.4	44.1	

	Avalon Avenue Southbound				SR-62 Westbound				Avalon Avenue Northbound				SR-62 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	3	6	**5**	14	**23**	194	5	222	22	13	**12**	47	5	171	26	202	485
04:30 PM	3	**9**	3	**15**	11	181	**12**	204	28	5	9	42	8	184	22	214	475
04:45 PM	6	7	0	13	18	**205**	10	**233**	20	6	11	37	**10**	178	**30**	218	501
05:00 PM	**8**	1	4	13	10	188	9	207	**37**	**15**	12	**64**	8	**189**	30	**227**	**511**
Total Volume	20	23	12	55	62	768	36	866	107	39	44	190	31	722	108	861	1972
% App. Total	36.4	41.8	21.8		7.2	88.7	4.2		56.3	20.5	23.2		3.6	83.9	12.5		
PHF	.625	.639	.600	.917	.674	.937	.750	.929	.723	.650	.917	.742	.775	.955	.900	.948	.965

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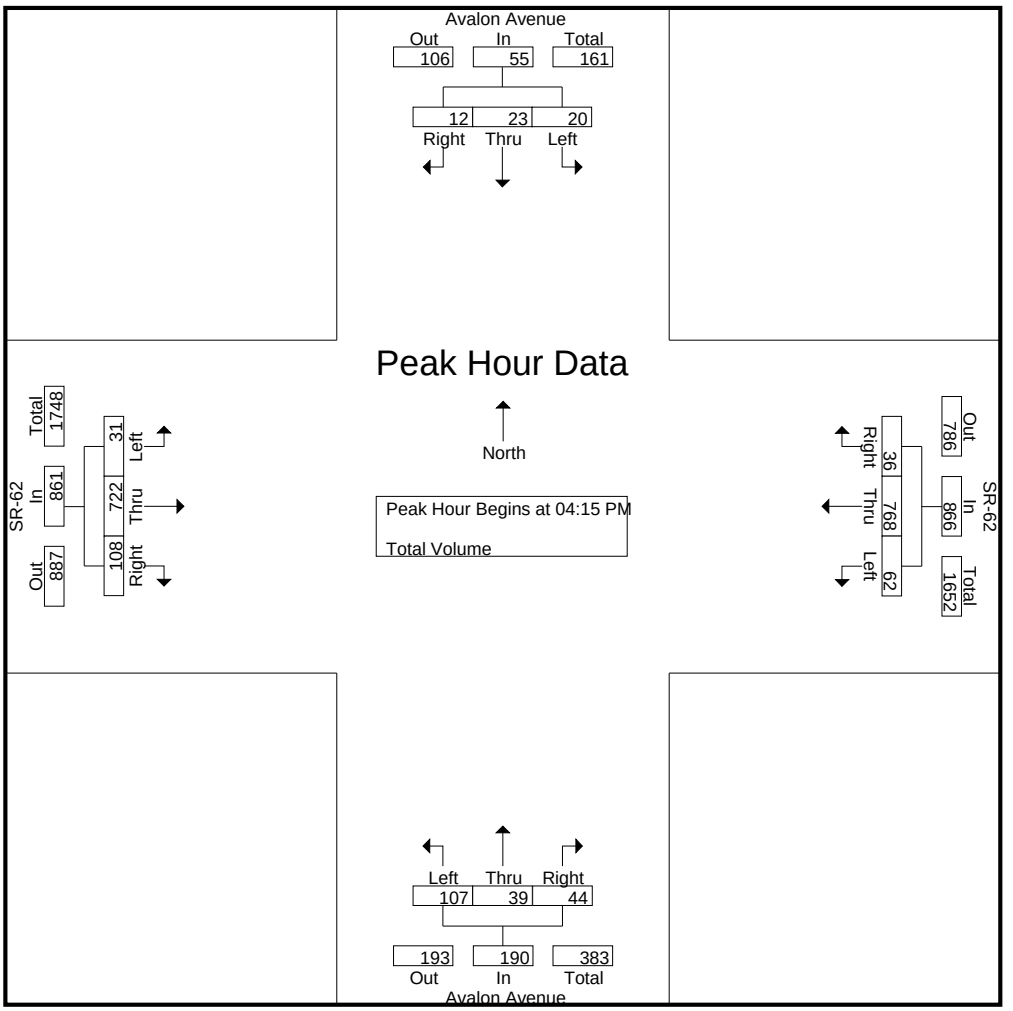
City of Yucca Valley
N/S: Avalon Avenue
E/W: SR-62
Weather: Clear

File Name : 01_YCV_Ava_SR62 PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM				04:15 PM				04:45 PM				04:15 PM			
+0 mins.	3	9	3	15	**23**	194	5	222	20	6	11	37	5	171	26	202
+15 mins.	6	7	0	13	11	181	**12**	204	**37**	**15**	**12**	**64**	8	184	22	214
+30 mins.	**8**	1	**4**	13	18	**205**	10	**233**	20	7	9	36	**10**	178	**30**	218
+45 mins.	6	**10**	3	**19**	10	188	9	207	37	11	9	57	8	**189**	30	**227**
Total Volume	23	27	10	60	62	768	36	866	114	39	41	194	31	722	108	861
% App. Total	38.3	45	16.7		7.2	88.7	4.2		58.8	20.1	21.1		3.6	83.9	12.5	
PHF	.719	.675	.625	.789	.674	.937	.750	.929	.770	.650	.854	.758	.775	.955	.900	.948

Counts Unlimited, Inc.
PO Box 1178
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(951) 268-6268

City of Yucca Valley
N/S: Avalon Avenue
E/W: Palisade Drive
Weather: Clear

File Name : 02_YCV_Ava_Pali AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	Avalon Avenue Southbound				Palisade Drive Westbound				Avalon Avenue Northbound				Palisade Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	2	12	2	16	5	0	1	6	2	18	11	31	1	1	0	2	55
07:15 AM	1	11	5	17	6	1	7	14	2	13	8	23	0	1	0	1	55
07:30 AM	2	23	3	28	6	0	2	8	3	19	9	31	1	1	0	2	69
07:45 AM	2	12	10	24	5	1	3	9	9	15	15	39	0	2	1	3	75
Total	7	58	20	85	22	2	13	37	16	65	43	124	2	5	1	8	254
08:00 AM	0	12	5	17	7	0	2	9	5	18	10	33	7	1	0	8	67
08:15 AM	1	19	8	28	5	0	0	5	1	16	16	33	6	0	1	7	73
08:30 AM	0	26	6	32	6	0	4	10	9	22	17	48	2	1	2	5	95
08:45 AM	2	13	8	23	7	3	4	14	6	48	18	72	10	1	1	12	121
Total	3	70	27	100	25	3	10	38	21	104	61	186	25	3	4	32	356
Grand Total	10	128	47	185	47	5	23	75	37	169	104	310	27	8	5	40	610
Apprch %	5.4	69.2	25.4		62.7	6.7	30.7		11.9	54.5	33.5		67.5	20	12.5		
Total %	1.6	21	7.7	30.3	7.7	0.8	3.8	12.3	6.1	27.7	17	50.8	4.4	1.3	0.8	6.6	

	Avalon Avenue Southbound				Palisade Drive Westbound				Avalon Avenue Northbound				Palisade Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	0	12	5	17	**7**	0	2	9	5	18	10	33	7	**1**	0	8	67
08:15 AM	1	19	**8**	28	5	0	0	5	1	16	16	33	6	0	1	7	73
08:30 AM	0	**26**	6	**32**	6	0	**4**	10	**9**	22	17	48	2	1	**2**	5	95
08:45 AM	**2**	13	8	23	7	**3**	4	**14**	6	**48**	**18**	**72**	**10**	1	1	**12**	**121**
Total Volume	3	70	27	100	25	3	10	38	21	104	61	186	25	3	4	32	356
% App. Total	3	70	27		65.8	7.9	26.3		11.3	55.9	32.8		78.1	9.4	12.5		
PHF	.375	.673	.844	.781	.893	.250	.625	.679	.583	.542	.847	.646	.625	.750	.500	.667	.736

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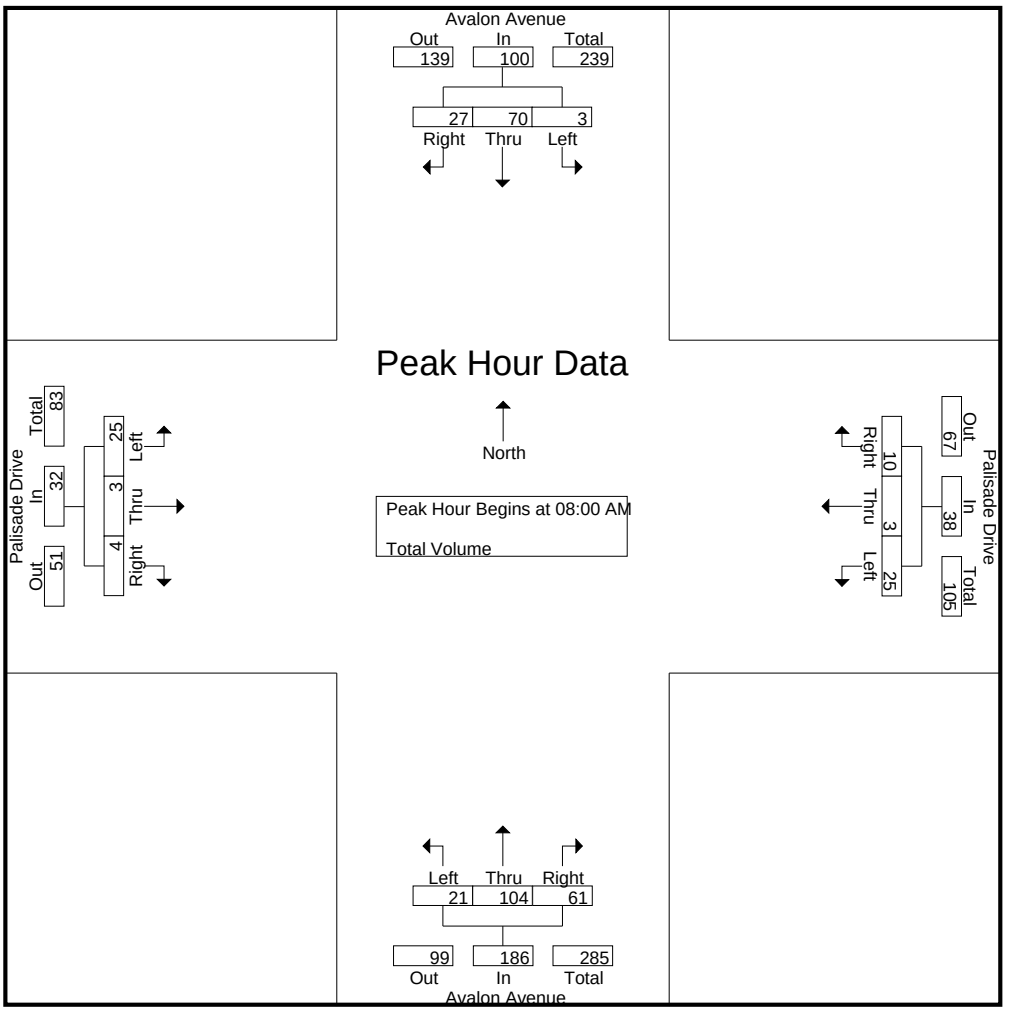
City of Yucca Valley
N/S: Avalon Avenue
E/W: Palisade Drive
Weather: Clear

File Name : 02_YCV_Ava_Pali AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				07:15 AM				08:00 AM				08:00 AM			
+0 mins.	**2**	12	**10**	24	6	**1**	**7**	**14**	5	18	10	33	7	**1**	0	8
+15 mins.	0	12	5	17	6	0	2	8	1	16	16	33	6	0	1	7
+30 mins.	1	19	8	28	5	1	3	9	**9**	22	17	48	2	1	**2**	5
+45 mins.	0	**26**	6	**32**	**7**	0	2	9	6	**48**	**18**	**72**	**10**	1	1	**12**
Total Volume	3	69	29	101	24	2	14	40	21	104	61	186	25	3	4	32
% App. Total	3	68.3	28.7		60	5	35		11.3	55.9	32.8		78.1	9.4	12.5	
PHF	.375	.663	.725	.789	.857	.500	.500	.714	.583	.542	.847	.646	.625	.750	.500	.667

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City of Yucca Valley
N/S: Avalon Avenue
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Weather: Clear

File Name : 02_YCV_Ava_Pali PM
Site Code : 241081
Start Date : 12/11/2024
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Groups Printed- Total Volume

	Avalon Avenue Southbound				Palisade Drive Westbound				Avalon Avenue Northbound				Palisade Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	2	29	6	37	20	1	3	24	3	34	24	61	12	2	5	19	141
04:15 PM	0	32	7	39	26	0	5	31	1	36	23	60	9	0	5	14	144
04:30 PM	2	35	7	44	35	0	1	36	5	28	22	55	13	1	6	20	155
04:45 PM	1	52	5	58	34	1	2	37	3	23	17	43	7	1	7	15	153
Total	5	148	25	178	115	2	11	128	12	121	86	219	41	4	23	68	593
05:00 PM	2	24	4	30	21	2	7	30	0	28	23	51	12	6	4	22	133
05:15 PM	1	33	9	43	23	0	5	28	3	23	15	41	2	3	3	8	120
05:30 PM	0	33	3	36	23	1	3	27	1	35	15	51	8	1	3	12	126
05:45 PM	3	31	2	36	11	2	0	13	1	20	18	39	4	0	3	7	95
Total	6	121	18	145	78	5	15	98	5	106	71	182	26	10	13	49	474
Grand Total	11	269	43	323	193	7	26	226	17	227	157	401	67	14	36	117	1067
Apprch %	3.4	83.3	13.3		85.4	3.1	11.5		4.2	56.6	39.2		57.3	12	30.8		
Total %	1	25.2	4	30.3	18.1	0.7	2.4	21.2	1.6	21.3	14.7	37.6	6.3	1.3	3.4	11	

	Avalon Avenue Southbound				Palisade Drive Westbound				Avalon Avenue Northbound				Palisade Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	**2**	29	6	37	20	**1**	3	24	3	34	**24**	**61**	12	**2**	5	19	141
04:15 PM	0	32	**7**	39	26	0	**5**	31	1	**36**	23	60	9	0	5	14	144
04:30 PM	2	35	7	44	**35**	0	1	36	**5**	28	22	55	**13**	1	6	**20**	**155**
04:45 PM	1	**52**	5	**58**	34	1	2	**37**	3	23	17	43	7	1	**7**	15	153
Total Volume	5	148	25	178	115	2	11	128	12	121	86	219	41	4	23	68	593
% App. Total	2.8	83.1	14		89.8	1.6	8.6		5.5	55.3	39.3		60.3	5.9	33.8		
PHF	.625	.712	.893	.767	.821	.500	.550	.865	.600	.840	.896	.898	.788	.500	.821	.850	.956

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City of Yucca Valley
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File Name : 02_YCV_Ava_Pali PM
Site Code : 241081
Start Date : 12/11/2024
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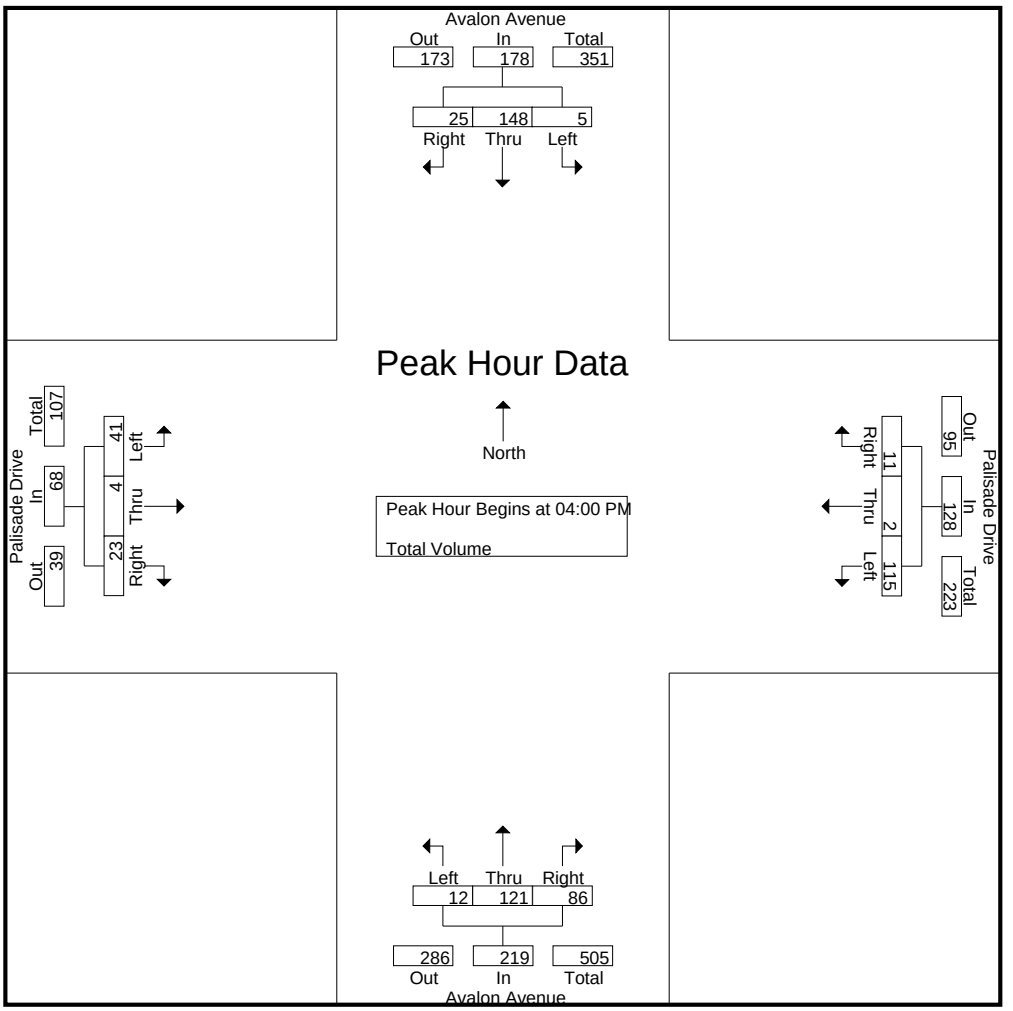

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:15 PM				04:00 PM				04:15 PM			
+0 mins.	**2**	29	6	37	26	0	5	31	3	34	**24**	**61**	9	0	5	14
+15 mins.	0	32	**7**	39	**35**	0	1	36	1	**36**	23	60	**13**	1	6	20
+30 mins.	2	35	7	44	34	1	2	**37**	**5**	28	22	55	7	1	**7**	15
+45 mins.	1	**52**	5	**58**	21	**2**	**7**	30	3	23	17	43	12	**6**	4	**22**
Total Volume	5	148	25	178	116	3	15	134	12	121	86	219	41	8	22	71
% App. Total	2.8	83.1	14		86.6	2.2	11.2		5.5	55.3	39.3		57.7	11.3	31	
PHF	.625	.712	.893	.767	.829	.375	.536	.905	.600	.840	.896	.898	.788	.333	.786	.807

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City of Yucca Valley
N/S: West Commercial Access Road
E/W: SR-62
Weather: Clear

File Name : 03_YCV_W CAR_SR62 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	SR-62 Westbound			West Commercial Access Road Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	13	83	96	8	10	18	132	12	144	258
07:15 AM	14	112	126	9	4	13	112	7	119	258
07:30 AM	15	106	121	8	7	15	117	12	129	265
07:45 AM	24	165	189	9	10	19	136	16	152	360
Total	66	466	532	34	31	65	497	47	544	1141
08:00 AM	18	115	133	10	8	18	114	19	133	284
08:15 AM	35	136	171	14	10	24	93	12	105	300
08:30 AM	22	174	196	14	13	27	119	16	135	358
08:45 AM	43	161	204	10	15	25	128	29	157	386
Total	118	586	704	48	46	94	454	76	530	1328
Grand Total	184	1052	1236	82	77	159	951	123	1074	2469
Apprch %	14.9	85.1		51.6	48.4		88.5	11.5		
Total %	7.5	42.6	50.1	3.3	3.1	6.4	38.5	5	43.5	

	SR-62 Westbound			West Commercial Access Road Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 08:00 AM										
08:00 AM	18	115	133	10	8	18	114	19	133	284
08:15 AM	35	136	171	**14**	10	24	93	12	105	300
08:30 AM	22	**174**	196	14	13	**27**	119	16	135	358
08:45 AM	**43**	161	**204**	10	**15**	25	**128**	**29**	**157**	**386**
Total Volume	118	586	704	48	46	94	454	76	530	1328
% App. Total	16.8	83.2		51.1	48.9		85.7	14.3		
PHF	.686	.842	.863	.857	.767	.870	.887	.655	.844	.860

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City of Yucca Valley
N/S: West Commercial Access Road
E/W: SR-62
Weather: Clear

File Name : 03_YCV_W CAR_SR62 AM
Site Code : 241081
Start Date : 12/11/2024
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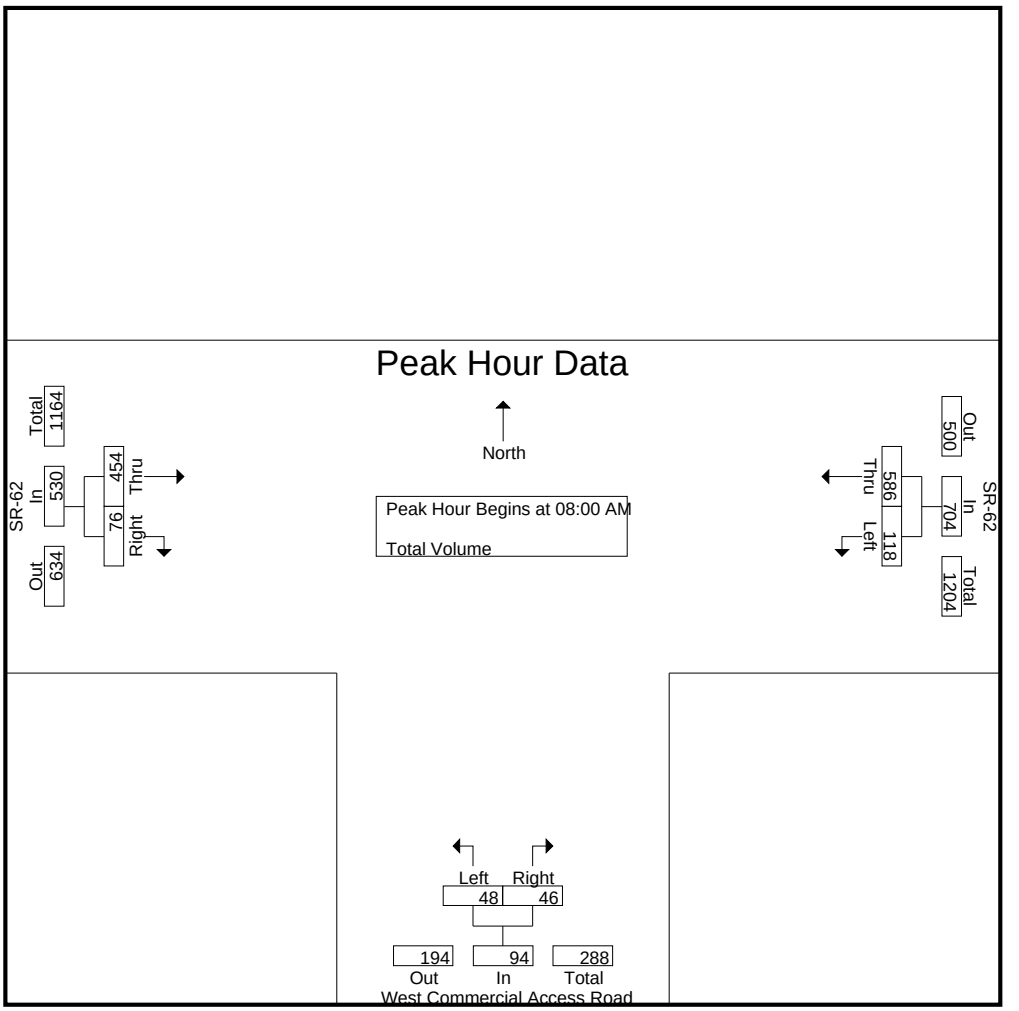

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM			08:00 AM			07:00 AM		
+0 mins.	18	115	133	10	8	18	132	12	144
+15 mins.	35	136	171	**14**	10	24	112	7	119
+30 mins.	22	**174**	196	14	13	**27**	117	12	129
+45 mins.	**43**	161	**204**	10	**15**	25	**136**	**16**	**152**
Total Volume	118	586	704	48	46	94	497	47	544
% App. Total	16.8	83.2		51.1	48.9		91.4	8.6	
PHF	.686	.842	.863	.857	.767	.870	.914	.734	.895

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City of Yucca Valley
N/S: West Commercial Access Road
E/W: SR-62
Weather: Clear

File Name : 03_YCV_W CAR_SR62 PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	SR-62 Westbound			West Commercial Access Road Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	48	160	208	32	45	77	141	34	175	460
04:15 PM	31	175	206	33	48	81	157	17	174	461
04:30 PM	49	188	237	34	41	75	158	18	176	488
04:45 PM	48	176	224	32	44	76	165	19	184	484
Total	176	699	875	131	178	309	621	88	709	1893
05:00 PM	52	190	242	27	38	65	179	22	201	508
05:15 PM	34	176	210	16	35	51	152	14	166	427
05:30 PM	46	137	183	23	49	72	168	25	193	448
05:45 PM	43	122	165	26	43	69	157	19	176	410
Total	175	625	800	92	165	257	656	80	736	1793
Grand Total	351	1324	1675	223	343	566	1277	168	1445	3686
Apprch %	21	79		39.4	60.6		88.4	11.6		
Total %	9.5	35.9	45.4	6	9.3	15.4	34.6	4.6	39.2	

	SR-62 Westbound			West Commercial Access Road Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:15 PM										
04:15 PM	31	175	206	33	**48**	**81**	157	17	174	461
04:30 PM	49	188	237	**34**	41	75	158	18	176	488
04:45 PM	48	176	224	32	44	76	165	19	184	484
05:00 PM	**52**	**190**	**242**	27	38	65	**179**	**22**	**201**	**508**
Total Volume	180	729	909	126	171	297	659	76	735	1941
% App. Total	19.8	80.2		42.4	57.6		89.7	10.3		
PHF	.865	.959	.939	.926	.891	.917	.920	.864	.914	.955

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City of Yucca Valley
N/S: West Commercial Access Road
E/W: SR-62
Weather: Clear

File Name : 03_YCV_W CAR_SR62 PM
Site Code : 241081
Start Date : 12/11/2024
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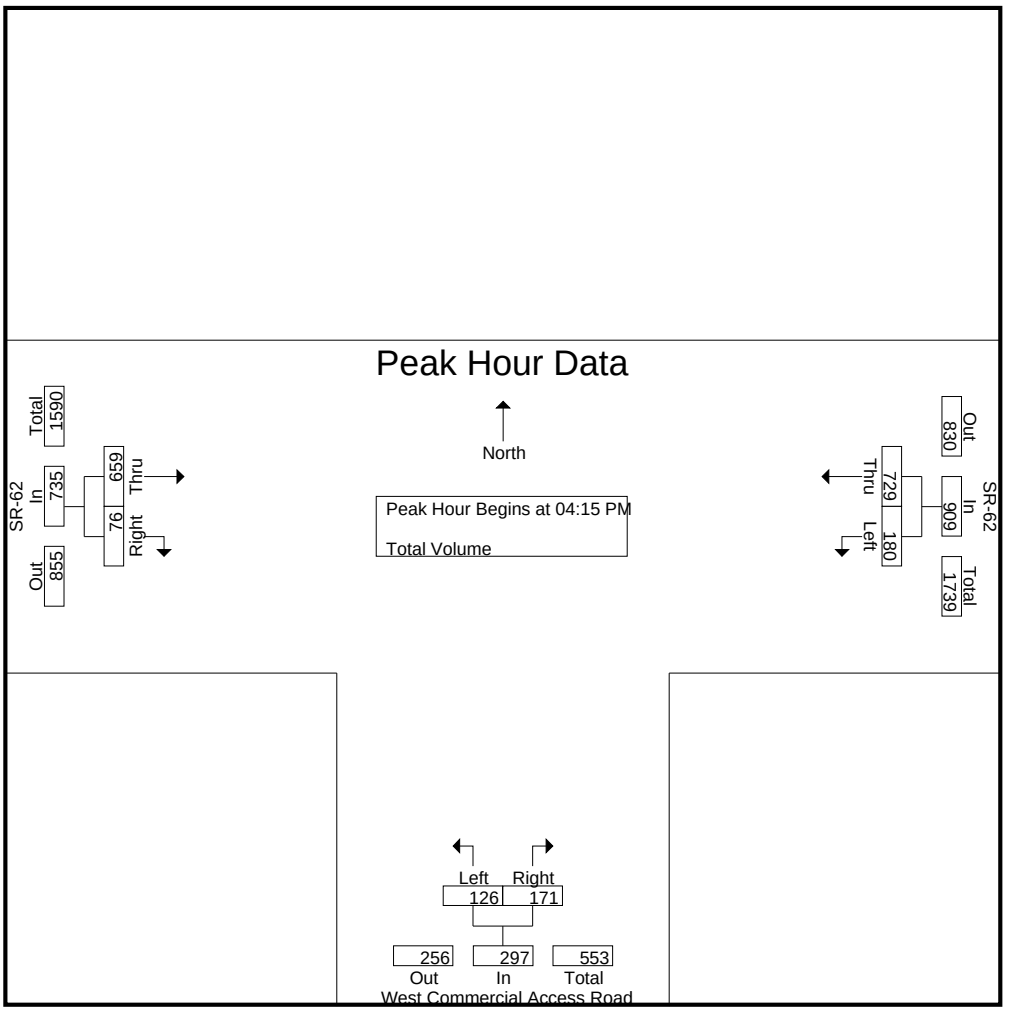

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:00 PM			04:45 PM		
+0 mins.	49	188	237	32	45	77	165	19	184
+15 mins.	48	176	224	33	**48**	**81**	**179**	22	**201**
+30 mins.	**52**	**190**	**242**	**34**	41	75	152	14	166
+45 mins.	34	176	210	32	44	76	168	**25**	193
Total Volume	183	730	913	131	178	309	664	80	744
% App. Total	20	80		42.4	57.6		89.2	10.8	
PHF	.880	.961	.943	.963	.927	.954	.927	.800	.925

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City of Yucca Valley
N/S: East Commercial Access Road
E/W: SR-62
Weather: Clear

File Name : 04_YCV_E CAR_SR62 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	SR-62 Westbound			East Commercial Access Road Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	1	115	116	0	6	6	148	3	151	273
07:15 AM	0	120	120	0	10	10	111	0	111	241
07:30 AM	0	126	126	0	13	13	124	0	124	263
07:45 AM	0	191	191	0	11	11	155	1	156	358
Total	1	552	553	0	40	40	538	4	542	1135
08:00 AM	1	138	139	0	6	6	132	0	132	277
08:15 AM	1	160	161	0	20	20	105	1	106	287
08:30 AM	0	197	197	0	14	14	133	1	134	345
08:45 AM	0	194	194	0	19	19	151	0	151	364
Total	2	689	691	0	59	59	521	2	523	1273
Grand Total	3	1241	1244	0	99	99	1059	6	1065	2408
Apprch %	0.2	99.8		0	100		99.4	0.6		
Total %	0.1	51.5	51.7	0	4.1	4.1	44	0.2	44.2	

	SR-62 Westbound			East Commercial Access Road Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 08:00 AM										
08:00 AM	**1**	138	139	0	6	6	132	0	132	277
08:15 AM	1	160	161	0	**20**	**20**	105	**1**	106	287
08:30 AM	0	**197**	**197**	0	14	14	133	1	134	345
08:45 AM	0	194	194	0	19	19	**151**	0	**151**	**364**
Total Volume	2	689	691	0	59	59	521	2	523	1273
% App. Total	0.3	99.7		0	100		99.6	0.4		
PHF	.500	.874	.877	.000	.738	.738	.863	.500	.866	.874

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File Name : 04_YCV_E CAR_SR62 AM
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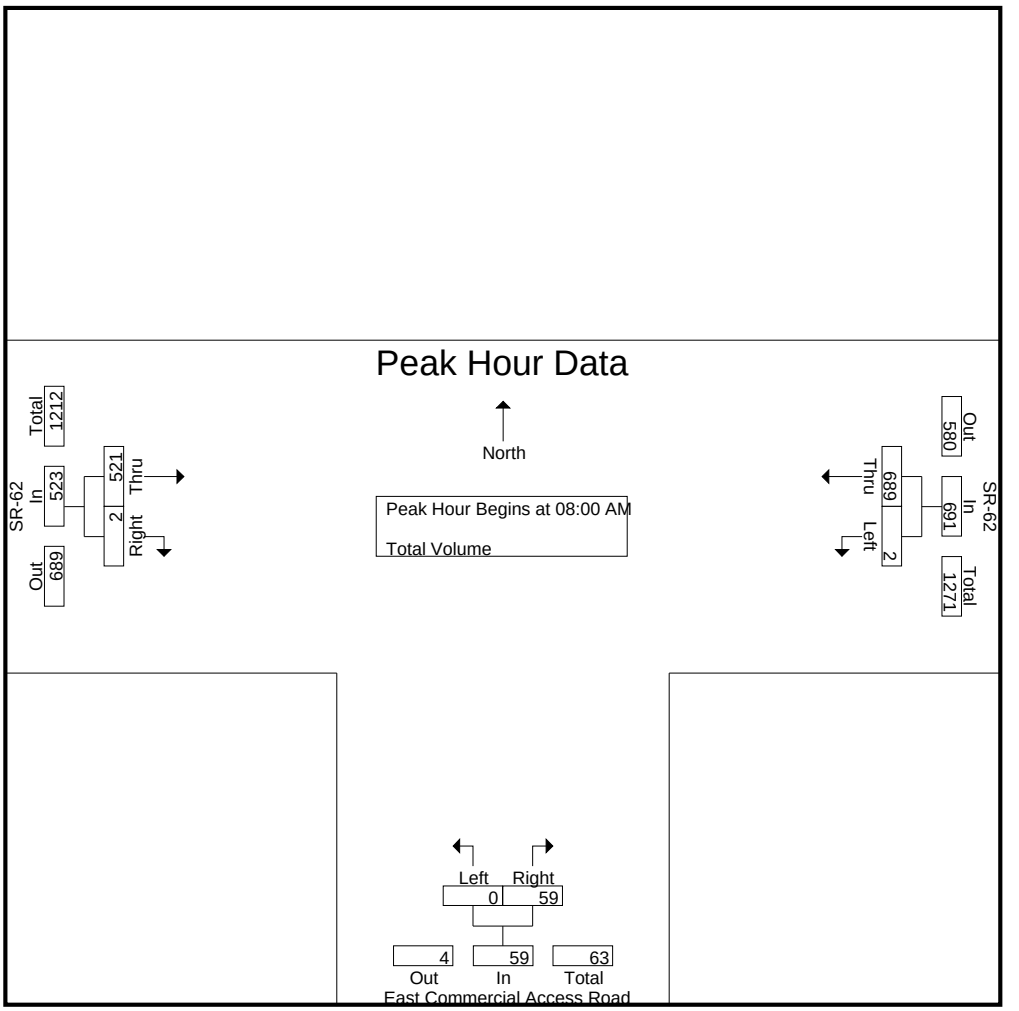

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM			08:00 AM			07:00 AM		
+0 mins.	**1**	138	139	0	6	6	148	**3**	151
+15 mins.	1	160	161	0	**20**	**20**	111	0	111
+30 mins.	0	**197**	**197**	0	14	14	124	0	124
+45 mins.	0	194	194	0	19	19	**155**	1	**156**
Total Volume	2	689	691	0	59	59	538	4	542
% App. Total	0.3	99.7		0	100		99.3	0.7	
PHF	.500	.874	.877	.000	.738	.738	.868	.333	.869

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File Name : 04_YCV_E CAR_SR62 PM
Site Code : 241081
Start Date : 12/11/2024
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Groups Printed- Total Volume

	SR-62 Westbound			East Commercial Access Road Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	203	203	0	16	16	189	2	191	410
04:15 PM	0	212	212	0	9	9	202	1	203	424
04:30 PM	0	237	237	0	14	14	203	3	206	457
04:45 PM	0	204	204	0	18	18	209	1	210	432
Total	0	856	856	0	57	57	803	7	810	1723
05:00 PM	0	252	252	0	9	9	225	0	225	486
05:15 PM	0	200	200	0	13	13	183	0	183	396
05:30 PM	0	179	179	0	4	4	219	1	220	403
05:45 PM	0	171	171	0	11	11	198	0	198	380
Total	0	802	802	0	37	37	825	1	826	1665
Grand Total	0	1658	1658	0	94	94	1628	8	1636	3388
Apprch %	0	100		0	100		99.5	0.5		
Total %	0	48.9	48.9	0	2.8	2.8	48.1	0.2	48.3	

	SR-62 Westbound			East Commercial Access Road Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:15 PM										
04:15 PM	0	212	212	0	9	9	202	1	203	424
04:30 PM	0	237	237	0	14	14	203	**3**	206	457
04:45 PM	0	204	204	0	**18**	**18**	209	1	210	432
05:00 PM	0	**252**	**252**	0	9	9	**225**	0	**225**	**486**
Total Volume	0	905	905	0	50	50	839	5	844	1799
% App. Total	0	100		0	100		99.4	0.6		
PHF	.000	.898	.898	.000	.694	.694	.932	.417	.938	.925

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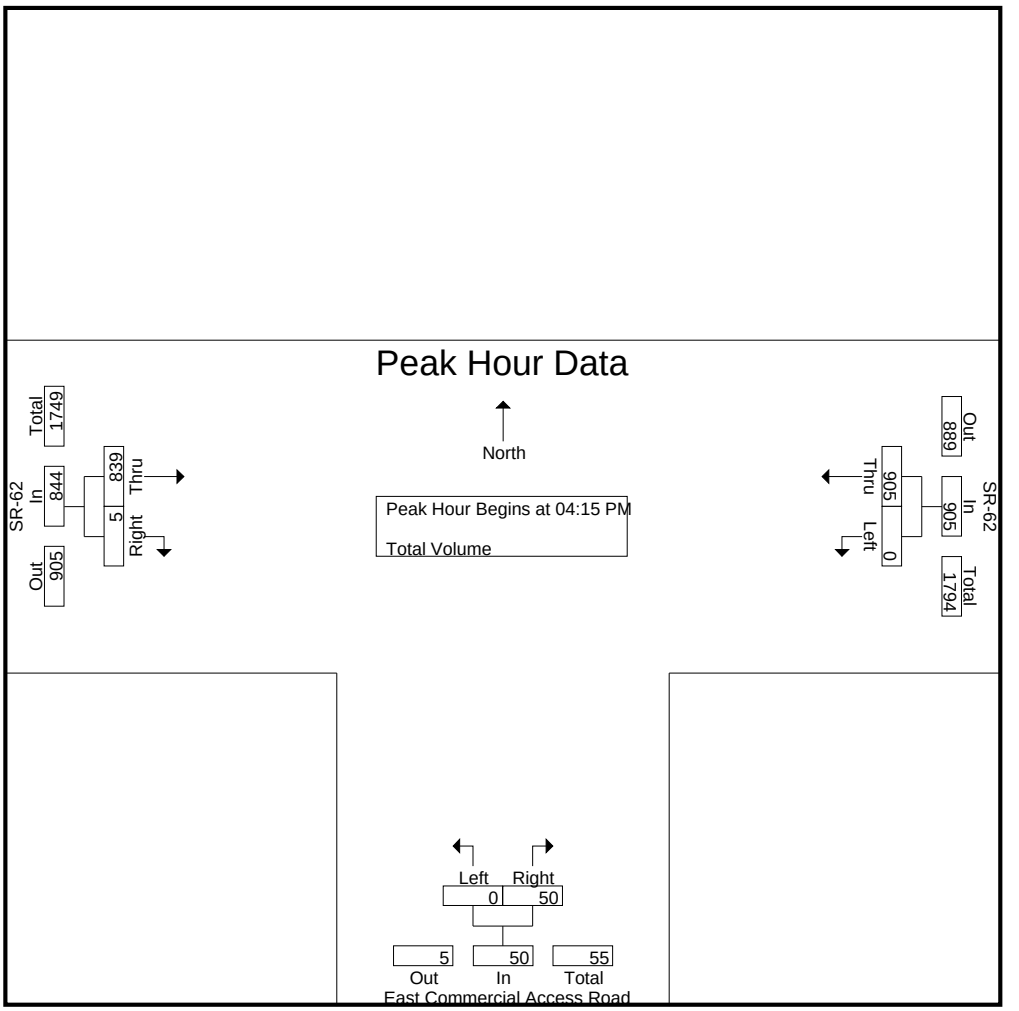
City of Yucca Valley
N/S: East Commercial Access Road
E/W: SR-62
Weather: Clear

File Name : 04_YCV_E CAR_SR62 PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM			04:00 PM			04:15 PM		
+0 mins.	0	212	212	0	16	16	202	1	203
+15 mins.	0	237	237	0	9	9	203	**3**	206
+30 mins.	0	204	204	0	14	14	209	1	210
+45 mins.	0	**252**	**252**	0	**18**	**18**	**225**	0	**225**
Total Volume	0	905	905	0	57	57	839	5	844
% App. Total	0	100		0	100		99.4	0.6	
PHF	.000	.898	.898	.000	.792	.792	.932	.417	.938

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City of Yucca Valley
N/S: Yucca Mesa Road/La Contenta Road
E/W: SR-62
Weather: Clear

File Name : 05_YCV_YM_SR62 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	Yuca Mesa Road Southbound				SR-62 Westbound				La Contenta Road Northbound				SR-62 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	15	18	8	41	9	88	4	101	16	13	10	39	12	112	16	140	321
07:15 AM	11	3	11	25	3	102	6	111	7	5	3	15	9	116	8	133	284
07:30 AM	26	4	7	37	3	111	10	124	3	4	3	10	7	118	6	131	302
07:45 AM	16	15	33	64	6	151	15	172	8	5	6	19	12	136	8	156	411
Total	68	40	59	167	21	452	35	508	34	27	22	83	40	482	38	560	1318
08:00 AM	12	11	28	51	5	106	8	119	8	8	3	19	16	122	3	141	330
08:15 AM	10	8	19	37	2	136	14	152	10	11	2	23	10	113	4	127	339
08:30 AM	16	10	28	54	6	155	7	168	6	8	4	18	19	111	6	136	376
08:45 AM	15	16	26	57	7	176	9	192	2	4	4	10	11	129	12	152	411
Total	53	45	101	199	20	573	38	631	26	31	13	70	56	475	25	556	1456
Grand Total	121	85	160	366	41	1025	73	1139	60	58	35	153	96	957	63	1116	2774
Apprch %	33.1	23.2	43.7		3.6	90	6.4		39.2	37.9	22.9		8.6	85.8	5.6		
Total %	4.4	3.1	5.8	13.2	1.5	37	2.6	41.1	2.2	2.1	1.3	5.5	3.5	34.5	2.3	40.2	

	Yuca Mesa Road Southbound				SR-62 Westbound				La Contenta Road Northbound				SR-62 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	**16**	**15**	**33**	**64**	**6**	151	**15**	**172**	8	5	**6**	19	12	**136**	**8**	**156**	**411**
08:00 AM	12	11	28	51	5	106	8	119	8	8	3	19	16	122	3	141	330
08:15 AM	10	8	19	37	2	136	14	152	**10**	**11**	2	**23**	10	113	4	127	339
08:30 AM	16	10	28	54	6	**155**	7	168	6	8	4	18	**19**	111	6	136	376
Total Volume	54	44	108	206	19	548	44	611	32	32	15	79	57	482	21	560	1456
% App. Total	26.2	21.4	52.4		3.1	89.7	7.2		40.5	40.5	19		10.2	86.1	3.8		
PHF	.844	.733	.818	.805	.792	.884	.733	.888	.800	.727	.625	.859	.750	.886	.656	.897	.886

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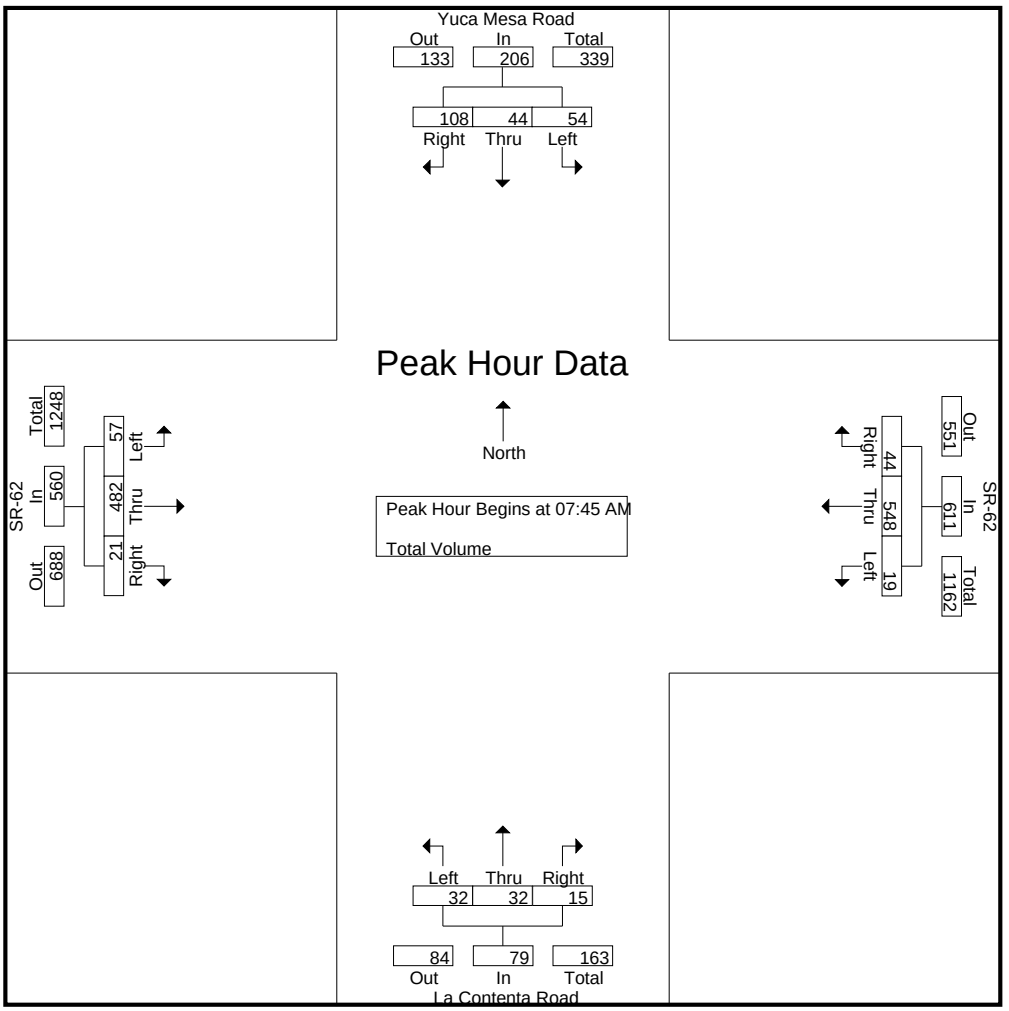
City of Yucca Valley
N/S: Yucca Mesa Road/La Contenta Road
E/W: SR-62
Weather: Clear

File Name : 05_YCV_YM_SR62 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM				08:00 AM				07:00 AM				07:15 AM			
+0 mins.	**16**	**15**	**33**	**64**	5	106	8	119	**16**	**13**	**10**	**39**	9	116	**8**	133
+15 mins.	12	11	28	51	2	136	**14**	152	7	5	3	15	7	118	6	131
+30 mins.	10	8	19	37	6	155	7	168	3	4	3	10	12	**136**	8	**156**
+45 mins.	16	10	28	54	**7**	**176**	9	**192**	8	5	6	19	**16**	122	3	141
Total Volume	54	44	108	206	20	573	38	631	34	27	22	83	44	492	25	561
% App. Total	26.2	21.4	52.4		3.2	90.8	6		41	32.5	26.5		7.8	87.7	4.5	
PHF	.844	.733	.818	.805	.714	.814	.679	.822	.531	.519	.550	.532	.688	.904	.781	.899

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City of Yucca Valley
N/S: Yucca Mesa Road/La Contenta Road
E/W: SR-62
Weather: Clear

File Name : 05_YCV_YM_SR62 PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	Yuca Mesa Road Southbound				SR-62 Westbound				La Contenta Road Northbound				SR-62 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	13	4	21	38	6	172	9	187	5	9	2	16	41	155	8	204	445
04:15 PM	18	6	13	37	3	193	22	218	6	8	2	16	35	172	6	213	484
04:30 PM	16	6	19	41	3	213	13	229	7	9	8	24	33	154	5	192	486
04:45 PM	12	5	22	39	4	198	21	223	2	6	2	10	30	186	6	222	494
Total	59	21	75	155	16	776	65	857	20	32	14	66	139	667	25	831	1909
05:00 PM	17	4	26	47	5	191	16	212	8	5	5	18	34	179	5	218	495
05:15 PM	11	5	6	22	3	194	18	215	1	6	4	11	32	141	5	178	426
05:30 PM	11	2	21	34	8	136	11	155	3	6	3	12	24	148	5	177	378
05:45 PM	10	2	24	36	3	157	9	169	5	6	2	13	32	149	3	184	402
Total	49	13	77	139	19	678	54	751	17	23	14	54	122	617	18	757	1701
Grand Total	108	34	152	294	35	1454	119	1608	37	55	28	120	261	1284	43	1588	3610
Apprch %	36.7	11.6	51.7		2.2	90.4	7.4		30.8	45.8	23.3		16.4	80.9	2.7		
Total %	3	0.9	4.2	8.1	1	40.3	3.3	44.5	1	1.5	0.8	3.3	7.2	35.6	1.2	44	

	Yuca Mesa Road Southbound				SR-62 Westbound				La Contenta Road Northbound				SR-62 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	**18**	**6**	13	37	3	193	**22**	218	6	8	2	16	**35**	172	**6**	213	484
04:30 PM	16	6	19	41	3	**213**	13	**229**	7	**9**	**8**	**24**	33	154	5	192	486
04:45 PM	12	5	22	39	4	198	21	223	2	6	2	10	30	**186**	6	**222**	494
05:00 PM	17	4	**26**	**47**	**5**	191	16	212	**8**	5	5	18	34	179	5	218	**495**
Total Volume	63	21	80	164	15	795	72	882	23	28	17	68	132	691	22	845	1959
% App. Total	38.4	12.8	48.8		1.7	90.1	8.2		33.8	41.2	25		15.6	81.8	2.6		
PHF	.875	.875	.769	.872	.750	.933	.818	.963	.719	.778	.531	.708	.943	.929	.917	.952	.989

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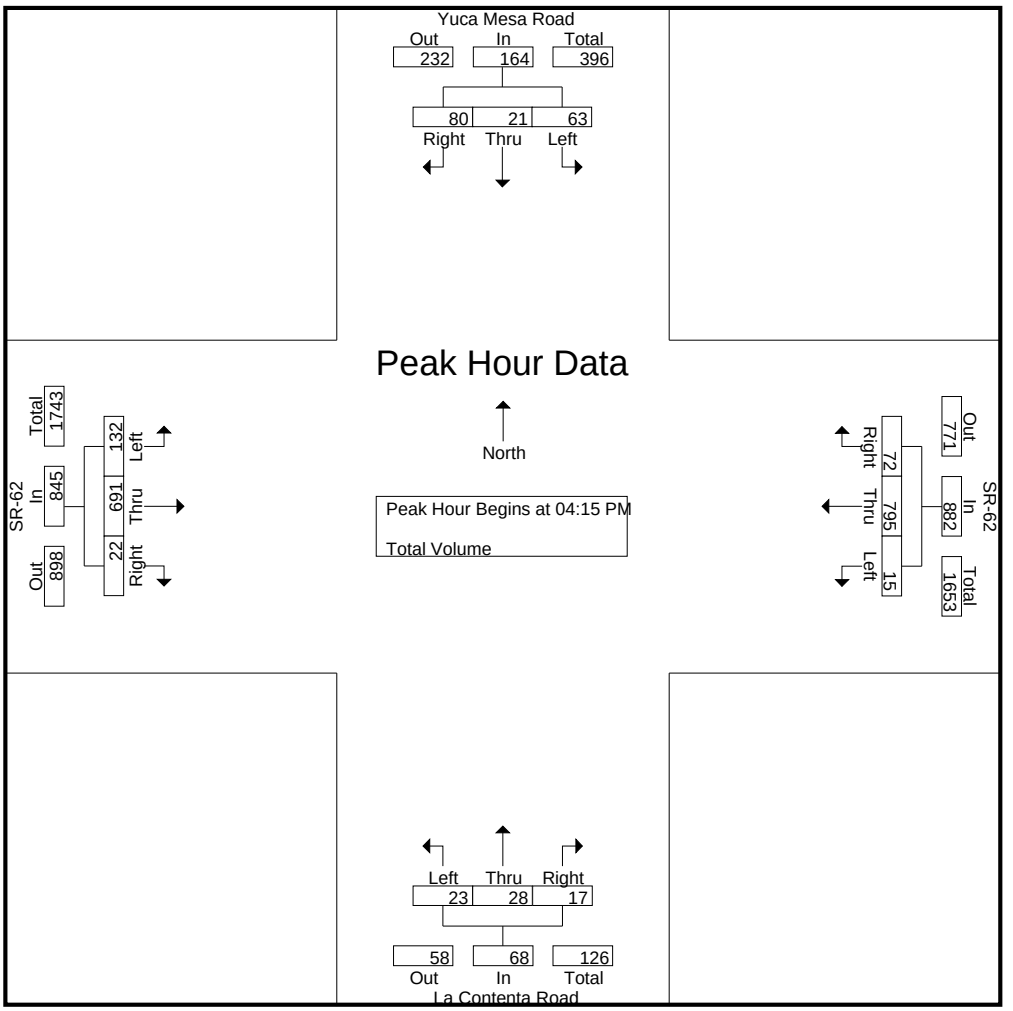
City of Yucca Valley
N/S: Yucca Mesa Road/La Contenta Road
E/W: SR-62
Weather: Clear

File Name : 05_YCV_YM_SR62 PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:15 PM				04:15 PM				04:15 PM			
+0 mins.	**18**	**6**	13	37	3	193	**22**	218	6	8	2	16	**35**	172	**6**	213
+15 mins.	16	6	19	41	3	**213**	13	**229**	7	**9**	**8**	**24**	33	154	5	192
+30 mins.	12	5	22	39	4	198	21	223	2	6	2	10	30	**186**	6	**222**
+45 mins.	17	4	**26**	**47**	**5**	191	16	212	**8**	5	5	18	34	179	5	218
Total Volume	63	21	80	164	15	795	72	882	23	28	17	68	132	691	22	845
% App. Total	38.4	12.8	48.8		1.7	90.1	8.2		33.8	41.2	25		15.6	81.8	2.6	
PHF	.875	.875	.769	.872	.750	.933	.818	.963	.719	.778	.531	.708	.943	.929	.917	.952

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City of Yucca Valley
N/S: Palomar Avenue
E/W: Yucca Trail
Weather: Clear

File Name : 06_YCV_Pal_YT AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	Palomar Avenue Southbound				Yucca Trail Westbound				Palomar Avenue Northbound				Yucca Trail Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	5	11	9	25	22	95	9	126	16	16	42	74	10	61	4	75	300
07:15 AM	4	7	4	15	10	42	5	57	5	12	40	57	5	39	4	48	177
07:30 AM	4	16	8	28	12	39	8	59	11	14	32	57	6	31	4	41	185
07:45 AM	3	10	7	20	12	51	8	71	10	23	37	70	9	46	7	62	223
Total	16	44	28	88	56	227	30	313	42	65	151	258	30	177	19	226	885
08:00 AM	0	10	9	19	12	47	4	63	11	22	32	65	8	38	6	52	199
08:15 AM	3	18	3	24	17	49	1	67	9	15	26	50	15	41	8	64	205
08:30 AM	4	17	14	35	9	36	9	54	9	31	22	62	15	23	4	42	193
08:45 AM	6	14	7	27	14	54	15	83	12	33	23	68	20	51	6	77	255
Total	13	59	33	105	52	186	29	267	41	101	103	245	58	153	24	235	852
Grand Total	29	103	61	193	108	413	59	580	83	166	254	503	88	330	43	461	1737
Apprch %	15	53.4	31.6		18.6	71.2	10.2		16.5	33	50.5		19.1	71.6	9.3		
Total %	1.7	5.9	3.5	11.1	6.2	23.8	3.4	33.4	4.8	9.6	14.6	29	5.1	19	2.5	26.5	

	Palomar Avenue Southbound				Yucca Trail Westbound				Palomar Avenue Northbound				Yucca Trail Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	**5**	11	**9**	25	**22**	**95**	**9**	**126**	**16**	16	**42**	**74**	**10**	**61**	4	**75**	**300**
07:15 AM	4	7	4	15	10	42	5	57	5	12	40	57	5	39	4	48	177
07:30 AM	4	**16**	8	**28**	12	39	8	59	11	14	32	57	6	31	4	41	185
07:45 AM	3	10	7	20	12	51	8	71	10	**23**	37	70	9	46	**7**	62	223
Total Volume	16	44	28	88	56	227	30	313	42	65	151	258	30	177	19	226	885
% App. Total	18.2	50	31.8		17.9	72.5	9.6		16.3	25.2	58.5		13.3	78.3	8.4		
PHF	.800	.688	.778	.786	.636	.597	.833	.621	.656	.707	.899	.872	.750	.725	.679	.753	.738

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City of Yucca Valley
N/S: Palomar Avenue
E/W: Yucca Trail
Weather: Clear

File Name : 06_YCV_Pal_YT AM
Site Code : 241081
Start Date : 12/11/2024
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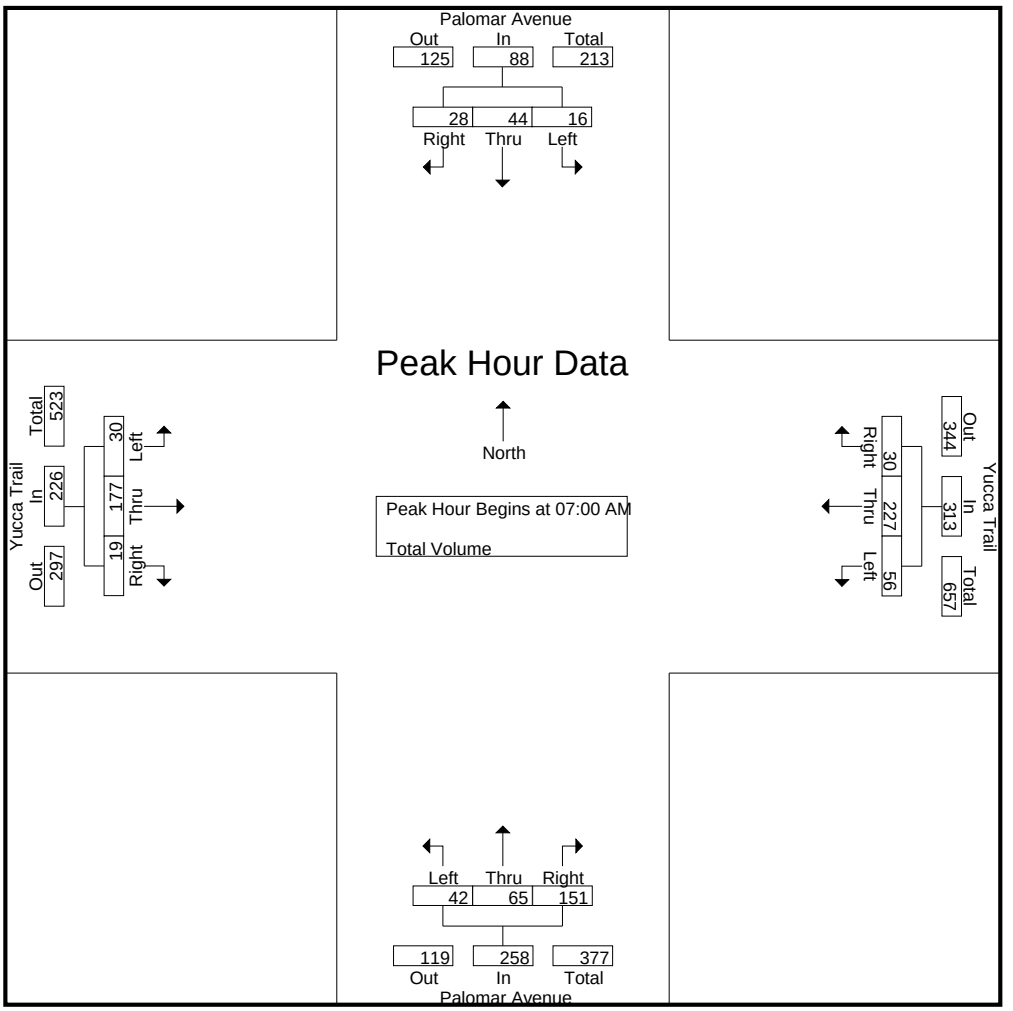

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				07:00 AM				07:00 AM				08:00 AM			
+0 mins.	0	10	9	19	**22**	**95**	**9**	**126**	**16**	16	**42**	**74**	8	38	6	52
+15 mins.	3	**18**	3	24	10	42	5	57	5	12	40	57	15	41	**8**	64
+30 mins.	4	17	**14**	**35**	12	39	8	59	11	14	32	57	15	23	4	42
+45 mins.	**6**	14	7	27	12	51	8	71	10	**23**	37	70	**20**	**51**	6	**77**
Total Volume	13	59	33	105	56	227	30	313	42	65	151	258	58	153	24	235
% App. Total	12.4	56.2	31.4		17.9	72.5	9.6		16.3	25.2	58.5		24.7	65.1	10.2	
PHF	.542	.819	.589	.750	.636	.597	.833	.621	.656	.707	.899	.872	.725	.750	.750	.763

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City of Yucca Valley
N/S: Palomar Avenue
E/W: Yucca Trail
Weather: Clear

File Name : 06_YCV_Pal_YT PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	Palomar Avenue Southbound				Yucca Trail Westbound				Palomar Avenue Northbound				Yucca Trail Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	16	25	14	55	12	62	16	90	7	29	23	59	19	48	8	75	279
04:15 PM	8	31	20	59	18	58	15	91	7	27	23	57	16	44	12	72	279
04:30 PM	19	32	20	71	24	57	10	91	14	25	26	65	18	39	11	68	295
04:45 PM	23	38	29	90	15	58	13	86	13	24	23	60	10	55	8	73	309
Total	66	126	83	275	69	235	54	358	41	105	95	241	63	186	39	288	1162
05:00 PM	14	31	13	58	27	65	13	105	12	25	22	59	10	60	20	90	312
05:15 PM	11	25	12	48	19	59	7	85	7	22	16	45	10	48	15	73	251
05:30 PM	4	33	20	57	14	42	15	71	7	26	25	58	9	46	11	66	252
05:45 PM	7	22	16	45	7	42	7	56	6	26	15	47	15	49	15	79	227
Total	36	111	61	208	67	208	42	317	32	99	78	209	44	203	61	308	1042
Grand Total	102	237	144	483	136	443	96	675	73	204	173	450	107	389	100	596	2204
Apprch %	21.1	49.1	29.8		20.1	65.6	14.2		16.2	45.3	38.4		18	65.3	16.8		
Total %	4.6	10.8	6.5	21.9	6.2	20.1	4.4	30.6	3.3	9.3	7.8	20.4	4.9	17.6	4.5	27	

	Palomar Avenue Southbound				Yucca Trail Westbound				Palomar Avenue Northbound				Yucca Trail Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:15 PM																	
04:15 PM	8	31	20	59	18	58	**15**	91	7	**27**	23	57	16	44	12	72	279
04:30 PM	19	32	20	71	24	57	10	91	**14**	25	**26**	**65**	**18**	39	11	68	295
04:45 PM	**23**	**38**	**29**	**90**	15	58	13	86	13	24	23	60	10	55	8	73	309
05:00 PM	14	31	13	58	**27**	**65**	13	**105**	12	25	22	59	10	**60**	**20**	**90**	**312**
Total Volume	64	132	82	278	84	238	51	373	46	101	94	241	54	198	51	303	1195
% App. Total	23	47.5	29.5		22.5	63.8	13.7		19.1	41.9	39		17.8	65.3	16.8		
PHF	.696	.868	.707	.772	.778	.915	.850	.888	.821	.935	.904	.927	.750	.825	.638	.842	.958

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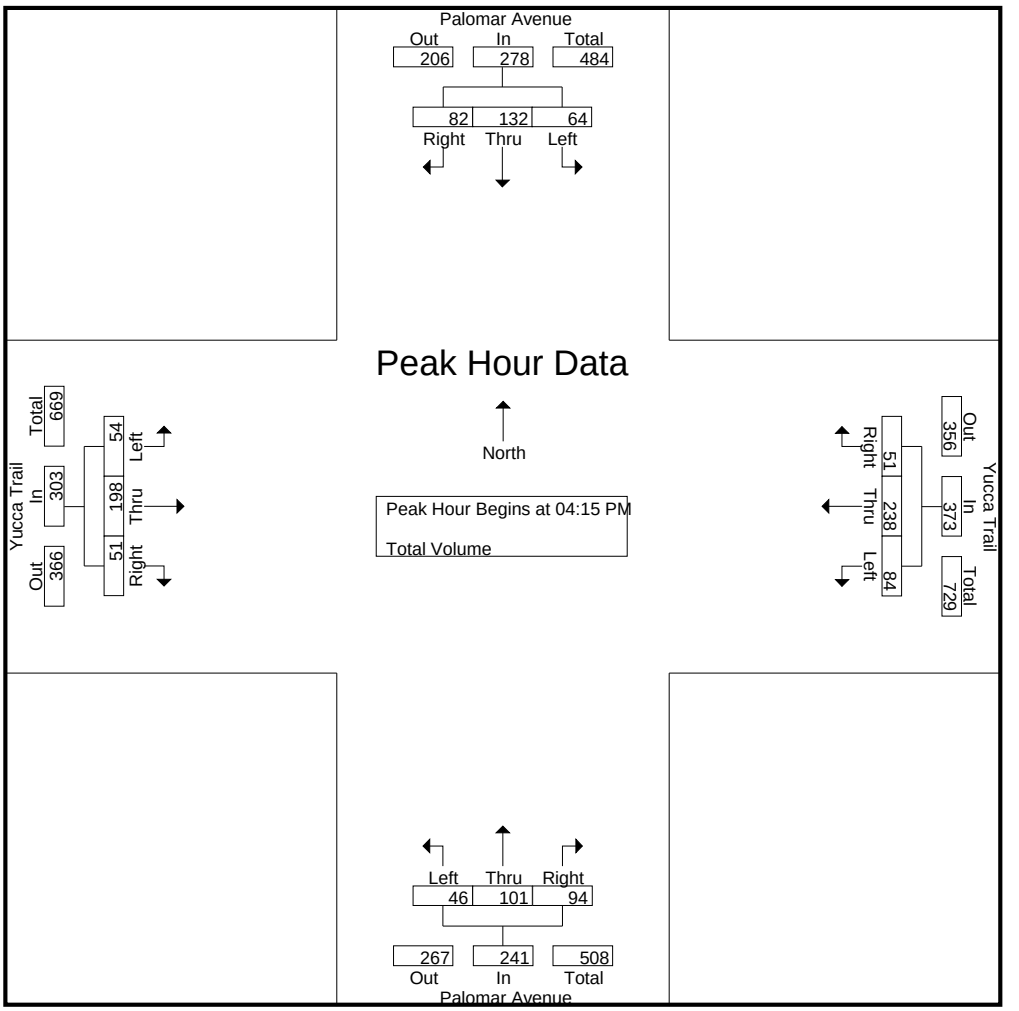
City of Yucca Valley
N/S: Palomar Avenue
E/W: Yucca Trail
Weather: Clear

File Name : 06_YCV_Pal_YT PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM				04:15 PM				04:00 PM				05:00 PM			
+0 mins.	8	31	20	59	18	58	**15**	91	7	**29**	23	59	10	**60**	**20**	**90**
+15 mins.	19	32	20	71	24	57	10	91	7	27	23	57	10	48	15	73
+30 mins.	**23**	**38**	**29**	**90**	15	58	13	86	**14**	25	**26**	**65**	9	46	11	66
+45 mins.	14	31	13	58	**27**	**65**	13	**105**	13	24	23	60	**15**	49	15	79
Total Volume	64	132	82	278	84	238	51	373	41	105	95	241	44	203	61	308
% App. Total	23	47.5	29.5		22.5	63.8	13.7		17	43.6	39.4		14.3	65.9	19.8	
PHF	.696	.868	.707	.772	.778	.915	.850	.888	.732	.905	.913	.927	.733	.846	.763	.856

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City of Yucca Valley
N/S: La Contenta Road
E/W: Yucca Trail/Alta Loma Road
Weather: Clear

File Name : 07_YCV_LaC_YT AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	La Contenta Road Southbound				Alta Loma Road Westbound				La Contenta Road Northbound				Yucca Trail Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	12	0	65	77	0	42	10	52	0	0	0	0	67	46	0	113	242
07:15 AM	5	0	12	17	0	34	1	35	0	0	0	0	12	71	0	83	135
07:30 AM	0	0	9	9	0	50	1	51	0	0	0	0	8	53	0	61	121
07:45 AM	3	0	12	15	0	46	4	50	0	0	0	0	16	56	0	72	137
Total	20	0	98	118	0	172	16	188	0	0	0	0	103	226	0	329	635
08:00 AM	5	0	14	19	0	39	5	44	0	0	0	0	20	39	0	59	122
08:15 AM	1	0	10	11	0	47	3	50	0	0	0	0	14	40	0	54	115
08:30 AM	2	0	7	9	0	43	2	45	0	0	0	0	16	33	0	49	103
08:45 AM	4	0	18	22	0	49	0	49	0	0	0	0	10	60	0	70	141
Total	12	0	49	61	0	178	10	188	0	0	0	0	60	172	0	232	481
Grand Total	32	0	147	179	0	350	26	376	0	0	0	0	163	398	0	561	1116
Apprch %	17.9	0	82.1		0	93.1	6.9		0	0	0		29.1	70.9	0		
Total %	2.9	0	13.2	16	0	31.4	2.3	33.7	0	0	0	0	14.6	35.7	0	50.3	

	La Contenta Road Southbound				Alta Loma Road Westbound				La Contenta Road Northbound				Yucca Trail Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	**12**	0	**65**	**77**	0	42	**10**	**52**	0	0	0	0	**67**	46	0	**113**	**242**
07:15 AM	5	0	12	17	0	34	1	35	0	0	0	0	12	**71**	0	83	135
07:30 AM	0	0	9	9	0	**50**	1	51	0	0	0	0	8	53	0	61	121
07:45 AM	3	0	12	15	0	46	4	50	0	0	0	0	16	56	0	72	137
Total Volume	20	0	98	118	0	172	16	188	0	0	0	0	103	226	0	329	635
% App. Total	16.9	0	83.1		0	91.5	8.5		0	0	0		31.3	68.7	0		
PHF	.417	.000	.377	.383	.000	.860	.400	.904	.000	.000	.000	.000	.384	.796	.000	.728	.656

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City of Yucca Valley
N/S: La Contenta Road
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Weather: Clear

File Name : 07_YCV_LaC_YT AM
Site Code : 241081
Start Date : 12/11/2024
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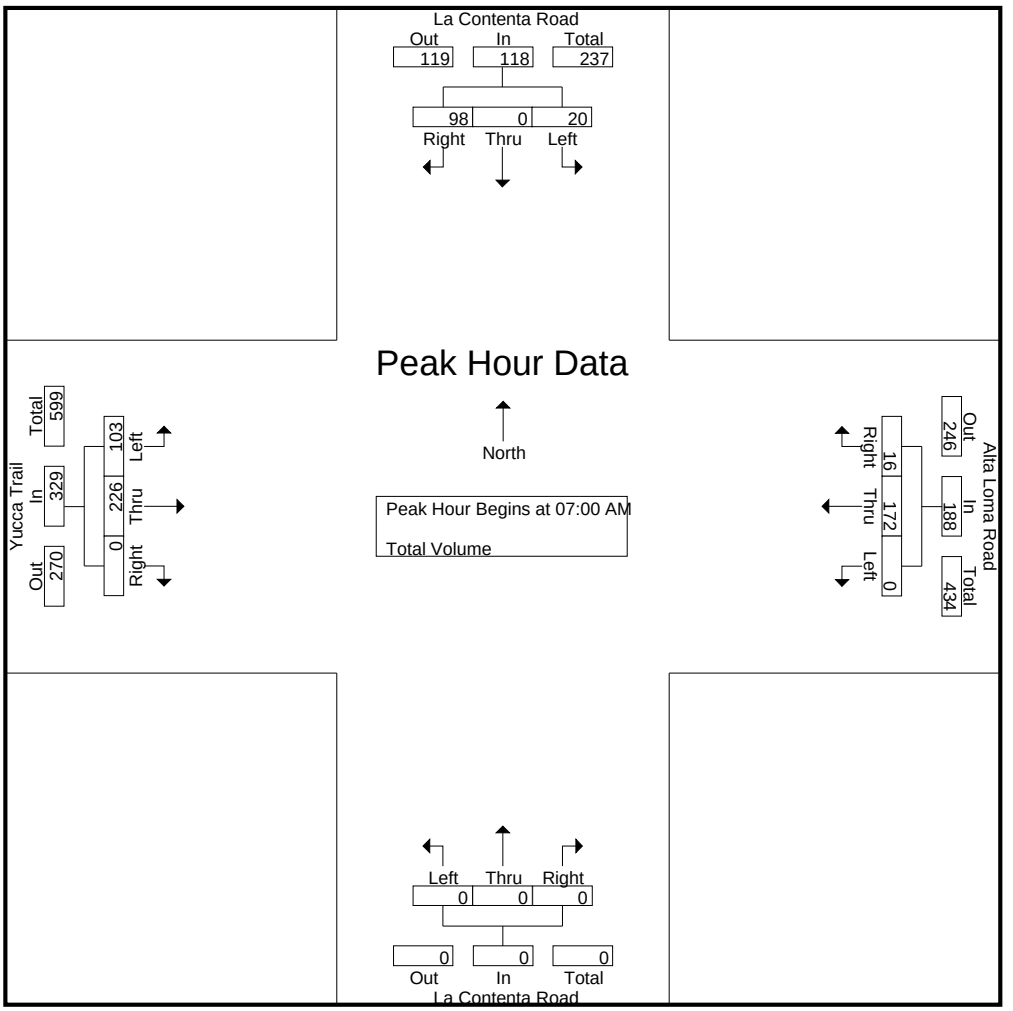

Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM				07:30 AM				07:00 AM				07:00 AM			
+0 mins.	**12**	0	**65**	**77**	0	**50**	1	**51**	0	0	0	0	**67**	46	0	**113**
+15 mins.	5	0	12	17	0	46	4	50	0	0	0	0	12	**71**	0	83
+30 mins.	0	0	9	9	0	39	**5**	44	0	0	0	0	8	53	0	61
+45 mins.	3	0	12	15	0	47	3	50	0	0	0	0	16	56	0	72
Total Volume	20	0	98	118	0	182	13	195	0	0	0	0	103	226	0	329
% App. Total	16.9	0	83.1		0	93.3	6.7		0	0	0		31.3	68.7	0	
PHF	.417	.000	.377	.383	.000	.910	.650	.956	.000	.000	.000	.000	.384	.796	.000	.728

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City of Yucca Valley
N/S: La Contenta Road
E/W: Yucca Trail/Alta Loma Road
Weather: Clear

File Name : 07_YCV_LaC_YT PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	La Contenta Road Southbound				Alta Loma Road Westbound				La Contenta Road Northbound				Yucca Trail Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	6	0	10	16	0	66	4	70	0	0	0	0	11	69	0	80	166
04:15 PM	7	0	12	19	0	56	5	61	0	0	0	0	6	58	0	64	144
04:30 PM	7	0	8	15	0	77	1	78	0	0	0	0	4	61	0	65	158
04:45 PM	6	0	11	17	0	62	3	65	0	0	0	0	7	68	0	75	157
Total	26	0	41	67	0	261	13	274	0	0	0	0	28	256	0	284	625
05:00 PM	5	0	8	13	0	74	1	75	0	0	0	0	9	60	0	69	157
05:15 PM	3	0	12	15	0	59	1	60	0	0	0	0	6	56	0	62	137
05:30 PM	4	0	11	15	0	48	3	51	0	0	0	0	12	48	0	60	126
05:45 PM	1	0	7	8	0	40	5	45	0	0	0	0	1	55	0	56	109
Total	13	0	38	51	0	221	10	231	0	0	0	0	28	219	0	247	529
Grand Total	39	0	79	118	0	482	23	505	0	0	0	0	56	475	0	531	1154
Apprch %	33.1	0	66.9		0	95.4	4.6		0	0	0		10.5	89.5	0		
Total %	3.4	0	6.8	10.2	0	41.8	2	43.8	0	0	0	0	4.9	41.2	0	46	

	La Contenta Road Southbound				Alta Loma Road Westbound				La Contenta Road Northbound				Yucca Trail Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	6	0	10	16	0	66	4	70	0	0	0	0	**11**	**69**	0	**80**	**166**
04:15 PM	**7**	0	**12**	**19**	0	56	**5**	61	0	0	0	0	6	58	0	64	144
04:30 PM	7	0	8	15	0	**77**	1	**78**	0	0	0	0	4	61	0	65	158
04:45 PM	6	0	11	17	0	62	3	65	0	0	0	0	7	68	0	75	157
Total Volume	26	0	41	67	0	261	13	274	0	0	0	0	28	256	0	284	625
% App. Total	38.8	0	61.2		0	95.3	4.7		0	0	0		9.9	90.1	0		
PHF	.929	.000	.854	.882	.000	.847	.650	.878	.000	.000	.000	.000	.636	.928	.000	.888	.941

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City of Yucca Valley
N/S: La Contenta Road
E/W: Yucca Trail/Alta Loma Road
Weather: Clear

File Name : 07_YCV_LaC_YT PM
Site Code : 241081
Start Date : 12/11/2024
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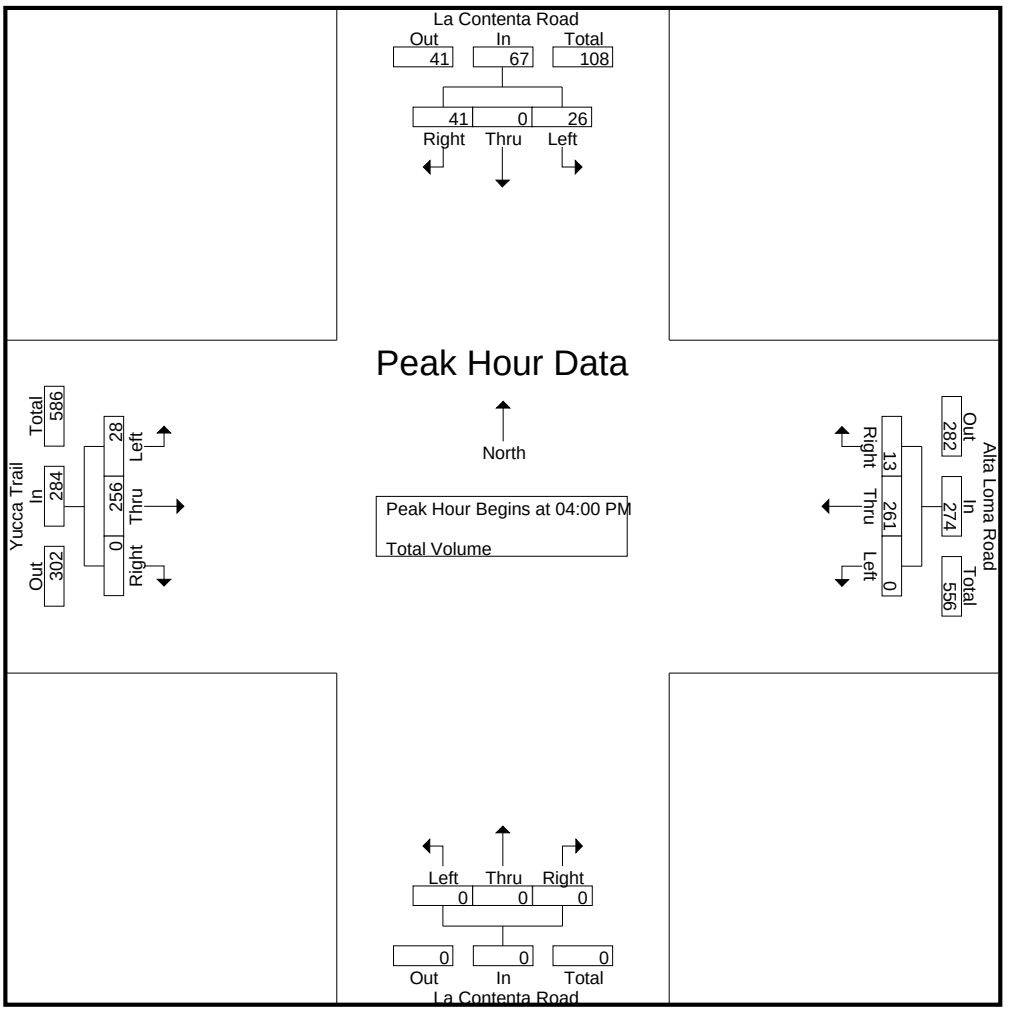

Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:00 PM				04:15 PM				04:00 PM				04:00 PM			
+0 mins.	6	0	10	16	0	56	**5**	61	0	0	0	0	**11**	**69**	0	**80**
+15 mins.	**7**	0	**12**	**19**	0	**77**	1	**78**	0	0	0	0	6	58	0	64
+30 mins.	7	0	8	15	0	62	3	65	0	0	0	0	4	61	0	65
+45 mins.	6	0	11	17	0	74	1	75	0	0	0	0	7	68	0	75
Total Volume	26	0	41	67	0	269	10	279	0	0	0	0	28	256	0	284
% App. Total	38.8	0	61.2		0	96.4	3.6		0	0	0		9.9	90.1	0	
PHF	.929	.000	.854	.882	.000	.873	.500	.894	.000	.000	.000	.000	.636	.928	.000	.888

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City of Yucca Valley
N/S: Commercial Driveway 1
E/W: SR-62
Weather: Clear

File Name : 08_YCV_DW1_SR62 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	SR-62 Westbound			Commercial Driveway 1 Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
07:00 AM	0	103	103	0	1	1	157	4	161	265
07:15 AM	0	119	119	0	1	1	115	5	120	240
07:30 AM	0	128	128	0	3	3	127	1	128	259
07:45 AM	0	175	175	0	0	0	160	1	161	336
Total	0	525	525	0	5	5	559	11	570	1100
08:00 AM	0	134	134	0	2	2	138	3	141	277
08:15 AM	1	150	151	0	3	3	118	8	126	280
08:30 AM	0	191	191	0	1	1	125	9	134	326
08:45 AM	0	172	172	0	1	1	168	10	178	351
Total	1	647	648	0	7	7	549	30	579	1234
Grand Total	1	1172	1173	0	12	12	1108	41	1149	2334
Apprch %	0.1	99.9		0	100		96.4	3.6		
Total %	0	50.2	50.3	0	0.5	0.5	47.5	1.8	49.2	

	SR-62 Westbound			Commercial Driveway 1 Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 08:00 AM										
08:00 AM	0	134	134	0	2	2	138	3	141	277
08:15 AM	**1**	150	151	0	**3**	**3**	118	8	126	280
08:30 AM	0	**191**	**191**	0	1	1	125	9	134	326
08:45 AM	0	172	172	0	1	1	**168**	**10**	**178**	**351**
Total Volume	1	647	648	0	7	7	549	30	579	1234
% App. Total	0.2	99.8		0	100		94.8	5.2		
PHF	.250	.847	.848	.000	.583	.583	.817	.750	.813	.879

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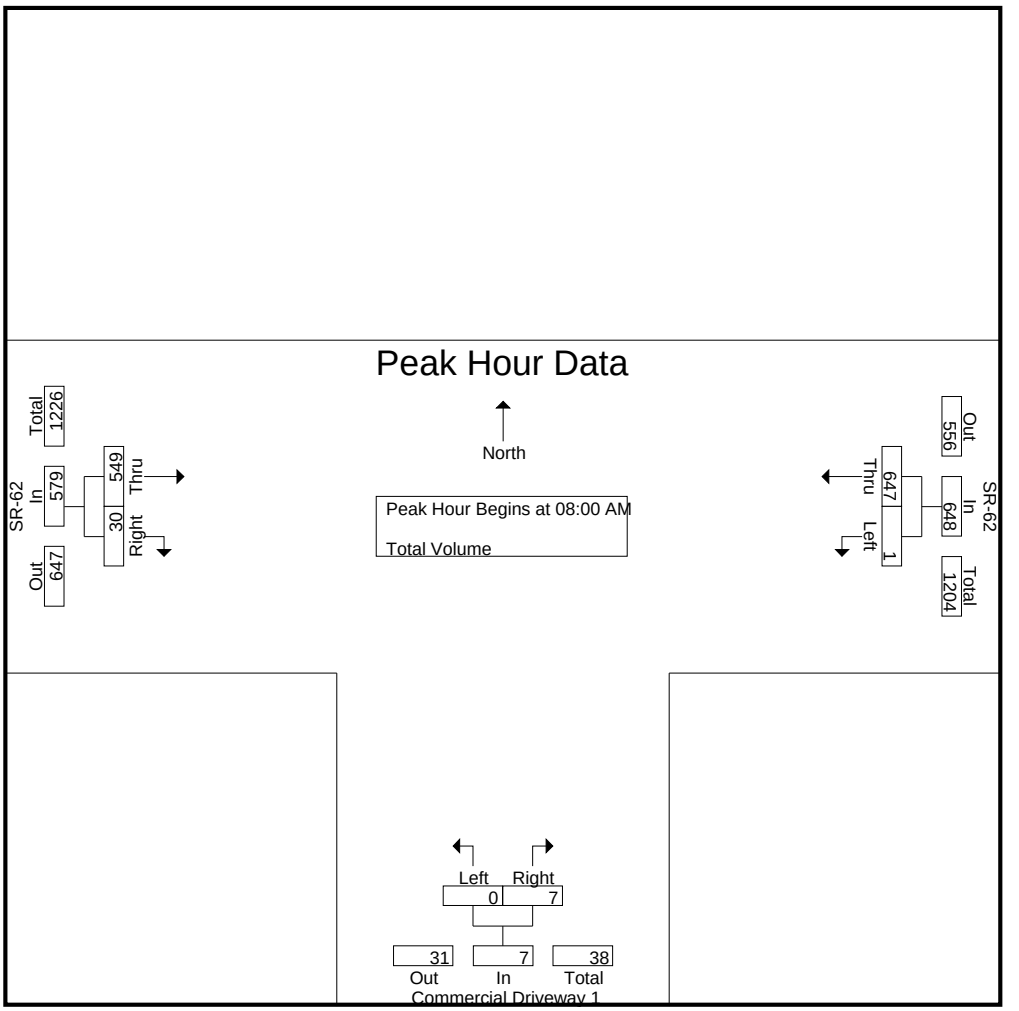
City of Yucca Valley
N/S: Commercial Driveway 1
E/W: SR-62
Weather: Clear

File Name : 08_YCV_DW1_SR62 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:45 AM			07:30 AM			08:00 AM		
+0 mins.	0	175	175	0	**3**	**3**	138	3	141
+15 mins.	0	134	134	0	0	0	118	8	126
+30 mins.	**1**	150	151	0	2	2	125	9	134
+45 mins.	0	**191**	**191**	0	3	3	**168**	**10**	**178**
Total Volume	1	650	651	0	8	8	549	30	579
% App. Total	0.2	99.8		0	100		94.8	5.2	
PHF	.250	.851	.852	.000	.667	.667	.817	.750	.813

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City of Yucca Valley
N/S: Commercial Driveway 1
E/W: SR-62
Weather: Clear

File Name : 08_YCV_DW1_SR62 PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	SR-62 Westbound			Commercial Driveway 1 Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
04:00 PM	0	194	194	0	8	8	178	12	190	392
04:15 PM	0	210	210	0	12	12	172	14	186	408
04:30 PM	0	215	215	0	6	6	176	17	193	414
04:45 PM	0	221	221	0	11	11	184	10	194	426
Total	0	840	840	0	37	37	710	53	763	1640
05:00 PM	0	220	220	0	10	10	196	10	206	436
05:15 PM	0	206	206	0	8	8	171	11	182	396
05:30 PM	0	157	157	0	10	10	185	9	194	361
05:45 PM	0	154	154	0	6	6	187	11	198	358
Total	0	737	737	0	34	34	739	41	780	1551
Grand Total	0	1577	1577	0	71	71	1449	94	1543	3191
Apprch %	0	100		0	100		93.9	6.1		
Total %	0	49.4	49.4	0	2.2	2.2	45.4	2.9	48.4	

	SR-62 Westbound			Commercial Driveway 1 Northbound			SR-62 Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:15 PM										
04:15 PM	0	210	210	0	**12**	**12**	172	14	186	408
04:30 PM	0	215	215	0	6	6	176	**17**	193	414
04:45 PM	0	**221**	**221**	0	11	11	184	10	194	426
05:00 PM	0	220	220	0	10	10	**196**	10	**206**	**436**
Total Volume	0	866	866	0	39	39	728	51	779	1684
% App. Total	0	100		0	100		93.5	6.5		
PHF	.000	.980	.980	.000	.813	.813	.929	.750	.945	.966

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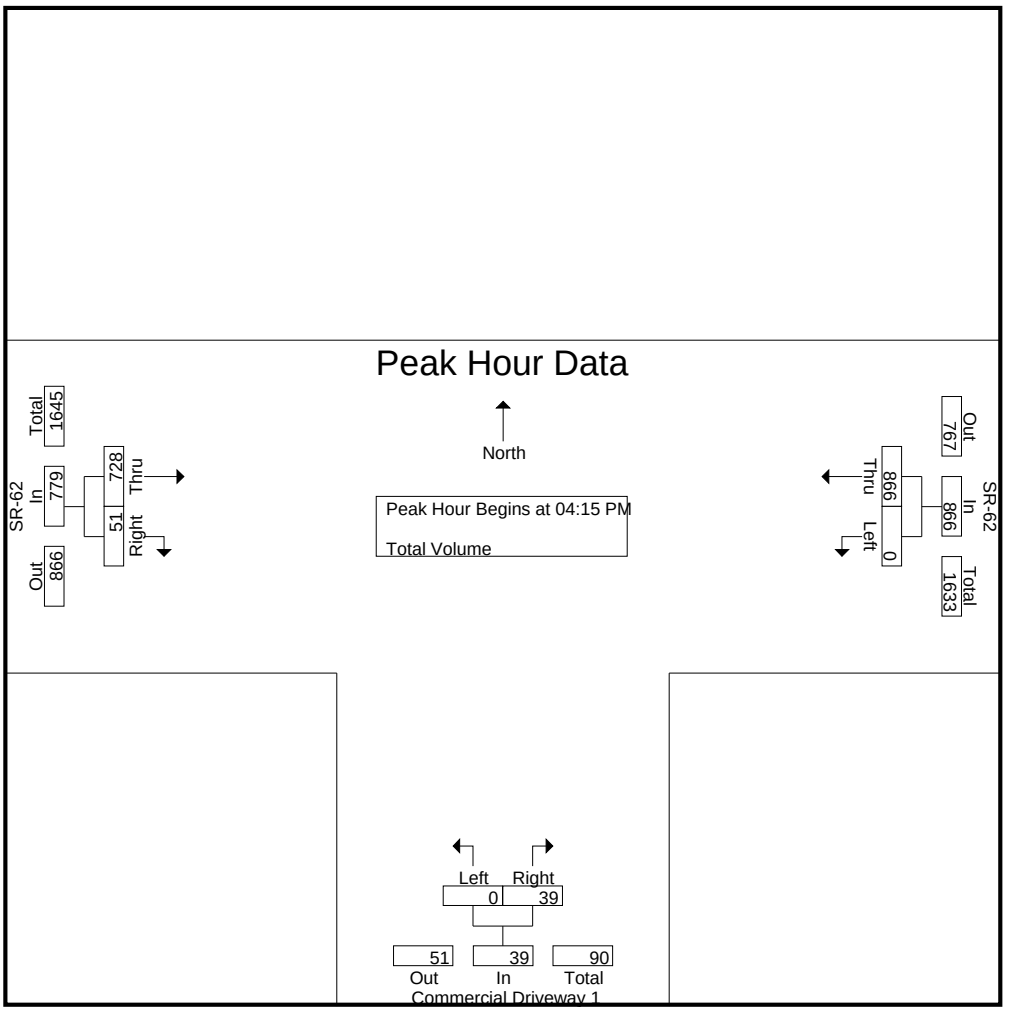
City of Yucca Valley
N/S: Commercial Driveway 1
E/W: SR-62
Weather: Clear

File Name : 08_YCV_DW1_SR62 PM
Site Code : 241081
Start Date : 12/11/2024



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:15 PM			04:15 PM			05:00 PM		
+0 mins.	0	210	210	0	**12**	**12**	**196**	10	**206**
+15 mins.	0	215	215	0	6	6	171	**11**	182
+30 mins.	0	**221**	**221**	0	11	11	185	9	194
+45 mins.	0	220	220	0	10	10	187	11	198
Total Volume	0	866	866	0	39	39	739	41	780
% App. Total	0	100		0	100		94.7	5.3	
PHF	.000	.980	.980	.000	.813	.813	.943	.932	.947

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City of Yucca Valley
N/S: West Commercial Access Road
E/W: Commercial Driveway 2
Weather: Clear

File Name : 09_YCV_W CAR_DW2 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

	West Commercial Access Road Southbound				Commercial Driveway Westbound				West Commercial Access Road Northbound				Commercial Driveway 2 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
07:00 AM	0	21	5	26	0	0	0	0	0	13	0	13	6	0	0	6	45
07:15 AM	1	16	5	22	0	0	1	1	2	7	0	9	4	0	1	5	37
07:30 AM	2	20	6	28	0	0	0	0	1	13	0	14	3	0	0	3	45
07:45 AM	0	36	6	42	0	0	0	0	0	13	0	13	5	0	0	5	60
Total	3	93	22	118	0	0	1	1	3	46	0	49	18	0	1	19	187
08:00 AM	1	28	10	39	0	0	1	1	0	14	0	14	4	0	0	4	58
08:15 AM	3	32	8	43	0	1	0	1	1	16	0	17	10	0	0	10	71
08:30 AM	5	26	10	41	0	0	0	0	1	23	0	24	5	0	1	6	71
08:45 AM	9	51	12	72	0	0	0	0	0	16	0	16	8	1	0	9	97
Total	18	137	40	195	0	1	1	2	2	69	0	71	27	1	1	29	297
Grand Total	21	230	62	313	0	1	2	3	5	115	0	120	45	1	2	48	484
Apprch %	6.7	73.5	19.8		0	33.3	66.7		4.2	95.8	0		93.8	2.1	4.2		
Total %	4.3	47.5	12.8	64.7	0	0.2	0.4	0.6	1	23.8	0	24.8	9.3	0.2	0.4	9.9	

	West Commercial Access Road Southbound				Commercial Driveway Westbound				West Commercial Access Road Northbound				Commercial Driveway 2 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 08:00 AM																	
08:00 AM	1	28	10	39	0	0	**1**	**1**	0	14	0	14	4	0	0	4	58
08:15 AM	3	32	8	43	0	**1**	0	1	**1**	16	0	17	**10**	0	0	**10**	71
08:30 AM	5	26	10	41	0	0	0	0	1	**23**	0	**24**	5	0	**1**	6	71
08:45 AM	**9**	**51**	**12**	**72**	0	0	0	0	0	16	0	16	8	**1**	0	9	**97**
Total Volume	18	137	40	195	0	1	1	2	2	69	0	71	27	1	1	29	297
% App. Total	9.2	70.3	20.5		0	50	50		2.8	97.2	0		93.1	3.4	3.4		
PHF	.500	.672	.833	.677	.000	.250	.250	.500	.500	.750	.000	.740	.675	.250	.250	.725	.765

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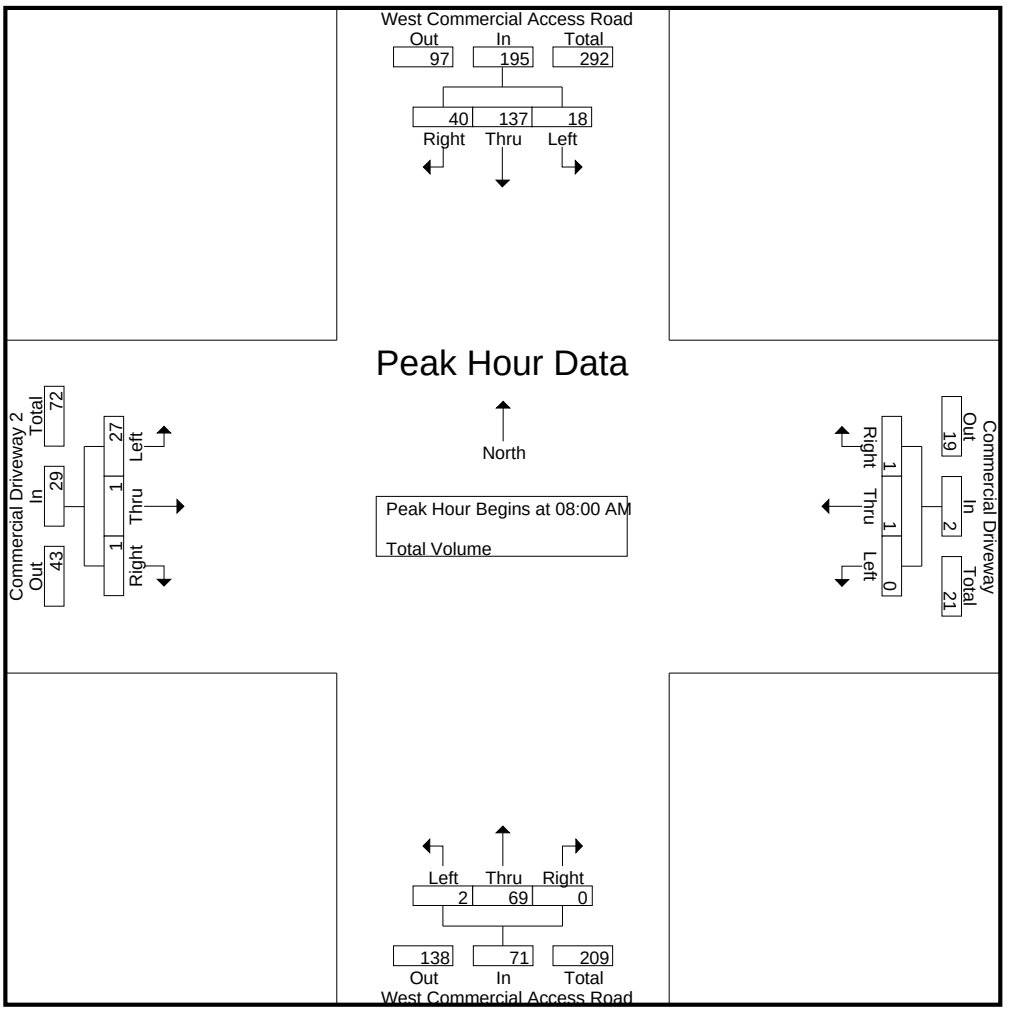
City of Yucca Valley
N/S: West Commercial Access Road
E/W: Commercial Driveway 2
Weather: Clear

File Name : 09_YCV_W CAR_DW2 AM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	08:00 AM				07:15 AM				08:00 AM				08:00 AM			
+0 mins.	1	28	10	39	0	0	**1**	**1**	0	14	0	14	4	0	0	4
+15 mins.	3	32	8	43	0	0	0	0	**1**	16	0	17	**10**	0	0	**10**
+30 mins.	5	26	10	41	0	0	0	0	1	**23**	0	**24**	5	0	**1**	6
+45 mins.	**9**	**51**	**12**	**72**	0	0	1	1	0	16	0	16	8	**1**	0	9
Total Volume	18	137	40	195	0	0	2	2	2	69	0	71	27	1	1	29
% App. Total	9.2	70.3	20.5		0	0	100		2.8	97.2	0		93.1	3.4	3.4	
PHF	.500	.672	.833	.677	.000	.000	.500	.500	.500	.750	.000	.740	.675	.250	.250	.725

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City of Yucca Valley
N/S: West Commercial Access Road
E/W: Commercial Driveway 2
Weather: Clear

File Name : 09_YCV_W CAR_DW2 PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 1

Groups Printed- Total Volume

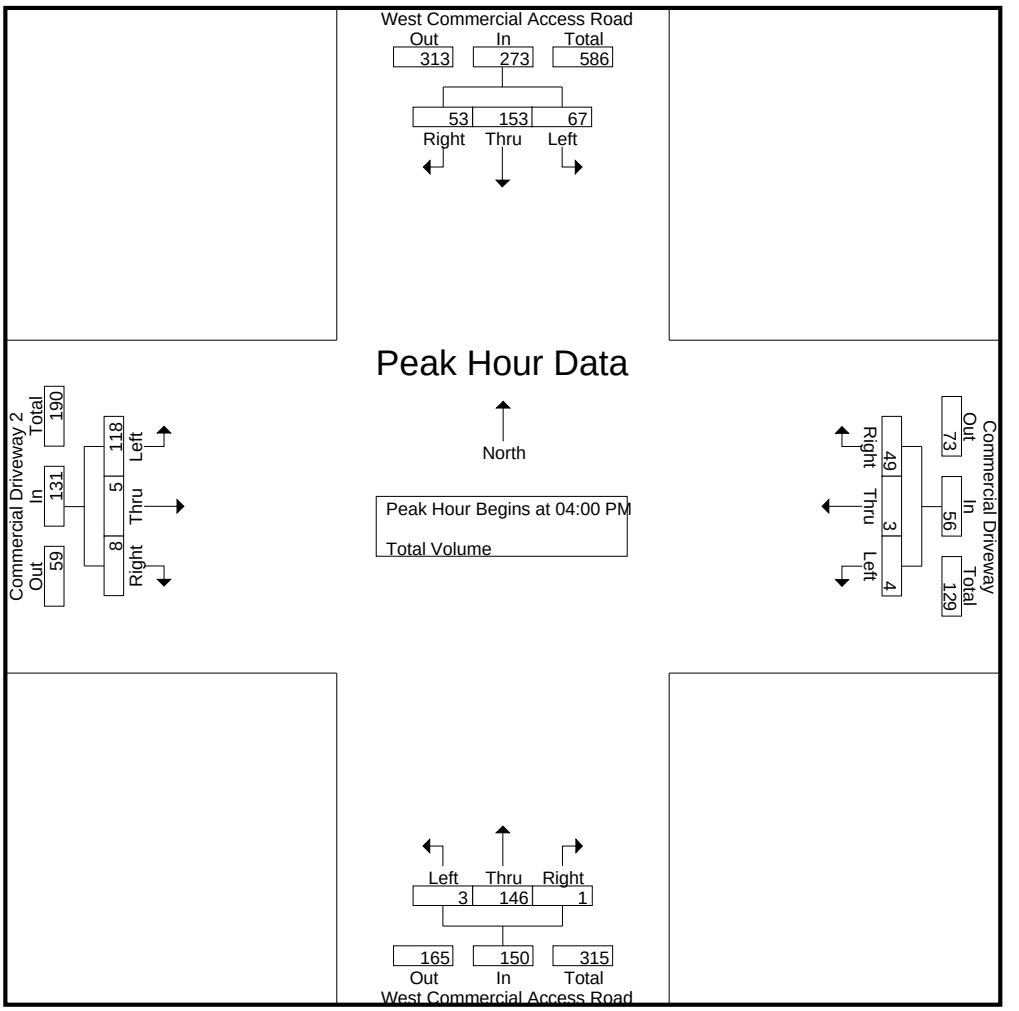
	West Commercial Access Road Southbound				Commercial Driveway Westbound				West Commercial Access Road Northbound				Commercial Driveway 2 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
04:00 PM	19	45	19	83	2	2	12	16	0	35	1	36	32	1	2	35	170
04:15 PM	15	27	8	50	0	1	13	14	0	30	0	30	37	3	0	40	134
04:30 PM	21	42	8	71	1	0	15	16	2	33	0	35	27	1	1	29	151
04:45 PM	12	39	18	69	1	0	9	10	1	48	0	49	22	0	5	27	155
Total	67	153	53	273	4	3	49	56	3	146	1	150	118	5	8	131	610
05:00 PM	25	32	21	78	1	1	13	15	0	35	2	37	20	0	1	21	151
05:15 PM	11	30	10	51	0	1	16	17	0	20	0	20	14	5	1	20	108
05:30 PM	20	40	16	76	0	1	10	11	2	37	2	41	26	3	0	29	157
05:45 PM	16	27	18	61	1	2	10	13	0	39	0	39	13	0	0	13	126
Total	72	129	65	266	2	5	49	56	2	131	4	137	73	8	2	83	542
Grand Total	139	282	118	539	6	8	98	112	5	277	5	287	191	13	10	214	1152
Apprch %	25.8	52.3	21.9		5.4	7.1	87.5		1.7	96.5	1.7		89.3	6.1	4.7		
Total %	12.1	24.5	10.2	46.8	0.5	0.7	8.5	9.7	0.4	24	0.4	24.9	16.6	1.1	0.9	18.6	

	West Commercial Access Road Southbound				Commercial Driveway Westbound				West Commercial Access Road Northbound				Commercial Driveway 2 Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:00 PM																	
04:00 PM	19	**45**	**19**	**83**	**2**	**2**	12	**16**	0	35	**1**	36	32	1	2	35	**170**
04:15 PM	15	27	8	50	0	1	13	14	0	30	0	30	**37**	**3**	0	**40**	134
04:30 PM	**21**	42	8	71	1	0	**15**	16	**2**	33	0	35	27	1	1	29	151
04:45 PM	12	39	18	69	1	0	9	10	1	**48**	0	**49**	22	0	**5**	27	155
Total Volume	67	153	53	273	4	3	49	56	3	146	1	150	118	5	8	131	610
% App. Total	24.5	56	19.4		7.1	5.4	87.5		2	97.3	0.7		90.1	3.8	6.1		
PHF	.798	.850	.697	.822	.500	.375	.817	.875	.375	.760	.250	.765	.797	.417	.400	.819	.897

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951) 268-6268

City of Yucca Valley
N/S: West Commercial Access Road
E/W: Commercial Driveway 2
Weather: Clear

File Name : 09_YCV_W CAR_DW2 PM
Site Code : 241081
Start Date : 12/11/2024
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

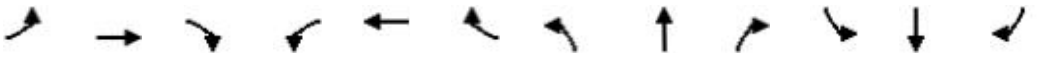
	04:45 PM				04:30 PM				04:15 PM				04:00 PM			
+0 mins.	12	39	18	69	**1**	0	15	16	0	30	0	30	32	1	2	35
+15 mins.	**25**	32	**21**	**78**	1	0	9	10	**2**	33	0	35	**37**	**3**	0	**40**
+30 mins.	11	30	10	51	1	**1**	13	15	1	**48**	0	**49**	27	1	1	29
+45 mins.	20	**40**	16	76	0	1	**16**	**17**	0	35	**2**	37	22	0	**5**	27
Total Volume	68	141	65	274	3	2	53	58	3	146	2	151	118	5	8	131
% App. Total	24.8	51.5	23.7		5.2	3.4	91.4		2	96.7	1.3		90.1	3.8	6.1	
PHF	.680	.881	.774	.878	.750	.500	.828	.853	.375	.760	.250	.770	.797	.417	.400	.819

APPENDIX C

INTERSECTION ANALYSIS WORKSHEETS

HCM 7th Signalized Intersection Summary
1: Twentynine Palms Hwy (SR-62) & Avalon Ave

09/16/2025



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	521	37	37	595	14	39	26	43	20	36	14
Future Volume (veh/h)	6	521	37	37	595	14	39	26	43	20	36	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	7	620	44	44	708	17	46	31	51	24	43	17
Peak Hour Factor	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	16	887	396	76	1006	449	152	734	622	49	703	596
Arrive On Green	0.01	0.25	0.25	0.04	0.28	0.28	0.04	0.39	0.39	0.03	0.38	0.38
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	3456	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	7	620	44	44	708	17	46	31	51	24	43	17
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1728	1870	1585	1781	1870	1585
Q Serve(g_s), s	0.2	9.9	1.3	1.5	11.2	0.5	0.8	0.6	1.3	0.8	0.9	0.4
Cycle Q Clear(g_c), s	0.2	9.9	1.3	1.5	11.2	0.5	0.8	0.6	1.3	0.8	0.9	0.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	16	887	396	76	1006	449	152	734	622	49	703	596
V/C Ratio(X)	0.43	0.70	0.11	0.58	0.70	0.04	0.30	0.04	0.08	0.49	0.06	0.03
Avail Cap(c_a), veh/h	185	1790	798	271	1961	874	414	734	622	242	703	596
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.8	21.3	18.1	29.4	20.1	16.2	29.0	11.7	11.9	30.0	12.5	12.3
Incr Delay (d2), s/veh	16.8	1.0	0.1	6.8	0.9	0.0	1.1	0.1	0.3	7.6	0.2	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	3.6	0.4	0.7	4.0	0.2	0.3	0.2	0.4	0.4	0.4	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	47.7	22.3	18.2	36.1	21.0	16.3	30.1	11.8	12.2	37.6	12.6	12.4
LnGrp LOS	D	C	B	D	C	B	C	B	B	D	B	B
Approach Vol, veh/h		671			769			128			84	
Approach Delay, s/veh		22.3			21.7			18.5			19.7	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.2	29.0	7.2	20.1	7.3	28.0	5.1	22.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.5	22.5	9.5	31.5	7.5	23.5	6.5	34.5
Max Q Clear Time (g_c+I1), s	2.8	3.3	3.5	11.9	2.8	2.9	2.2	13.2
Green Ext Time (p_c), s	0.0	0.2	0.0	3.7	0.0	0.2	0.0	4.3

Intersection Summary	
HCM 7th Control Delay, s/veh	21.6
HCM 7th LOS	C

Intersection	
Intersection Delay, s/veh	9.2
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	25	3	4	25	3	10	21	104	61	3	70	27
Future Vol, veh/h	25	3	4	25	3	10	21	104	61	3	70	27
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	34	4	5	34	4	14	28	141	82	4	95	36
Number of Lanes	0	1	1	0	1	1	1	1	0	1	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	3	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	3	2	2
HCM Control Delay, s/veh	9.1	8.9	9.6	8.5
HCM LOS	A	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	89%	0%	89%	0%	100%	0%	0%
Vol Thru, %	0%	63%	11%	0%	11%	0%	0%	100%	0%
Vol Right, %	0%	37%	0%	100%	0%	100%	0%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	21	165	28	4	28	10	3	70	27
LT Vol	21	0	25	0	25	0	3	0	0
Through Vol	0	104	3	0	3	0	0	70	0
RT Vol	0	61	0	4	0	10	0	0	27
Lane Flow Rate	28	223	38	5	38	14	4	95	36
Geometry Grp	6	6	6	6	6	6	6	6	6
Degree of Util (X)	0.044	0.3	0.064	0.007	0.064	0.019	0.007	0.14	0.047
Departure Headway (Hd)	5.61	4.849	6.109	4.959	6.094	4.944	5.834	5.332	4.629
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	638	740	585	718	586	721	613	672	771
Service Time	3.347	2.586	3.865	2.715	3.847	2.696	3.576	3.073	2.37
HCM Lane V/C Ratio	0.044	0.301	0.065	0.007	0.065	0.019	0.007	0.141	0.047
HCM Control Delay, s/veh	8.6	9.7	9.3	7.8	9.3	7.8	8.6	8.9	7.6
HCM Lane LOS	A	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0.1	1.3	0.2	0	0.2	0.1	0	0.5	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	454	76	118	586	48	46
Future Volume (veh/h)	454	76	118	586	48	46
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	528	88	137	681	56	53
Peak Hour Factor	0.86	0.86	0.86	0.86	0.86	0.86
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	996	1016	182	1361	1542	870
Arrive On Green	0.20	0.20	0.10	0.38	0.45	0.45
Sat Flow, veh/h	5274	1585	1781	3647	3456	1585
Grp Volume(v), veh/h	528	88	137	681	56	53
Grp Sat Flow(s),veh/h/ln	1702	1585	1781	1777	1728	1585
Q Serve(g_s), s	4.9	1.1	3.9	7.7	0.5	0.8
Cycle Q Clear(g_c), s	4.9	1.1	3.9	7.7	0.5	0.8
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	996	1016	182	1361	1542	870
V/C Ratio(X)	0.53	0.09	0.75	0.50	0.04	0.06
Avail Cap(c_a), veh/h	2763	1565	829	3880	1542	870
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.0	3.6	23.0	12.4	8.2	5.6
Incr Delay (d2), s/veh	0.4	0.0	6.1	0.3	0.0	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	0.8	1.7	2.2	0.2	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	19.5	3.6	29.1	12.7	8.3	5.7
LnGrp LOS	B	A	C	B	A	A
Approach Vol, veh/h	616			818	109	
Approach Delay, s/veh	17.2			15.4	7.0	
Approach LOS	B			B	A	

Timer - Assigned Phs	2	3	4		8
Phs Duration (G+Y+Rc), s	28.0	9.9	14.8		24.7
Change Period (Y+Rc), s	4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	23.5	24.5	28.5		57.5
Max Q Clear Time (g_c+I1), s	2.8	5.9	6.9		9.7
Green Ext Time (p_c), s	0.3	0.3	3.4		4.6

Intersection Summary	
HCM 7th Control Delay, s/veh	15.5
HCM 7th LOS	B

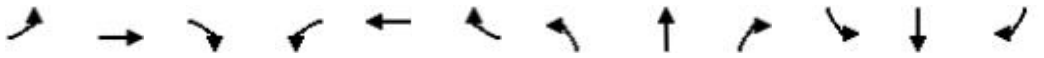
Intersection	
Int Delay, s/veh	0.5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	521	2	0	689	0	59
Future Vol, veh/h	521	2	0	689	0	59
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	87	87	87	87	87	87
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	599	2	0	792	0	68

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	299
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	594
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	594
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	11.84
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	594	-	-	-
HCM Lane V/C Ratio	0.114	-	-	-
HCM Control Delay (s/veh)	11.8	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.4	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	57	482	21	19	548	44	32	32	15	54	44	108
Future Volume (veh/h)	57	482	21	19	548	44	32	32	15	54	44	108
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	64	542	24	21	616	49	36	36	17	61	49	121
Peak Hour Factor	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89	0.89
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	98	1008	450	44	900	402	611	868	735	734	222	547
Arrive On Green	0.05	0.28	0.28	0.02	0.25	0.25	0.46	0.46	0.46	0.46	0.46	0.46
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	1215	1870	1585	1351	478	1180
Grp Volume(v), veh/h	64	542	24	21	616	49	36	36	17	61	0	170
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1215	1870	1585	1351	0	1658
Q Serve(g_s), s	2.1	7.6	0.7	0.7	9.3	1.4	1.1	0.6	0.3	1.5	0.0	3.6
Cycle Q Clear(g_c), s	2.1	7.6	0.7	0.7	9.3	1.4	4.7	0.6	0.3	2.2	0.0	3.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.71
Lane Grp Cap(c), veh/h	98	1008	450	44	900	402	611	868	735	734	0	769
V/C Ratio(X)	0.65	0.54	0.05	0.48	0.68	0.12	0.06	0.04	0.02	0.08	0.00	0.22
Avail Cap(c_a), veh/h	436	2368	1056	285	2068	923	611	868	735	734	0	769
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	27.5	17.9	15.4	28.5	20.0	17.0	10.9	8.7	8.6	9.3	0.0	9.5
Incr Delay (d2), s/veh	7.2	0.4	0.0	7.8	0.9	0.1	0.2	0.1	0.1	0.2	0.0	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	2.5	0.2	0.4	3.2	0.4	0.2	0.2	0.1	0.4	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.6	18.4	15.5	36.4	20.9	17.2	11.1	8.8	8.7	9.5	0.0	10.2
LnGrp LOS	C	B	B	D	C	B	B	A	A	A		B
Approach Vol, veh/h		630			686			89			231	
Approach Delay, s/veh		19.9			21.1			9.7			10.0	
Approach LOS		B			C			A			A	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	32.0	6.0	21.3	32.0	7.8	19.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	27.5	9.5	39.5	27.5	14.5	34.5
Max Q Clear Time (g_c+I1), s	6.7	2.7	9.6	5.6	4.1	11.3
Green Ext Time (p_c), s	0.2	0.0	3.3	1.0	0.1	3.7

Intersection Summary	
HCM 7th Control Delay, s/veh	18.5
HCM 7th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	30	177	19	56	227	30	42	65	151	16	44	28
Future Volume (veh/h)	30	177	19	56	227	30	42	65	151	16	44	28
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	41	239	26	76	307	41	57	88	204	22	59	38
Peak Hour Factor	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74	0.74
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	73	363	308	106	398	337	91	790	670	46	742	629
Arrive On Green	0.04	0.19	0.19	0.06	0.21	0.21	0.05	0.42	0.42	0.03	0.40	0.40
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	41	239	26	76	307	41	57	88	204	22	59	38
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Q Serve(g_s), s	1.4	7.1	0.8	2.5	9.3	1.3	1.9	1.7	5.2	0.7	1.2	0.9
Cycle Q Clear(g_c), s	1.4	7.1	0.8	2.5	9.3	1.3	1.9	1.7	5.2	0.7	1.2	0.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	73	363	308	106	398	337	91	790	670	46	742	629
V/C Ratio(X)	0.56	0.66	0.08	0.72	0.77	0.12	0.63	0.11	0.30	0.48	0.08	0.06
Avail Cap(c_a), veh/h	251	852	722	339	945	801	280	790	670	221	742	629
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.4	22.5	19.9	27.9	22.4	19.2	28.1	10.6	11.6	29.0	11.3	11.2
Incr Delay (d2), s/veh	6.5	2.0	0.1	8.6	3.2	0.2	6.9	0.3	1.2	7.7	0.2	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	2.9	0.3	1.2	3.7	0.4	0.9	0.6	1.5	0.4	0.5	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.9	24.5	20.0	36.5	25.6	19.4	35.0	10.9	12.7	36.8	11.5	11.4
LnGrp LOS	C	C	C	D	C	B	D	B	B	D	B	B
Approach Vol, veh/h		306			424			349			119	
Approach Delay, s/veh		25.5			26.9			15.9			16.2	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.0	30.0	8.1	16.2	7.6	28.5	7.0	17.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	7.5	25.5	11.5	27.5	9.5	23.5	8.5	30.5
Max Q Clear Time (g_c+I1), s	2.3	7.2	4.5	9.1	3.9	3.2	3.4	11.3
Green Ext Time (p_c), s	0.0	1.0	0.1	1.1	0.0	0.3	0.0	1.5

Intersection Summary	
HCM 7th Control Delay, s/veh	22.3
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	3.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	103	226	0	0	172	16	0	0	0	20	0	98
Future Vol, veh/h	103	226	0	0	172	16	0	0	0	20	0	98
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	220	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	66	66	66	66	66	66	66	66	66	66	66	66
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	156	342	0	0	261	24	0	0	0	30	0	148

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	285	0	-	-	-	0	915	939	342	927	-	273
Stage 1	-	-	-	-	-	-	655	655	-	273	-	-
Stage 2	-	-	-	-	-	-	261	285	-	655	-	-
Critical Hdwy	4.12	-	-	-	-	-	7.12	6.52	6.22	7.12	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Follow-up Hdwy	2.218	-	-	-	-	-	3.518	4.018	3.318	3.518	-	3.318
Pot Cap-1 Maneuver	1277	-	0	0	-	-	253	264	700	249	0	766
Stage 1	-	-	0	0	-	-	455	463	-	733	0	-
Stage 2	-	-	0	0	-	-	744	676	-	455	0	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1277	-	-	-	-	-	173	224	700	211	-	766
Mov Cap-2 Maneuver	-	-	-	-	-	-	173	224	-	211	-	-
Stage 1	-	-	-	-	-	-	387	393	-	733	-	-
Stage 2	-	-	-	-	-	-	600	676	-	387	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	2.57	0	0	13.21
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	-	564	-	-	-	211	766
HCM Lane V/C Ratio	-	0.122	-	-	-	0.144	0.194
HCM Control Delay (s/veh)	0	8.2	0	-	-	24.9	10.8
HCM Lane LOS	A	A	A	-	-	C	B
HCM 95th %tile Q(veh)	-	0.4	-	-	-	0.5	0.7

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	549	30	0	647	0	7
Future Vol, veh/h	549	30	0	647	0	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	88	88	88	88	88	88
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	624	34	0	735	0	8

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	312
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	583
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	583
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	11.26
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	583	-	-	-
HCM Lane V/C Ratio	0.014	-	-	-
HCM Control Delay (s/veh)	11.3	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

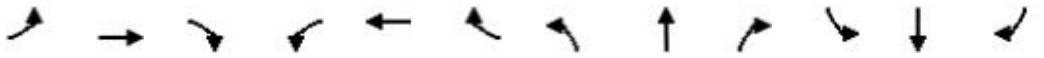
Intersection	
Int Delay, s/veh	1.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	27	1	1	0	1	1	2	69	0	18	137	40
Future Vol, veh/h	27	1	1	0	1	1	2	69	0	18	137	40
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	Free
Storage Length	-	-	-	-	-	-	-	-	-	0	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	76	76	76	76	76	76	76	76	76	76	76	76
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	36	1	1	0	1	1	3	91	0	24	180	53

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	279	324	180	324	324	45	180	0	0	91	0	0
Stage 1	228	228	-	96	96	-	-	-	-	-	-	-
Stage 2	51	96	-	228	228	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.23	7.33	6.53	6.93	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	662	593	862	617	593	1015	1394	-	-	1503	-	0
Stage 1	774	715	-	900	815	-	-	-	-	-	-	0
Stage 2	956	815	-	774	715	-	-	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	648	583	862	604	583	1015	1394	-	-	1503	-	-
Mov Cap-2 Maneuver	648	583	-	604	583	-	-	-	-	-	-	-
Stage 1	762	704	-	899	813	-	-	-	-	-	-	-
Stage 2	951	813	-	759	704	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.87	9.88	0.23	0.86
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT
Capacity (veh/h)	101	-	-	651	740	1503	-
HCM Lane V/C Ratio	0.002	-	-	0.059	0.004	0.016	-
HCM Control Delay (s/veh)	7.6	0	-	10.9	9.9	7.4	-
HCM Lane LOS	A	A	-	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.2	0	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	31	722	108	62	768	36	107	39	44	20	23	12
Future Volume (veh/h)	31	722	108	62	768	36	107	39	44	20	23	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	32	752	112	65	800	38	111	41	46	21	24	12
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	60	1039	463	94	1107	494	229	665	563	43	586	497
Arrive On Green	0.03	0.29	0.29	0.05	0.31	0.31	0.07	0.36	0.36	0.02	0.31	0.31
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	3456	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	32	752	112	65	800	38	111	41	46	21	24	12
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1728	1870	1585	1781	1870	1585
Q Serve(g_s), s	1.2	12.4	3.5	2.3	13.1	1.1	2.0	0.9	1.3	0.8	0.6	0.3
Cycle Q Clear(g_c), s	1.2	12.4	3.5	2.3	13.1	1.1	2.0	0.9	1.3	0.8	0.6	0.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	60	1039	463	94	1107	494	229	665	563	43	586	497
V/C Ratio(X)	0.53	0.72	0.24	0.69	0.72	0.08	0.48	0.06	0.08	0.49	0.04	0.02
Avail Cap(c_a), veh/h	204	1766	787	286	1928	860	449	665	563	177	586	497
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.1	20.8	17.6	30.4	20.0	15.9	29.5	13.9	14.0	31.5	15.6	15.5
Incr Delay (d2), s/veh	7.2	1.0	0.3	8.6	0.9	0.1	1.6	0.2	0.3	8.2	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	4.5	1.1	1.1	4.6	0.3	0.8	0.4	0.4	0.4	0.2	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.3	21.8	17.9	39.0	20.9	16.0	31.1	14.1	14.3	39.7	15.8	15.6
LnGrp LOS	D	C	B	D	C	B	C	B	B	D	B	B
Approach Vol, veh/h		896			903			198			57	
Approach Delay, s/veh		21.9			22.0			23.6			24.6	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.1	27.7	8.0	23.6	8.8	25.0	6.7	24.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	6.5	22.5	10.5	32.5	8.5	20.5	7.5	35.5
Max Q Clear Time (g_c+I1), s	2.8	3.3	4.3	14.4	4.0	2.6	3.2	15.1
Green Ext Time (p_c), s	0.0	0.2	0.0	4.7	0.1	0.1	0.0	5.0

Intersection Summary	
HCM 7th Control Delay, s/veh	22.2
HCM 7th LOS	C

Intersection	
Intersection Delay, s/veh	10.3
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	41	4	23	115	2	11	12	121	86	5	148	25
Future Vol, veh/h	41	4	23	115	2	11	12	121	86	5	148	25
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	43	4	24	120	2	11	13	126	90	5	154	26
Number of Lanes	0	1	1	0	1	1	1	1	0	1	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	3	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	3	2	2
HCM Control Delay, s/veh	9.4	10.8	10.6	10
HCM LOS	A	B	B	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	91%	0%	98%	0%	100%	0%	0%
Vol Thru, %	0%	58%	9%	0%	2%	0%	0%	100%	0%
Vol Right, %	0%	42%	0%	100%	0%	100%	0%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	12	207	45	23	117	11	5	148	25
LT Vol	12	0	41	0	115	0	5	0	0
Through Vol	0	121	4	0	2	0	0	148	0
RT Vol	0	86	0	23	0	11	0	0	25
Lane Flow Rate	13	216	47	24	122	11	5	154	26
Geometry Grp	6	6	6	6	6	6	6	6	6
Degree of Util (X)	0.022	0.324	0.086	0.036	0.218	0.017	0.009	0.248	0.037
Departure Headway (Hd)	6.212	5.415	6.584	5.421	6.443	5.245	6.295	5.791	5.086
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	579	666	545	661	558	683	571	623	707
Service Time	3.921	3.124	4.316	3.153	4.171	2.973	4.006	3.502	2.797
HCM Lane V/C Ratio	0.022	0.324	0.086	0.036	0.219	0.016	0.009	0.247	0.037
HCM Control Delay, s/veh	9.1	10.7	9.9	8.4	11	8.1	9.1	10.4	8
HCM Lane LOS	A	B	A	A	B	A	A	B	A
HCM 95th-tile Q	0.1	1.4	0.3	0.1	0.8	0.1	0	1	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	659	76	180	729	126	171
Future Volume (veh/h)	659	76	180	729	126	171
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	686	79	188	759	131	178
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1141	1008	243	1548	1426	870
Arrive On Green	0.22	0.22	0.14	0.44	0.41	0.41
Sat Flow, veh/h	5274	1585	1781	3647	3456	1585
Grp Volume(v), veh/h	686	79	188	759	131	178
Grp Sat Flow(s),veh/h/ln	1702	1585	1781	1777	1728	1585
Q Serve(g_s), s	7.2	1.1	6.0	9.1	1.4	3.4
Cycle Q Clear(g_c), s	7.2	1.1	6.0	9.1	1.4	3.4
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1141	1008	243	1548	1426	870
V/C Ratio(X)	0.60	0.08	0.77	0.49	0.09	0.20
Avail Cap(c_a), veh/h	2280	1362	765	3383	1426	870
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	20.7	4.1	24.7	12.0	10.6	6.8
Incr Delay (d2), s/veh	0.5	0.0	5.2	0.2	0.1	0.5
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	0.8	2.5	2.7	0.5	0.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	21.2	4.2	30.0	12.3	10.8	7.3
LnGrp LOS	C	A	C	B	B	A
Approach Vol, veh/h	765			947	309	
Approach Delay, s/veh	19.4			15.8	8.8	
Approach LOS	B			B	A	

Timer - Assigned Phs	2	3	4		8
Phs Duration (G+Y+Rc), s	29.0	12.6	17.8		30.4
Change Period (Y+Rc), s	4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	24.5	25.5	26.5		56.5
Max Q Clear Time (g_c+I1), s	5.4	8.0	9.2		11.1
Green Ext Time (p_c), s	1.0	0.4	4.1		5.3

Intersection Summary	
HCM 7th Control Delay, s/veh	16.1
HCM 7th LOS	B

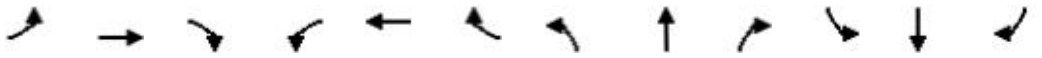
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	839	5	0	905	0	50
Future Vol, veh/h	839	5	0	905	0	50
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	912	5	0	984	0	54

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	456
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	472
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	472
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	13.62
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	472	-	-	-
HCM Lane V/C Ratio	0.115	-	-	-
HCM Control Delay (s/veh)	13.6	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.4	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	132	691	22	15	795	72	23	28	17	63	21	80
Future Volume (veh/h)	132	691	22	15	795	72	23	28	17	63	21	80
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	133	698	22	15	803	73	23	28	17	64	21	81
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	174	1403	626	33	1121	500	537	686	581	603	124	477
Arrive On Green	0.10	0.39	0.39	0.02	0.32	0.32	0.37	0.37	0.37	0.37	0.37	0.37
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	1293	1870	1585	1361	337	1300
Grp Volume(v), veh/h	133	698	22	15	803	73	23	28	17	64	0	102
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1293	1870	1585	1361	0	1636
Q Serve(g_s), s	4.5	9.1	0.5	0.5	12.3	2.0	0.8	0.6	0.4	1.9	0.0	2.6
Cycle Q Clear(g_c), s	4.5	9.1	0.5	0.5	12.3	2.0	3.3	0.6	0.4	2.5	0.0	2.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.79
Lane Grp Cap(c), veh/h	174	1403	626	33	1121	500	537	686	581	603	0	600
V/C Ratio(X)	0.77	0.50	0.04	0.46	0.72	0.15	0.04	0.04	0.03	0.11	0.00	0.17
Avail Cap(c_a), veh/h	508	2752	1227	189	2114	943	537	686	581	603	0	600
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	27.0	14.0	11.4	29.8	18.6	15.1	14.2	12.5	12.4	13.3	0.0	13.1
Incr Delay (d2), s/veh	6.8	0.3	0.0	9.7	0.9	0.1	0.1	0.1	0.1	0.4	0.0	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	2.8	0.1	0.3	4.1	0.6	0.2	0.2	0.1	0.5	0.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.8	14.3	11.4	39.5	19.4	15.2	14.4	12.6	12.5	13.7	0.0	13.7
LnGrp LOS	C	B	B	D	B	B	B	B	B	B		B
Approach Vol, veh/h		853			891			68			166	
Approach Delay, s/veh		17.2			19.4			13.2			13.7	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	2	3	4	6	7	8
Phs Duration (G+Y+Rc), s	27.0	5.6	28.7	27.0	10.5	23.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	22.5	6.5	47.5	22.5	17.5	36.5
Max Q Clear Time (g_c+I1), s	5.3	2.5	11.1	4.6	6.5	14.3
Green Ext Time (p_c), s	0.1	0.0	4.6	0.6	0.2	5.1

Intersection Summary	
HCM 7th Control Delay, s/veh	17.8
HCM 7th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	54	198	51	84	238	51	46	101	94	64	132	82
Future Volume (veh/h)	54	198	51	84	238	51	46	101	94	64	132	82
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	56	206	53	88	248	53	48	105	98	67	138	85
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	90	309	262	115	335	284	82	776	657	100	795	673
Arrive On Green	0.05	0.17	0.17	0.06	0.18	0.18	0.05	0.41	0.41	0.06	0.42	0.42
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	56	206	53	88	248	53	48	105	98	67	138	85
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Q Serve(g_s), s	1.8	6.2	1.7	2.9	7.5	1.7	1.6	2.1	2.3	2.2	2.8	2.0
Cycle Q Clear(g_c), s	1.8	6.2	1.7	2.9	7.5	1.7	1.6	2.1	2.3	2.2	2.8	2.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	90	309	262	115	335	284	82	776	657	100	795	673
V/C Ratio(X)	0.62	0.67	0.20	0.77	0.74	0.19	0.59	0.14	0.15	0.67	0.17	0.13
Avail Cap(c_a), veh/h	282	732	621	401	857	726	282	776	657	341	795	673
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.9	23.5	21.6	27.6	23.3	20.9	28.1	10.9	11.0	27.8	10.7	10.5
Incr Delay (d2), s/veh	6.8	2.5	0.4	10.2	3.2	0.3	6.5	0.4	0.5	7.6	0.5	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	2.6	0.6	1.4	3.1	0.6	0.7	0.7	0.7	1.1	1.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.8	26.0	22.0	37.9	26.6	21.3	34.6	11.3	11.4	35.4	11.2	10.9
LnGrp LOS	C	C	C	D	C	C	C	B	B	D	B	B
Approach Vol, veh/h		315			389			251			290	
Approach Delay, s/veh		26.9			28.4			15.8			16.7	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.9	29.4	8.4	14.4	7.3	30.0	7.5	15.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	11.5	23.5	13.5	23.5	9.5	25.5	9.5	27.5
Max Q Clear Time (g_c+I1), s	4.3	4.3	4.9	8.2	3.6	4.8	3.8	9.5
Green Ext Time (p_c), s	0.1	0.7	0.1	1.0	0.0	0.9	0.0	1.2

Intersection Summary	
HCM 7th Control Delay, s/veh	22.7
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	28	256	0	0	261	13	0	0	0	26	0	41
Future Vol, veh/h	28	256	0	0	261	13	0	0	0	26	0	41
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	220	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	94	94	94	94	94	94	94	94	94	94	94	94
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	30	272	0	0	278	14	0	0	0	28	0	44

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	291	0	-	-	-	0	610	623	272	616	-	285
Stage 1	-	-	-	-	-	-	332	332	-	285	-	-
Stage 2	-	-	-	-	-	-	278	291	-	332	-	-
Critical Hdwy	4.12	-	-	-	-	-	7.12	6.52	6.22	7.12	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Follow-up Hdwy	2.218	-	-	-	-	-	3.518	4.018	3.318	3.518	-	3.318
Pot Cap-1 Maneuver	1270	-	0	0	-	-	407	402	766	402	0	754
Stage 1	-	-	0	0	-	-	682	645	-	723	0	-
Stage 2	-	-	0	0	-	-	729	671	-	682	0	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1270	-	-	-	-	-	373	391	766	391	-	754
Mov Cap-2 Maneuver	-	-	-	-	-	-	373	391	-	391	-	-
Stage 1	-	-	-	-	-	-	663	627	-	723	-	-
Stage 2	-	-	-	-	-	-	687	671	-	663	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.78	0	0	11.94
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	-	177	-	-	-	391	754
HCM Lane V/C Ratio	-	0.023	-	-	-	0.071	0.058
HCM Control Delay (s/veh)	0	7.9	0	-	-	14.9	10.1
HCM Lane LOS	A	A	A	-	-	B	B
HCM 95th %tile Q(veh)	-	0.1	-	-	-	0.2	0.2

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	728	51	0	866	0	39
Future Vol, veh/h	728	51	0	866	0	39
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	97	97	97	97	97	97
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	751	53	0	893	0	40

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	375
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	531
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	531
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	12.33
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	531	-	-	-
HCM Lane V/C Ratio	0.076	-	-	-
HCM Control Delay (s/veh)	12.3	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.2	-	-	-

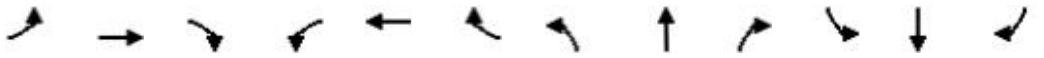
Intersection	
Int Delay, s/veh	5.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	118	5	8	4	3	49	3	146	1	67	153	53
Future Vol, veh/h	118	5	8	4	3	49	3	146	1	67	153	53
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	Free
Storage Length	-	-	-	-	-	-	-	-	-	0	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	90	90	90	90	90	90	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	131	6	9	4	3	54	3	162	1	74	170	59

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	408	489	170	491	488	82	170	0	0	163	0	0
Stage 1	319	319	-	169	169	-	-	-	-	-	-	-
Stage 2	89	170	-	322	319	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.23	7.33	6.53	6.93	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	540	479	873	474	479	962	1406	-	-	1414	-	0
Stage 1	692	652	-	816	758	-	-	-	-	-	-	0
Stage 2	908	757	-	689	652	-	-	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	478	453	873	438	453	962	1406	-	-	1414	-	-
Mov Cap-2 Maneuver	478	453	-	438	453	-	-	-	-	-	-	-
Stage 1	655	618	-	814	756	-	-	-	-	-	-	-
Stage 2	851	756	-	641	618	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	15.4	9.63	0.17	2.34
HCM LOS	C	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT
Capacity (veh/h)	71	-	-	491	840	1414	-
HCM Lane V/C Ratio	0.002	-	-	0.297	0.074	0.053	-
HCM Control Delay (s/veh)	7.6	0	-	15.4	9.6	7.7	-
HCM Lane LOS	A	A	-	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	1.2	0.2	0.2	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	542	38	38	619	15	41	27	45	21	37	15
Future Volume (veh/h)	6	542	38	38	619	15	41	27	45	21	37	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	6	571	40	40	652	16	43	28	47	22	39	16
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	14	836	373	72	951	424	147	754	639	45	722	612
Arrive On Green	0.01	0.24	0.24	0.04	0.27	0.27	0.04	0.40	0.40	0.03	0.39	0.39
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	3456	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	6	571	40	40	652	16	43	28	47	22	39	16
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1728	1870	1585	1781	1870	1585
Q Serve(g_s), s	0.2	8.9	1.2	1.3	10.0	0.5	0.7	0.6	1.1	0.7	0.8	0.4
Cycle Q Clear(g_c), s	0.2	8.9	1.2	1.3	10.0	0.5	0.7	0.6	1.1	0.7	0.8	0.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	14	836	373	72	951	424	147	754	639	45	722	612
V/C Ratio(X)	0.43	0.68	0.11	0.56	0.69	0.04	0.29	0.04	0.07	0.48	0.05	0.03
Avail Cap(c_a), veh/h	190	1839	820	278	2015	899	426	754	639	249	722	612
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.1	21.2	18.3	28.7	20.0	16.5	28.3	11.0	11.2	29.3	11.7	11.6
Incr Delay (d2), s/veh	19.0	1.0	0.1	6.6	0.9	0.0	1.1	0.1	0.2	7.8	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	3.2	0.4	0.6	3.5	0.1	0.3	0.2	0.3	0.4	0.3	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	49.0	22.2	18.4	35.2	20.9	16.5	29.3	11.1	11.4	37.0	11.9	11.7
LnGrp LOS	D	C	B	D	C	B	C	B	B	D	B	B
Approach Vol, veh/h		617			708			118			77	
Approach Delay, s/veh		22.2			21.6			17.9			19.0	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.1	29.0	7.0	18.8	7.1	28.0	5.0	20.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.5	22.5	9.5	31.5	7.5	23.5	6.5	34.5
Max Q Clear Time (g_c+I1), s	2.7	3.1	3.3	10.9	2.7	2.8	2.2	12.0
Green Ext Time (p_c), s	0.0	0.2	0.0	3.4	0.0	0.1	0.0	4.0

Intersection Summary	
HCM 7th Control Delay, s/veh	21.4
HCM 7th LOS	C

Intersection	
Intersection Delay, s/veh	8.6
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	26	3	4	26	3	10	22	108	63	3	73	28
Future Vol, veh/h	26	3	4	26	3	10	22	108	63	3	73	28
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	27	3	4	27	3	11	23	114	66	3	77	29
Number of Lanes	0	1	1	0	1	1	1	1	0	1	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	3	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	3	2	2
HCM Control Delay, s/veh	8.7	8.5	8.8	8.2
HCM LOS	A	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	90%	0%	90%	0%	100%	0%	0%
Vol Thru, %	0%	63%	10%	0%	10%	0%	0%	100%	0%
Vol Right, %	0%	37%	0%	100%	0%	100%	0%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	22	171	29	4	29	10	3	73	28
LT Vol	22	0	26	0	26	0	3	0	0
Through Vol	0	108	3	0	3	0	0	73	0
RT Vol	0	63	0	4	0	10	0	0	28
Lane Flow Rate	23	180	31	4	31	11	3	77	29
Geometry Grp	6	6	6	6	6	6	6	6	6
Degree of Util (X)	0.035	0.236	0.05	0.006	0.05	0.014	0.005	0.11	0.037
Departure Headway (Hd)	5.489	4.729	5.886	4.735	5.874	4.722	5.666	5.164	4.462
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	653	760	608	755	610	757	632	694	802
Service Time	3.215	2.455	3.621	2.469	3.608	2.457	3.396	2.894	2.192
HCM Lane V/C Ratio	0.035	0.237	0.051	0.005	0.051	0.015	0.005	0.111	0.036
HCM Control Delay, s/veh	8.4	8.9	8.9	7.5	8.9	7.5	8.4	8.5	7.4
HCM Lane LOS	A	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0.1	0.9	0.2	0	0.2	0	0	0.4	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	472	79	123	609	50	48
Future Volume (veh/h)	472	79	123	609	50	48
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	497	83	129	641	53	51
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	959	1018	172	1320	1571	874
Arrive On Green	0.19	0.19	0.10	0.37	0.45	0.45
Sat Flow, veh/h	5274	1585	1781	3647	3456	1585
Grp Volume(v), veh/h	497	83	129	641	53	51
Grp Sat Flow(s),veh/h/ln	1702	1585	1781	1777	1728	1585
Q Serve(g_s), s	4.5	1.0	3.6	7.2	0.4	0.8
Cycle Q Clear(g_c), s	4.5	1.0	3.6	7.2	0.4	0.8
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	959	1018	172	1320	1571	874
V/C Ratio(X)	0.52	0.08	0.75	0.49	0.03	0.06
Avail Cap(c_a), veh/h	2815	1594	844	3952	1571	874
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.9	3.5	22.7	12.5	7.8	5.4
Incr Delay (d2), s/veh	0.4	0.0	6.4	0.3	0.0	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.7	1.6	2.1	0.1	0.2
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	19.3	3.5	29.2	12.7	7.8	5.5
LnGrp LOS	B	A	C	B	A	A
Approach Vol, veh/h	580			770	104	
Approach Delay, s/veh	17.1			15.5	6.7	
Approach LOS	B			B	A	

Timer - Assigned Phs	2	3	4		8
Phs Duration (G+Y+Rc), s	28.0	9.5	14.2		23.7
Change Period (Y+Rc), s	4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	23.5	24.5	28.5		57.5
Max Q Clear Time (g_c+I1), s	2.8	5.6	6.5		9.2
Green Ext Time (p_c), s	0.3	0.3	3.2		4.3

Intersection Summary	
HCM 7th Control Delay, s/veh	15.5
HCM 7th LOS	B

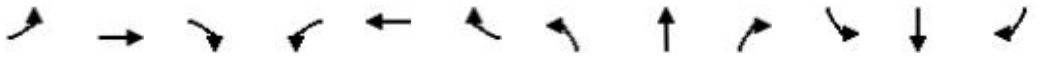
Intersection	
Int Delay, s/veh	0.5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	542	2	0	717	0	61
Future Vol, veh/h	542	2	0	717	0	61
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	571	2	0	755	0	64

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	285
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	607
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	607
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	11.63
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	607	-	-	-
HCM Lane V/C Ratio	0.106	-	-	-
HCM Control Delay (s/veh)	11.6	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.4	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	501	22	20	570	46	33	33	16	56	46	112
Future Volume (veh/h)	59	501	22	20	570	46	33	33	16	56	46	112
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	62	527	23	21	600	48	35	35	17	59	48	118
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	96	988	441	44	883	394	621	875	741	741	224	551
Arrive On Green	0.05	0.28	0.28	0.02	0.25	0.25	0.47	0.47	0.47	0.47	0.47	0.47
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	1220	1870	1585	1352	479	1179
Grp Volume(v), veh/h	62	527	23	21	600	48	35	35	17	59	0	166
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1220	1870	1585	1352	0	1658
Q Serve(g_s), s	2.0	7.4	0.6	0.7	9.0	1.4	1.0	0.6	0.3	1.5	0.0	3.5
Cycle Q Clear(g_c), s	2.0	7.4	0.6	0.7	9.0	1.4	4.5	0.6	0.3	2.1	0.0	3.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.71
Lane Grp Cap(c), veh/h	96	988	441	44	883	394	621	875	741	741	0	776
V/C Ratio(X)	0.64	0.53	0.05	0.48	0.68	0.12	0.06	0.04	0.02	0.08	0.00	0.21
Avail Cap(c_a), veh/h	439	2387	1065	288	2085	930	621	875	741	741	0	776
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	27.2	18.0	15.6	28.3	20.0	17.1	10.6	8.5	8.4	9.0	0.0	9.3
Incr Delay (d2), s/veh	7.0	0.4	0.0	7.8	0.9	0.1	0.2	0.1	0.1	0.2	0.0	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	2.5	0.2	0.3	3.1	0.4	0.2	0.2	0.1	0.3	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.2	18.4	15.6	36.1	20.9	17.3	10.8	8.6	8.5	9.3	0.0	9.9
LnGrp LOS	C	B	B	D	C	B	B	A	A	A		A
Approach Vol, veh/h		612			669			87			225	
Approach Delay, s/veh		19.9			21.1			9.4			9.7	
Approach LOS		B			C			A			A	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		32.0	6.0	20.8		32.0	7.7	19.1				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		27.5	9.5	39.5		27.5	14.5	34.5				
Max Q Clear Time (g_c+I1), s		6.5	2.7	9.4		5.5	4.0	11.0				
Green Ext Time (p_c), s		0.2	0.0	3.2		0.9	0.1	3.6				

Intersection Summary	
HCM 7th Control Delay, s/veh	18.4
HCM 7th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	31	184	20	58	236	31	44	68	157	17	46	29
Future Volume (veh/h)	31	184	20	58	236	31	44	68	157	17	46	29
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	33	194	21	61	248	33	46	72	165	18	48	31
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	64	304	258	97	339	287	81	835	707	39	791	670
Arrive On Green	0.04	0.16	0.16	0.05	0.18	0.18	0.05	0.45	0.45	0.02	0.42	0.42
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	33	194	21	61	248	33	46	72	165	18	48	31
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Q Serve(g_s), s	1.0	5.5	0.6	1.9	7.2	1.0	1.4	1.3	3.7	0.6	0.9	0.7
Cycle Q Clear(g_c), s	1.0	5.5	0.6	1.9	7.2	1.0	1.4	1.3	3.7	0.6	0.9	0.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	64	304	258	97	339	287	81	835	707	39	791	670
V/C Ratio(X)	0.52	0.64	0.08	0.63	0.73	0.11	0.57	0.09	0.23	0.46	0.06	0.05
Avail Cap(c_a), veh/h	265	900	763	359	998	846	296	835	707	234	791	670
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.1	22.3	20.3	26.5	22.1	19.6	26.7	9.1	9.8	27.6	9.8	9.7
Incr Delay (d2), s/veh	6.4	2.2	0.1	6.6	3.0	0.2	6.2	0.2	0.8	8.4	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.2	0.2	0.9	2.8	0.3	0.7	0.4	1.0	0.3	0.3	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.5	24.6	20.4	33.1	25.1	19.7	32.9	9.3	10.5	36.0	9.9	9.8
LnGrp LOS	C	C	C	C	C	B	C	A	B	D	A	A
Approach Vol, veh/h		248			342			283			97	
Approach Delay, s/veh		25.4			26.0			13.9			14.7	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	5.7	30.0	7.6	13.8	7.1	28.7	6.5	14.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	7.5	25.5	11.5	27.5	9.5	23.5	8.5	30.5
Max Q Clear Time (g_c+I1), s	2.6	5.7	3.9	7.5	3.4	2.9	3.0	9.2
Green Ext Time (p_c), s	0.0	0.8	0.1	0.9	0.0	0.2	0.0	1.2

Intersection Summary	
HCM 7th Control Delay, s/veh	21.2
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	107	235	0	0	179	17	0	0	0	21	0	102
Future Vol, veh/h	107	235	0	0	179	17	0	0	0	21	0	102
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	220	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	113	247	0	0	188	18	0	0	0	22	0	107

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	206	0	-	-	-	0	661	679	247	670	-	197
Stage 1	-	-	-	-	-	-	473	473	-	197	-	-
Stage 2	-	-	-	-	-	-	188	206	-	473	-	-
Critical Hdwy	4.12	-	-	-	-	-	7.12	6.52	6.22	7.12	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Follow-up Hdwy	2.218	-	-	-	-	-	3.518	4.018	3.318	3.518	-	3.318
Pot Cap-1 Maneuver	1365	-	0	0	-	-	376	374	791	371	0	844
Stage 1	-	-	0	0	-	-	572	559	-	804	0	-
Stage 2	-	-	0	0	-	-	813	731	-	572	0	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1365	-	-	-	-	-	297	338	791	335	-	844
Mov Cap-2 Maneuver	-	-	-	-	-	-	297	338	-	335	-	-
Stage 1	-	-	-	-	-	-	517	505	-	804	-	-
Stage 2	-	-	-	-	-	-	710	731	-	517	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	2.46	0	0	11.02
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	-	563	-	-	-	335	844
HCM Lane V/C Ratio	-	0.083	-	-	-	0.066	0.127
HCM Control Delay (s/veh)	0	7.9	0	-	-	16.5	9.9
HCM Lane LOS	A	A	A	-	-	C	A
HCM 95th %tile Q(veh)	-	0.3	-	-	-	0.2	0.4

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	571	31	0	673	0	7
Future Vol, veh/h	571	31	0	673	0	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	601	33	0	708	0	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	301
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	593
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	593
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	11.14
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	593	-	-	-
HCM Lane V/C Ratio	0.012	-	-	-
HCM Control Delay (s/veh)	11.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

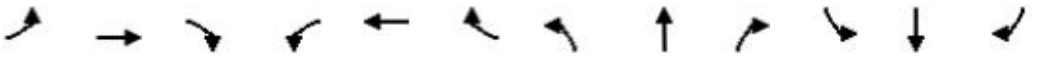
Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	28	1	1	0	1	1	2	72	0	19	142	42
Future Vol, veh/h	28	1	1	0	1	1	2	72	0	19	142	42
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	Free
Storage Length	-	-	-	-	-	-	-	-	-	0	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	29	1	1	0	1	1	2	76	0	20	149	44

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	232	269	149	270	269	38	149	0	0	76	0	0
Stage 1	189	189	-	80	80	-	-	-	-	-	-	-
Stage 2	43	80	-	190	189	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.23	7.33	6.53	6.93	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	713	636	896	672	636	1026	1431	-	-	1522	-	0
Stage 1	812	743	-	920	828	-	-	-	-	-	-	0
Stage 2	967	828	-	811	743	-	-	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	701	627	896	660	627	1026	1431	-	-	1522	-	-
Mov Cap-2 Maneuver	701	627	-	660	627	-	-	-	-	-	-	-
Stage 1	801	733	-	919	827	-	-	-	-	-	-	-
Stage 2	963	827	-	798	733	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.36	9.64	0.21	0.87
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT
Capacity (veh/h)	97	-	-	703	778	1522	-
HCM Lane V/C Ratio	0.001	-	-	0.045	0.003	0.013	-
HCM Control Delay (s/veh)	7.5	0	-	10.4	9.6	7.4	-
HCM Lane LOS	A	A	-	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.1	0	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	32	751	112	64	799	37	111	41	46	21	24	12
Future Volume (veh/h)	32	751	112	64	799	37	111	41	46	21	24	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	34	791	118	67	841	39	117	43	48	22	25	13
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	62	1076	480	95	1141	509	229	652	553	45	575	487
Arrive On Green	0.04	0.30	0.30	0.05	0.32	0.32	0.07	0.35	0.35	0.03	0.31	0.31
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	3456	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	34	791	118	67	841	39	117	43	48	22	25	13
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1728	1870	1585	1781	1870	1585
Q Serve(g_s), s	1.3	13.3	3.7	2.5	14.0	1.1	2.2	1.0	1.4	0.8	0.6	0.4
Cycle Q Clear(g_c), s	1.3	13.3	3.7	2.5	14.0	1.1	2.2	1.0	1.4	0.8	0.6	0.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	62	1076	480	95	1141	509	229	652	553	45	575	487
V/C Ratio(X)	0.54	0.74	0.25	0.71	0.74	0.08	0.51	0.07	0.09	0.49	0.04	0.03
Avail Cap(c_a), veh/h	200	1732	773	281	1892	844	441	652	553	174	575	487
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.6	20.8	17.5	31.0	20.1	15.8	30.1	14.5	14.6	32.1	16.2	16.1
Incr Delay (d2), s/veh	7.2	1.0	0.3	9.2	0.9	0.1	1.7	0.2	0.3	8.1	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	4.8	1.2	1.2	5.0	0.4	0.9	0.4	0.5	0.4	0.3	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	38.8	21.8	17.8	40.2	21.1	15.8	31.8	14.7	14.9	40.2	16.3	16.2
LnGrp LOS	D	C	B	D	C	B	C	B	B	D	B	B
Approach Vol, veh/h		943			947			208			60	
Approach Delay, s/veh		21.9			22.2			24.4			25.1	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.2	27.8	8.1	24.7	8.9	25.0	6.8	25.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	6.5	22.5	10.5	32.5	8.5	20.5	7.5	35.5
Max Q Clear Time (g_c+I1), s	2.8	3.4	4.5	15.3	4.2	2.6	3.3	16.0
Green Ext Time (p_c), s	0.0	0.3	0.0	4.9	0.1	0.1	0.0	5.2

Intersection Summary	
HCM 7th Control Delay, s/veh	22.4
HCM 7th LOS	C

Intersection	
Intersection Delay, s/veh	10.6
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	43	4	24	120	2	11	12	126	89	5	154	26
Future Vol, veh/h	43	4	24	120	2	11	12	126	89	5	154	26
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	45	4	25	126	2	12	13	133	94	5	162	27
Number of Lanes	0	1	1	0	1	1	1	1	0	1	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	3	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	3	2	2
HCM Control Delay, s/veh	9.6	11	11	10.3
HCM LOS	A	B	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	91%	0%	98%	0%	100%	0%	0%
Vol Thru, %	0%	59%	9%	0%	2%	0%	0%	100%	0%
Vol Right, %	0%	41%	0%	100%	0%	100%	0%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	12	215	47	24	122	11	5	154	26
LT Vol	12	0	43	0	120	0	5	0	0
Through Vol	0	126	4	0	2	0	0	154	0
RT Vol	0	89	0	24	0	11	0	0	26
Lane Flow Rate	13	226	49	25	128	12	5	162	27
Geometry Grp	6	6	6	6	6	6	6	6	6
Degree of Util (X)	0.022	0.344	0.092	0.039	0.233	0.017	0.009	0.264	0.039
Departure Headway (Hd)	6.272	5.476	6.684	5.518	6.53	5.332	6.36	5.856	5.151
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	572	659	537	649	551	672	564	614	696
Service Time	3.997	3.201	4.415	3.248	4.257	3.059	4.086	3.582	2.876
HCM Lane V/C Ratio	0.023	0.343	0.091	0.039	0.232	0.018	0.009	0.264	0.039
HCM Control Delay, s/veh	9.1	11.1	10.1	8.5	11.2	8.2	9.1	10.7	8.1
HCM Lane LOS	A	B	B	A	B	A	A	B	A
HCM 95th-tile Q	0.1	1.5	0.3	0.1	0.9	0.1	0	1.1	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	685	79	187	758	131	178
Future Volume (veh/h)	685	79	187	758	131	178
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	721	83	197	798	138	187
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1177	1007	253	1587	1399	866
Arrive On Green	0.23	0.23	0.14	0.45	0.40	0.40
Sat Flow, veh/h	5274	1585	1781	3647	3456	1585
Grp Volume(v), veh/h	721	83	197	798	138	187
Grp Sat Flow(s),veh/h/ln	1702	1585	1781	1777	1728	1585
Q Serve(g_s), s	7.7	1.2	6.5	9.7	1.5	3.7
Cycle Q Clear(g_c), s	7.7	1.2	6.5	9.7	1.5	3.7
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1177	1007	253	1587	1399	866
V/C Ratio(X)	0.61	0.08	0.78	0.50	0.10	0.22
Avail Cap(c_a), veh/h	2235	1335	750	3317	1399	866
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	20.9	4.3	25.1	12.0	11.2	7.1
Incr Delay (d2), s/veh	0.5	0.0	5.2	0.2	0.1	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.8	2.7	2.9	0.5	0.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	21.4	4.3	30.3	12.2	11.3	7.6
LnGrp LOS	C	A	C	B	B	A
Approach Vol, veh/h	804			995	325	
Approach Delay, s/veh	19.6			15.8	9.2	
Approach LOS	B			B	A	

Timer - Assigned Phs	2	3	4		8
Phs Duration (G+Y+Rc), s	29.0	13.1	18.4		31.5
Change Period (Y+Rc), s	4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	24.5	25.5	26.5		56.5
Max Q Clear Time (g_c+I1), s	5.7	8.5	9.7		11.7
Green Ext Time (p_c), s	1.0	0.4	4.3		5.6

Intersection Summary	
HCM 7th Control Delay, s/veh	16.2
HCM 7th LOS	B

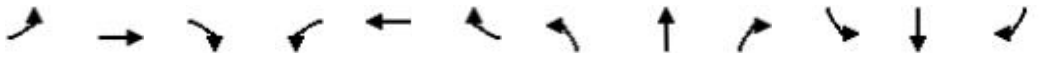
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	873	5	0	942	0	52
Future Vol, veh/h	873	5	0	942	0	52
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	919	5	0	992	0	55

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	459
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	469
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	469
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	13.68
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	469	-	-	-
HCM Lane V/C Ratio	0.117	-	-	-
HCM Control Delay (s/veh)	13.7	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.4	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	137	719	23	16	827	75	24	29	18	66	22	83
Future Volume (veh/h)	137	719	23	16	827	75	24	29	18	66	22	83
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	144	757	24	17	871	79	25	31	19	69	23	87
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	187	1485	662	36	1185	528	503	657	557	573	120	455
Arrive On Green	0.10	0.42	0.42	0.02	0.33	0.33	0.35	0.35	0.35	0.35	0.35	0.35
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	1283	1870	1585	1355	342	1295
Grp Volume(v), veh/h	144	757	24	17	871	79	25	31	19	69	0	110
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1283	1870	1585	1355	0	1637
Q Serve(g_s), s	5.0	10.1	0.6	0.6	13.9	2.2	0.9	0.7	0.5	2.3	0.0	3.0
Cycle Q Clear(g_c), s	5.0	10.1	0.6	0.6	13.9	2.2	3.9	0.7	0.5	3.0	0.0	3.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.79
Lane Grp Cap(c), veh/h	187	1485	662	36	1185	528	503	657	557	573	0	575
V/C Ratio(X)	0.77	0.51	0.04	0.47	0.74	0.15	0.05	0.05	0.03	0.12	0.00	0.19
Avail Cap(c_a), veh/h	486	2634	1175	181	2024	903	503	657	557	573	0	575
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	27.9	13.8	11.0	31.0	18.9	15.0	15.8	13.7	13.7	14.7	0.0	14.5
Incr Delay (d2), s/veh	6.6	0.3	0.0	9.1	0.9	0.1	0.2	0.1	0.1	0.4	0.0	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	3.1	0.2	0.3	4.7	0.7	0.2	0.3	0.2	0.6	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.6	14.1	11.0	40.1	19.8	15.1	16.0	13.9	13.8	15.1	0.0	15.2
LnGrp LOS	C	B	B	D	B	B	B	B	B	B		B
Approach Vol, veh/h		925			967			75			179	
Approach Delay, s/veh		17.2			19.7			14.5			15.2	
Approach LOS		B			B			B			B	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		27.0	5.8	31.3		27.0	11.2	25.9				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		22.5	6.5	47.5		22.5	17.5	36.5				
Max Q Clear Time (g_c+I1), s		5.9	2.6	12.1		5.0	7.0	15.9				
Green Ext Time (p_c), s		0.2	0.0	5.0		0.6	0.2	5.5				

Intersection Summary	
HCM 7th Control Delay, s/veh	18.1
HCM 7th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	206	53	87	248	53	48	105	98	67	137	85
Future Volume (veh/h)	56	206	53	87	248	53	48	105	98	67	137	85
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	59	217	56	92	261	56	51	111	103	71	144	89
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	92	319	270	120	347	294	85	765	648	102	784	664
Arrive On Green	0.05	0.17	0.17	0.07	0.19	0.19	0.05	0.41	0.41	0.06	0.42	0.42
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	59	217	56	92	261	56	51	111	103	71	144	89
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Q Serve(g_s), s	2.0	6.6	1.8	3.1	8.0	1.8	1.7	2.3	2.5	2.4	2.9	2.1
Cycle Q Clear(g_c), s	2.0	6.6	1.8	3.1	8.0	1.8	1.7	2.3	2.5	2.4	2.9	2.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	92	319	270	120	347	294	85	765	648	102	784	664
V/C Ratio(X)	0.64	0.68	0.21	0.77	0.75	0.19	0.60	0.15	0.16	0.69	0.18	0.13
Avail Cap(c_a), veh/h	278	722	612	395	845	716	278	765	648	337	784	664
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.3	23.7	21.7	27.9	23.4	20.9	28.4	11.3	11.4	28.2	11.1	10.9
Incr Delay (d2), s/veh	7.1	2.6	0.4	9.8	3.3	0.3	6.7	0.4	0.5	8.1	0.5	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	2.7	0.6	1.5	3.3	0.6	0.8	0.8	0.7	1.2	1.1	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	35.4	26.3	22.1	37.7	26.7	21.2	35.2	11.7	11.9	36.3	11.6	11.3
LnGrp LOS	D	C	C	D	C	C	D	B	B	D	B	B
Approach Vol, veh/h		332			409			265			304	
Approach Delay, s/veh		27.2			28.4			16.3			17.3	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	29.4	8.6	14.9	7.4	30.0	7.7	15.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	11.5	23.5	13.5	23.5	9.5	25.5	9.5	27.5
Max Q Clear Time (g_c+I1), s	4.4	4.5	5.1	8.6	3.7	4.9	4.0	10.0
Green Ext Time (p_c), s	0.1	0.7	0.1	1.0	0.0	0.9	0.0	1.3

Intersection Summary	
HCM 7th Control Delay, s/veh	23.1
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	29	266	0	0	271	14	0	0	0	27	0	43
Future Vol, veh/h	29	266	0	0	271	14	0	0	0	27	0	43
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	220	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	31	280	0	0	285	15	0	0	0	28	0	45

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	300	0	-	-	-	0	626	641	280	634	-	293
Stage 1	-	-	-	-	-	-	341	341	-	293	-	-
Stage 2	-	-	-	-	-	-	285	300	-	341	-	-
Critical Hdwy	4.12	-	-	-	-	-	7.12	6.52	6.22	7.12	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Follow-up Hdwy	2.218	-	-	-	-	-	3.518	4.018	3.318	3.518	-	3.318
Pot Cap-1 Maneuver	1261	-	0	0	-	-	396	393	759	392	0	747
Stage 1	-	-	0	0	-	-	674	639	-	715	0	-
Stage 2	-	-	0	0	-	-	722	666	-	674	0	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1261	-	-	-	-	-	362	382	759	381	-	747
Mov Cap-2 Maneuver	-	-	-	-	-	-	362	382	-	381	-	-
Stage 1	-	-	-	-	-	-	655	620	-	715	-	-
Stage 2	-	-	-	-	-	-	678	666	-	655	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.78	0	0	12.09
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	-	177	-	-	-	381	747
HCM Lane V/C Ratio	-	0.024	-	-	-	0.075	0.061
HCM Control Delay (s/veh)	0	7.9	0	-	-	15.2	10.1
HCM Lane LOS	A	A	A	-	-	C	B
HCM 95th %tile Q(veh)	-	0.1	-	-	-	0.2	0.2

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	757	53	0	901	0	41
Future Vol, veh/h	757	53	0	901	0	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	797	56	0	948	0	43

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	398
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	514
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	514
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	12.65
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	514	-	-	-
HCM Lane V/C Ratio	0.084	-	-	-
HCM Control Delay (s/veh)	12.7	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.3	-	-	-

Intersection	
Int Delay, s/veh	5.5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	123	5	8	4	3	51	3	152	1	70	159	55
Future Vol, veh/h	123	5	8	4	3	51	3	152	1	70	159	55
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	Free
Storage Length	-	-	-	-	-	-	-	-	-	0	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	129	5	8	4	3	54	3	160	1	74	167	58

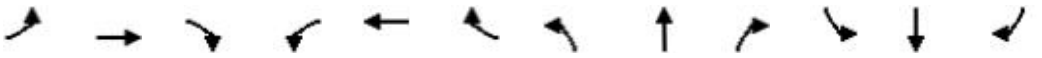
Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	403	482	167	484	482	81	167	0	0	161	0	0
Stage 1	315	315	-	167	167	-	-	-	-	-	-	-
Stage 2	88	167	-	317	315	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.23	7.33	6.53	6.93	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	545	483	876	479	483	964	1409	-	-	1417	-	0
Stage 1	695	655	-	819	760	-	-	-	-	-	-	0
Stage 2	910	759	-	693	655	-	-	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	484	457	876	444	457	964	1409	-	-	1417	-	-
Mov Cap-2 Maneuver	484	457	-	444	457	-	-	-	-	-	-	-
Stage 1	659	621	-	817	758	-	-	-	-	-	-	-
Stage 2	854	758	-	645	621	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	15.19	9.58	0.16	2.35
HCM LOS	C	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT
Capacity (veh/h)	69	-	-	496	847	1417	-
HCM Lane V/C Ratio	0.002	-	-	0.289	0.072	0.052	-
HCM Control Delay (s/veh)	7.6	0	-	15.2	9.6	7.7	-
HCM Lane LOS	A	A	-	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	1.2	0.2	0.2	-

HCM 7th Signalized Intersection Summary
1: Twentynine Palms Hwy (SR-62) & Avalon Ave

09/16/2025



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	6	556	38	38	619	15	55	27	45	21	37	15
Future Volume (veh/h)	6	556	38	38	619	15	55	27	45	21	37	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	6	585	40	40	652	16	58	28	47	22	39	16
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	14	848	378	72	963	429	176	758	642	45	710	602
Arrive On Green	0.01	0.24	0.24	0.04	0.27	0.27	0.05	0.41	0.41	0.03	0.38	0.38
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	3456	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	6	585	40	40	652	16	58	28	47	22	39	16
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1728	1870	1585	1781	1870	1585
Q Serve(g_s), s	0.2	9.3	1.2	1.4	10.1	0.5	1.0	0.6	1.1	0.8	0.8	0.4
Cycle Q Clear(g_c), s	0.2	9.3	1.2	1.4	10.1	0.5	1.0	0.6	1.1	0.8	0.8	0.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	14	848	378	72	963	429	176	758	642	45	710	602
V/C Ratio(X)	0.43	0.69	0.11	0.56	0.68	0.04	0.33	0.04	0.07	0.49	0.05	0.03
Avail Cap(c_a), veh/h	187	1808	806	273	1980	883	419	758	642	245	710	602
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.6	21.5	18.4	29.2	20.2	16.6	28.4	11.1	11.3	29.8	12.2	12.0
Incr Delay (d2), s/veh	19.0	1.0	0.1	6.7	0.8	0.0	1.1	0.1	0.2	7.8	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	3.4	0.4	0.7	3.6	0.1	0.4	0.2	0.4	0.4	0.3	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	49.6	22.5	18.5	35.8	21.0	16.7	29.4	11.2	11.5	37.6	12.3	12.1
LnGrp LOS	D	C	B	D	C	B	C	B	B	D	B	B
Approach Vol, veh/h		631			708			133			77	
Approach Delay, s/veh		22.5			21.7			19.3			19.5	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.1	29.6	7.0	19.3	7.7	28.0	5.0	21.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.5	22.5	9.5	31.5	7.5	23.5	6.5	34.5
Max Q Clear Time (g_c+I1), s	2.8	3.1	3.4	11.3	3.0	2.8	2.2	12.1
Green Ext Time (p_c), s	0.0	0.2	0.0	3.5	0.0	0.1	0.0	4.0

Intersection Summary	
HCM 7th Control Delay, s/veh	21.7
HCM 7th LOS	C

Intersection	
Intersection Delay, s/veh	8.7
Intersection LOS	A

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	26	3	4	26	3	10	22	113	63	3	78	28
Future Vol, veh/h	26	3	4	26	3	10	22	113	63	3	78	28
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	27	3	4	27	3	11	23	119	66	3	82	29
Number of Lanes	0	1	1	0	1	1	1	1	0	1	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	3	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	3	2	2
HCM Control Delay, s/veh	8.8	8.6	8.9	8.3
HCM LOS	A	A	A	A

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	90%	0%	90%	0%	100%	0%	0%
Vol Thru, %	0%	64%	10%	0%	10%	0%	0%	100%	0%
Vol Right, %	0%	36%	0%	100%	0%	100%	0%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	22	176	29	4	29	10	3	78	28
LT Vol	22	0	26	0	26	0	3	0	0
Through Vol	0	113	3	0	3	0	0	78	0
RT Vol	0	63	0	4	0	10	0	0	28
Lane Flow Rate	23	185	31	4	31	11	3	82	29
Geometry Grp	6	6	6	6	6	6	6	6	6
Degree of Util (X)	0.035	0.244	0.05	0.006	0.05	0.014	0.005	0.118	0.037
Departure Headway (Hd)	5.503	4.751	5.916	4.765	5.904	4.753	5.682	5.18	4.478
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	652	758	605	750	607	752	631	693	800
Service Time	3.226	2.474	3.651	2.5	3.639	2.488	3.408	2.906	2.204
HCM Lane V/C Ratio	0.035	0.244	0.051	0.005	0.051	0.015	0.005	0.118	0.036
HCM Control Delay, s/veh	8.4	9	9	7.5	9	7.6	8.4	8.6	7.4
HCM Lane LOS	A	A	A	A	A	A	A	A	A
HCM 95th-tile Q	0.1	1	0.2	0	0.2	0	0	0.4	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	448	79	134	602	57	76
Future Volume (veh/h)	448	79	134	602	57	76
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	472	83	141	634	60	80
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	921	1005	188	1324	1567	886
Arrive On Green	0.18	0.18	0.11	0.37	0.45	0.45
Sat Flow, veh/h	5274	1585	1781	3647	3456	1585
Grp Volume(v), veh/h	472	83	141	634	60	80
Grp Sat Flow(s),veh/h/ln	1702	1585	1781	1777	1728	1585
Q Serve(g_s), s	4.3	1.0	4.0	7.1	0.5	1.2
Cycle Q Clear(g_c), s	4.3	1.0	4.0	7.1	0.5	1.2
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	921	1005	188	1324	1567	886
V/C Ratio(X)	0.51	0.08	0.75	0.48	0.04	0.09
Avail Cap(c_a), veh/h	2809	1591	842	3944	1567	886
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.2	3.7	22.5	12.4	7.9	5.3
Incr Delay (d2), s/veh	0.4	0.0	5.9	0.3	0.0	0.2
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.7	1.7	2.1	0.2	0.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	19.6	3.7	28.4	12.7	7.9	5.5
LnGrp LOS	B	A	C	B	A	A
Approach Vol, veh/h	555			775	140	
Approach Delay, s/veh	17.2			15.5	6.5	
Approach LOS	B			B	A	

Timer - Assigned Phs	2	3	4		8
Phs Duration (G+Y+Rc), s	28.0	10.0	13.8		23.8
Change Period (Y+Rc), s	4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	23.5	24.5	28.5		57.5
Max Q Clear Time (g_c+I1), s	3.2	6.0	6.3		9.1
Green Ext Time (p_c), s	0.4	0.3	3.0		4.2

Intersection Summary	
HCM 7th Control Delay, s/veh	15.3
HCM 7th LOS	B

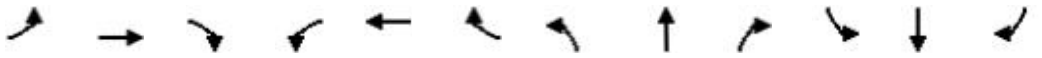
Intersection	
Int Delay, s/veh	0.5

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	546	2	0	721	0	61
Future Vol, veh/h	546	2	0	721	0	61
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	575	2	0	759	0	64

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	287
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	605
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	605
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	11.66
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	605	-	-	-
HCM Lane V/C Ratio	0.106	-	-	-
HCM Control Delay (s/veh)	11.7	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.4	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	505	22	20	574	46	33	33	16	56	46	112
Future Volume (veh/h)	59	505	22	20	574	46	33	33	16	56	46	112
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	62	532	23	21	604	48	35	35	17	59	48	118
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	96	992	443	44	888	396	619	873	740	740	224	550
Arrive On Green	0.05	0.28	0.28	0.02	0.25	0.25	0.47	0.47	0.47	0.47	0.47	0.47
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	1220	1870	1585	1352	479	1179
Grp Volume(v), veh/h	62	532	23	21	604	48	35	35	17	59	0	166
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1220	1870	1585	1352	0	1658
Q Serve(g_s), s	2.0	7.5	0.6	0.7	9.0	1.4	1.0	0.6	0.3	1.5	0.0	3.5
Cycle Q Clear(g_c), s	2.0	7.5	0.6	0.7	9.0	1.4	4.5	0.6	0.3	2.1	0.0	3.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.71
Lane Grp Cap(c), veh/h	96	992	443	44	888	396	619	873	740	740	0	774
V/C Ratio(X)	0.64	0.54	0.05	0.48	0.68	0.12	0.06	0.04	0.02	0.08	0.00	0.21
Avail Cap(c_a), veh/h	439	2383	1063	287	2082	928	619	873	740	740	0	774
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	27.3	18.0	15.5	28.3	20.0	17.1	10.6	8.5	8.5	9.1	0.0	9.3
Incr Delay (d2), s/veh	7.0	0.5	0.0	7.8	0.9	0.1	0.2	0.1	0.1	0.2	0.0	0.6
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	2.5	0.2	0.3	3.1	0.4	0.2	0.2	0.1	0.3	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.3	18.4	15.6	36.2	20.9	17.2	10.8	8.6	8.5	9.3	0.0	9.9
LnGrp LOS	C	B	B	D	C	B	B	A	A	A		A
Approach Vol, veh/h		617			673			87			225	
Approach Delay, s/veh		19.9			21.1			9.5			9.8	
Approach LOS		B			C			A			A	

Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		32.0	6.0	20.9		32.0	7.7	19.2				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		27.5	9.5	39.5		27.5	14.5	34.5				
Max Q Clear Time (g_c+I1), s		6.5	2.7	9.5		5.5	4.0	11.0				
Green Ext Time (p_c), s		0.2	0.0	3.2		0.9	0.1	3.7				

Intersection Summary	
HCM 7th Control Delay, s/veh	18.4
HCM 7th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	31	184	20	58	236	31	44	72	157	17	50	29
Future Volume (veh/h)	31	184	20	58	236	31	44	72	157	17	50	29
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	33	194	21	61	248	33	46	76	165	18	53	31
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	64	304	258	97	339	287	81	835	707	39	791	670
Arrive On Green	0.04	0.16	0.16	0.05	0.18	0.18	0.05	0.45	0.45	0.02	0.42	0.42
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	33	194	21	61	248	33	46	76	165	18	53	31
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Q Serve(g_s), s	1.0	5.5	0.6	1.9	7.2	1.0	1.4	1.3	3.7	0.6	1.0	0.7
Cycle Q Clear(g_c), s	1.0	5.5	0.6	1.9	7.2	1.0	1.4	1.3	3.7	0.6	1.0	0.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	64	304	258	97	339	287	81	835	707	39	791	670
V/C Ratio(X)	0.52	0.64	0.08	0.63	0.73	0.11	0.57	0.09	0.23	0.46	0.07	0.05
Avail Cap(c_a), veh/h	265	900	763	359	998	846	296	835	707	234	791	670
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.1	22.3	20.3	26.5	22.1	19.6	26.7	9.1	9.8	27.6	9.8	9.7
Incr Delay (d2), s/veh	6.4	2.2	0.1	6.6	3.0	0.2	6.2	0.2	0.8	8.4	0.2	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.2	0.2	0.9	2.8	0.3	0.7	0.4	1.0	0.3	0.4	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	33.5	24.6	20.4	33.1	25.1	19.7	32.9	9.3	10.5	36.0	10.0	9.8
LnGrp LOS	C	C	C	C	C	B	C	A	B	D	A	A
Approach Vol, veh/h		248			342			287			102	
Approach Delay, s/veh		25.4			26.0			13.8			14.5	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	5.7	30.0	7.6	13.8	7.1	28.7	6.5	14.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	7.5	25.5	11.5	27.5	9.5	23.5	8.5	30.5
Max Q Clear Time (g_c+I1), s	2.6	5.7	3.9	7.5	3.4	3.0	3.0	9.2
Green Ext Time (p_c), s	0.0	0.8	0.1	0.9	0.0	0.3	0.0	1.2

Intersection Summary	
HCM 7th Control Delay, s/veh	21.1
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	107	235	0	0	179	17	0	0	0	21	0	102
Future Vol, veh/h	107	235	0	0	179	17	0	0	0	21	0	102
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	220	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	113	247	0	0	188	18	0	0	0	22	0	107

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	206	0	-	-	-	0	661	679	247	670	-	197
Stage 1	-	-	-	-	-	-	473	473	-	197	-	-
Stage 2	-	-	-	-	-	-	188	206	-	473	-	-
Critical Hdwy	4.12	-	-	-	-	-	7.12	6.52	6.22	7.12	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Follow-up Hdwy	2.218	-	-	-	-	-	3.518	4.018	3.318	3.518	-	3.318
Pot Cap-1 Maneuver	1365	-	0	0	-	-	376	374	791	371	0	844
Stage 1	-	-	0	0	-	-	572	559	-	804	0	-
Stage 2	-	-	0	0	-	-	813	731	-	572	0	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1365	-	-	-	-	-	297	338	791	335	-	844
Mov Cap-2 Maneuver	-	-	-	-	-	-	297	338	-	335	-	-
Stage 1	-	-	-	-	-	-	517	505	-	804	-	-
Stage 2	-	-	-	-	-	-	710	731	-	517	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	2.46	0	0	11.02
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	-	563	-	-	-	335	844
HCM Lane V/C Ratio	-	0.083	-	-	-	0.066	0.127
HCM Control Delay (s/veh)	0	7.9	0	-	-	16.5	9.9
HCM Lane LOS	A	A	A	-	-	C	A
HCM 95th %tile Q(veh)	-	0.3	-	-	-	0.2	0.4

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	547	69	0	673	0	7
Future Vol, veh/h	547	69	0	673	0	7
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	576	73	0	708	0	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	288
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	604
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	604
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	11.03
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	604	-	-	-
HCM Lane V/C Ratio	0.012	-	-	-
HCM Control Delay (s/veh)	11	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

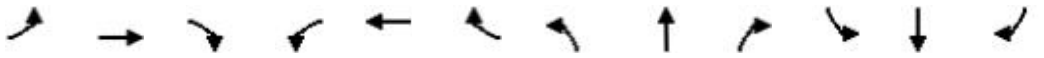
Intersection	
Int Delay, s/veh	2.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	63	1	1	0	1	1	2	72	0	19	142	53
Future Vol, veh/h	63	1	1	0	1	1	2	72	0	19	142	53
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	Free
Storage Length	-	-	-	-	-	-	-	-	-	0	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	66	1	1	0	1	1	2	76	0	20	149	56

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	232	269	149	270	269	38	149	0	0	76	0	0
Stage 1	189	189	-	80	80	-	-	-	-	-	-	-
Stage 2	43	80	-	190	189	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.23	7.33	6.53	6.93	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	713	636	896	672	636	1026	1431	-	-	1522	-	0
Stage 1	812	743	-	920	828	-	-	-	-	-	-	0
Stage 2	967	828	-	811	743	-	-	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	701	627	896	660	627	1026	1431	-	-	1522	-	-
Mov Cap-2 Maneuver	701	627	-	660	627	-	-	-	-	-	-	-
Stage 1	801	733	-	919	827	-	-	-	-	-	-	-
Stage 2	963	827	-	798	733	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	10.68	9.64	0.21	0.87
HCM LOS	B	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT
Capacity (veh/h)	97	-	-	702	778	1522	-
HCM Lane V/C Ratio	0.001	-	-	0.098	0.003	0.013	-
HCM Control Delay (s/veh)	7.5	0	-	10.7	9.6	7.4	-
HCM Lane LOS	A	A	-	B	A	A	-
HCM 95th %tile Q(veh)	0	-	-	0.3	0	0	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	32	773	112	64	799	37	133	42	46	22	24	12
Future Volume (veh/h)	32	773	112	64	799	37	133	42	46	22	24	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	34	814	118	67	841	39	140	44	48	23	25	13
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	62	1096	489	94	1160	518	237	647	549	46	568	481
Arrive On Green	0.03	0.31	0.31	0.05	0.33	0.33	0.07	0.35	0.35	0.03	0.30	0.30
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	3456	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	34	814	118	67	841	39	140	44	48	23	25	13
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1728	1870	1585	1781	1870	1585
Q Serve(g_s), s	1.3	13.9	3.8	2.5	14.1	1.1	2.7	1.1	1.4	0.9	0.6	0.4
Cycle Q Clear(g_c), s	1.3	13.9	3.8	2.5	14.1	1.1	2.7	1.1	1.4	0.9	0.6	0.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	62	1096	489	94	1160	518	237	647	549	46	568	481
V/C Ratio(X)	0.55	0.74	0.24	0.71	0.72	0.08	0.59	0.07	0.09	0.50	0.04	0.03
Avail Cap(c_a), veh/h	198	1710	763	277	1867	833	435	647	549	171	568	481
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.1	21.0	17.5	31.5	20.1	15.7	30.5	14.8	14.9	32.5	16.6	16.5
Incr Delay (d2), s/veh	7.3	1.0	0.3	9.4	0.9	0.1	2.3	0.2	0.3	8.1	0.1	0.1
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	5.0	1.2	1.2	5.0	0.4	1.1	0.4	0.5	0.4	0.3	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	39.4	22.0	17.7	40.9	20.9	15.8	32.9	15.0	15.2	40.5	16.8	16.6
LnGrp LOS	D	C	B	D	C	B	C	B	B	D	B	B
Approach Vol, veh/h		966			947			232			61	
Approach Delay, s/veh		22.1			22.1			25.8			25.7	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.3	27.9	8.1	25.3	9.1	25.0	6.9	26.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	6.5	22.5	10.5	32.5	8.5	20.5	7.5	35.5
Max Q Clear Time (g_c+I1), s	2.9	3.4	4.5	15.9	4.7	2.6	3.3	16.1
Green Ext Time (p_c), s	0.0	0.3	0.0	5.0	0.1	0.1	0.0	5.2

Intersection Summary	
HCM 7th Control Delay, s/veh	22.6
HCM 7th LOS	C

Intersection	
Intersection Delay, s/veh	10.8
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	43	4	24	120	2	11	12	133	89	5	161	26
Future Vol, veh/h	43	4	24	120	2	11	12	133	89	5	161	26
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	45	4	25	126	2	12	13	140	94	5	169	27
Number of Lanes	0	1	1	0	1	1	1	1	0	1	1	1

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	2	2	3	2
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	3	2	2	2
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	2	3	2	2
HCM Control Delay, s/veh	9.6	11	11.2	10.5
HCM LOS	A	B	B	B

Lane	NBLn1	NBLn2	EBLn1	EBLn2	WBLn1	WBLn2	SBLn1	SBLn2	SBLn3
Vol Left, %	100%	0%	91%	0%	98%	0%	100%	0%	0%
Vol Thru, %	0%	60%	9%	0%	2%	0%	0%	100%	0%
Vol Right, %	0%	40%	0%	100%	0%	100%	0%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	12	222	47	24	122	11	5	161	26
LT Vol	12	0	43	0	120	0	5	0	0
Through Vol	0	133	4	0	2	0	0	161	0
RT Vol	0	89	0	24	0	11	0	0	26
Lane Flow Rate	13	234	49	25	128	12	5	169	27
Geometry Grp	6	6	6	6	6	6	6	6	6
Degree of Util (X)	0.022	0.358	0.093	0.039	0.235	0.017	0.009	0.277	0.039
Departure Headway (Hd)	6.296	5.509	6.735	5.569	6.579	5.38	6.387	5.882	5.177
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cap	570	654	532	643	547	665	561	612	692
Service Time	4.022	3.235	4.47	3.303	4.31	3.111	4.114	3.61	2.904
HCM Lane V/C Ratio	0.023	0.358	0.092	0.039	0.234	0.018	0.009	0.276	0.039
HCM Control Delay, s/veh	9.2	11.3	10.2	8.5	11.3	8.2	9.2	10.9	8.1
HCM Lane LOS	A	B	B	A	B	A	A	B	A
HCM 95th-tile Q	0.1	1.6	0.3	0.1	0.9	0.1	0	1.1	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	656	79	201	750	139	213
Future Volume (veh/h)	656	79	201	750	139	213
Initial Q (Qb), veh	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	691	83	212	789	146	224
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2
Cap, veh/h	1137	993	269	1592	1395	880
Arrive On Green	0.22	0.22	0.15	0.45	0.40	0.40
Sat Flow, veh/h	5274	1585	1781	3647	3456	1585
Grp Volume(v), veh/h	691	83	212	789	146	224
Grp Sat Flow(s),veh/h/ln	1702	1585	1781	1777	1728	1585
Q Serve(g_s), s	7.4	1.3	7.0	9.6	1.6	4.4
Cycle Q Clear(g_c), s	7.4	1.3	7.0	9.6	1.6	4.4
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1137	993	269	1592	1395	880
V/C Ratio(X)	0.61	0.08	0.79	0.50	0.10	0.25
Avail Cap(c_a), veh/h	2229	1332	748	3308	1395	880
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	21.2	4.5	24.8	11.9	11.3	7.0
Incr Delay (d2), s/veh	0.5	0.0	5.1	0.2	0.2	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	0.8	2.9	2.9	0.6	1.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d), s/veh	21.7	4.5	29.9	12.1	11.4	7.7
LnGrp LOS	C	A	C	B	B	A
Approach Vol, veh/h	774			1001	370	
Approach Delay, s/veh	19.9			15.9	9.2	
Approach LOS	B			B	A	

Timer - Assigned Phs	2	3	4		8
Phs Duration (G+Y+Rc), s	29.0	13.7	18.0		31.7
Change Period (Y+Rc), s	4.5	4.5	4.5		4.5
Max Green Setting (Gmax), s	24.5	25.5	26.5		56.5
Max Q Clear Time (g_c+I1), s	6.4	9.0	9.4		11.6
Green Ext Time (p_c), s	1.2	0.5	4.1		5.5

Intersection Summary	
HCM 7th Control Delay, s/veh	16.2
HCM 7th LOS	B

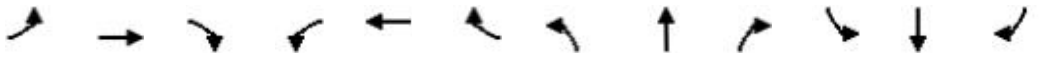
Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	879	5	0	948	0	52
Future Vol, veh/h	879	5	0	948	0	52
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	925	5	0	998	0	55

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	463
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	467
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	467
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	13.73
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	467	-	-	-
HCM Lane V/C Ratio	0.117	-	-	-
HCM Control Delay (s/veh)	13.7	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.4	-	-	-



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	137	725	23	16	833	75	24	29	18	66	22	83
Future Volume (veh/h)	137	725	23	16	833	75	24	29	18	66	22	83
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	144	763	24	17	877	79	25	31	19	69	23	87
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	187	1490	665	36	1191	531	501	655	555	572	120	453
Arrive On Green	0.10	0.42	0.42	0.02	0.34	0.34	0.35	0.35	0.35	0.35	0.35	0.35
Sat Flow, veh/h	1781	3554	1585	1781	3554	1585	1283	1870	1585	1355	342	1295
Grp Volume(v), veh/h	144	763	24	17	877	79	25	31	19	69	0	110
Grp Sat Flow(s),veh/h/ln	1781	1777	1585	1781	1777	1585	1283	1870	1585	1355	0	1637
Q Serve(g_s), s	5.1	10.2	0.6	0.6	14.0	2.2	0.9	0.7	0.5	2.3	0.0	3.0
Cycle Q Clear(g_c), s	5.1	10.2	0.6	0.6	14.0	2.2	3.9	0.7	0.5	3.0	0.0	3.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.79
Lane Grp Cap(c), veh/h	187	1490	665	36	1191	531	501	655	555	572	0	573
V/C Ratio(X)	0.77	0.51	0.04	0.47	0.74	0.15	0.05	0.05	0.03	0.12	0.00	0.19
Avail Cap(c_a), veh/h	485	2627	1172	180	2019	900	501	655	555	572	0	573
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	28.0	13.8	11.0	31.1	18.9	15.0	15.9	13.8	13.7	14.8	0.0	14.5
Incr Delay (d2), s/veh	6.6	0.3	0.0	9.1	0.9	0.1	0.2	0.1	0.1	0.4	0.0	0.7
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	3.1	0.2	0.3	4.7	0.7	0.2	0.3	0.2	0.6	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	34.6	14.1	11.0	40.2	19.8	15.1	16.1	13.9	13.8	15.2	0.0	15.3
LnGrp LOS	C	B	B	D	B	B	B	B	B	B		B
Approach Vol, veh/h		931			973			75			179	
Approach Delay, s/veh		17.2			19.7			14.6			15.3	
Approach LOS		B			B			B			B	

Timer - Assigned Phs	2	3	4		6	7	8					
Phs Duration (G+Y+Rc), s	27.0	5.8	31.5		27.0	11.2	26.0					
Change Period (Y+Rc), s	4.5	4.5	4.5		4.5	4.5	4.5					
Max Green Setting (Gmax), s	22.5	6.5	47.5		22.5	17.5	36.5					
Max Q Clear Time (g_c+I1), s	5.9	2.6	12.2		5.0	7.1	16.0					
Green Ext Time (p_c), s	0.2	0.0	5.1		0.6	0.2	5.5					

Intersection Summary	
HCM 7th Control Delay, s/veh	18.1
HCM 7th LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	57	206	53	87	248	54	48	111	98	68	143	86
Future Volume (veh/h)	57	206	53	87	248	54	48	111	98	68	143	86
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Lane Width Adj.	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870	1870
Adj Flow Rate, veh/h	60	217	56	92	261	57	51	117	103	72	151	91
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	93	319	271	120	347	294	85	764	647	103	783	664
Arrive On Green	0.05	0.17	0.17	0.07	0.19	0.19	0.05	0.41	0.41	0.06	0.42	0.42
Sat Flow, veh/h	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Grp Volume(v), veh/h	60	217	56	92	261	57	51	117	103	72	151	91
Grp Sat Flow(s),veh/h/ln	1781	1870	1585	1781	1870	1585	1781	1870	1585	1781	1870	1585
Q Serve(g_s), s	2.0	6.6	1.8	3.1	8.0	1.8	1.7	2.4	2.5	2.4	3.1	2.2
Cycle Q Clear(g_c), s	2.0	6.6	1.8	3.1	8.0	1.8	1.7	2.4	2.5	2.4	3.1	2.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	93	319	271	120	347	294	85	764	647	103	783	664
V/C Ratio(X)	0.64	0.68	0.21	0.77	0.75	0.19	0.60	0.15	0.16	0.70	0.19	0.14
Avail Cap(c_a), veh/h	278	722	612	395	845	716	278	764	647	336	783	664
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.3	23.7	21.7	27.9	23.5	20.9	28.4	11.4	11.4	28.2	11.2	10.9
Incr Delay (d2), s/veh	7.2	2.5	0.4	9.8	3.3	0.3	6.7	0.4	0.5	8.3	0.5	0.4
Initial Q Delay(d3), s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	2.7	0.6	1.5	3.3	0.6	0.8	0.9	0.8	1.2	1.2	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d), s/veh	35.5	26.2	22.1	37.7	26.7	21.3	35.2	11.8	11.9	36.4	11.7	11.3
LnGrp LOS	D	C	C	D	C	C	D	B	B	D	B	B
Approach Vol, veh/h		333			410			271			314	
Approach Delay, s/veh		27.2			28.4			16.2			17.3	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	29.4	8.6	14.9	7.4	30.0	7.7	15.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	11.5	23.5	13.5	23.5	9.5	25.5	9.5	27.5
Max Q Clear Time (g_c+I1), s	4.4	4.5	5.1	8.6	3.7	5.1	4.0	10.0
Green Ext Time (p_c), s	0.1	0.8	0.1	1.0	0.0	1.0	0.0	1.3

Intersection Summary	
HCM 7th Control Delay, s/veh	23.0
HCM 7th LOS	C

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	29	267	0	0	272	14	0	0	0	27	0	43
Future Vol, veh/h	29	267	0	0	272	14	0	0	0	27	0	43
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	220	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	31	281	0	0	286	15	0	0	0	28	0	45

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	301	0	-	-	-	0	628	643	281	636	-	294
Stage 1	-	-	-	-	-	-	342	342	-	294	-	-
Stage 2	-	-	-	-	-	-	286	301	-	342	-	-
Critical Hdwy	4.12	-	-	-	-	-	7.12	6.52	6.22	7.12	-	6.22
Critical Hdwy Stg 1	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.12	5.52	-	6.12	-	-
Follow-up Hdwy	2.218	-	-	-	-	-	3.518	4.018	3.318	3.518	-	3.318
Pot Cap-1 Maneuver	1260	-	0	0	-	-	395	392	758	391	0	746
Stage 1	-	-	0	0	-	-	673	638	-	715	0	-
Stage 2	-	-	0	0	-	-	721	665	-	673	0	-
Platoon blocked, %		-			-	-						
Mov Cap-1 Maneuver	1260	-	-	-	-	-	361	380	758	379	-	746
Mov Cap-2 Maneuver	-	-	-	-	-	-	361	380	-	379	-	-
Stage 1	-	-	-	-	-	-	654	620	-	715	-	-
Stage 2	-	-	-	-	-	-	677	665	-	654	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	0.78	0	0	12.11
HCM LOS			A	B

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	-	176	-	-	-	379	746
HCM Lane V/C Ratio	-	0.024	-	-	-	0.075	0.061
HCM Control Delay (s/veh)	0	7.9	0	-	-	15.3	10.1
HCM Lane LOS	A	A	A	-	-	C	B
HCM 95th %tile Q(veh)	-	0.1	-	-	-	0.2	0.2

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	728	104	0	901	0	41
Future Vol, veh/h	728	104	0	901	0	41
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	300	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	766	109	0	948	0	43

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	383
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	7.14
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.92
Pot Cap-1 Maneuver	-	-	0	-	0	525
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	525
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s/v	0	0	12.47
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	525	-	-	-
HCM Lane V/C Ratio	0.082	-	-	-
HCM Control Delay (s/veh)	12.5	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0.3	-	-	-

Intersection	
Int Delay, s/veh	6.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	166	5	8	4	3	51	3	152	1	70	159	69
Future Vol, veh/h	166	5	8	4	3	51	3	152	1	70	159	69
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Stop	Stop	Stop	Stop	Stop	Stop	Free	Free	Free	Free	Free	Free
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	Free
Storage Length	-	-	-	-	-	-	-	-	-	0	-	0
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	95	95	95	95	95	95	95	95	95	95	95	95
Heavy Vehicles, %	2	2	2	2	2	2	2	2	2	2	2	2
Mvmt Flow	175	5	8	4	3	54	3	160	1	74	167	73

Major/Minor	Minor2			Minor1			Major1			Major2		
Conflicting Flow All	403	482	167	484	482	81	167	0	0	161	0	0
Stage 1	315	315	-	167	167	-	-	-	-	-	-	-
Stage 2	88	167	-	317	315	-	-	-	-	-	-	-
Critical Hdwy	7.33	6.53	6.23	7.33	6.53	6.93	4.13	-	-	4.13	-	-
Critical Hdwy Stg 1	6.13	5.53	-	6.53	5.53	-	-	-	-	-	-	-
Critical Hdwy Stg 2	6.53	5.53	-	6.13	5.53	-	-	-	-	-	-	-
Follow-up Hdwy	3.519	4.019	3.319	3.519	4.019	3.319	2.219	-	-	2.219	-	-
Pot Cap-1 Maneuver	545	483	876	479	483	964	1409	-	-	1417	-	0
Stage 1	695	655	-	819	760	-	-	-	-	-	-	0
Stage 2	910	759	-	693	655	-	-	-	-	-	-	0
Platoon blocked, %								-	-		-	
Mov Cap-1 Maneuver	484	457	876	444	457	964	1409	-	-	1417	-	-
Mov Cap-2 Maneuver	484	457	-	444	457	-	-	-	-	-	-	-
Stage 1	659	621	-	817	758	-	-	-	-	-	-	-
Stage 2	854	758	-	645	621	-	-	-	-	-	-	-

Approach	EB	WB	NB	SB
HCM Control Delay, s/v	16.76	9.58	0.16	2.35
HCM LOS	C	A		

Minor Lane/Major Mvmt	NBL	NBT	NBR	EBLn1	WBLn1	SBL	SBT
Capacity (veh/h)	69	-	-	493	847	1417	-
HCM Lane V/C Ratio	0.002	-	-	0.382	0.072	0.052	-
HCM Control Delay (s/veh)	7.6	0	-	16.8	9.6	7.7	-
HCM Lane LOS	A	A	-	C	A	A	-
HCM 95th %tile Q(veh)	0	-	-	1.8	0.2	0.2	-

APPENDIX D

QUEUEING ANALYSIS WORKSHEETS

Intersection: 101: Commercial Dwy 1 & Twentynine Palms Hwy (SR-62)

Movement	NB
Directions Served	R
Maximum Queue (ft)	21
Average Queue (ft)	5
95th Queue (ft)	19
Link Distance (ft)	86
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 102: Commercial Dwy 2 & Twentynine Palms Hwy (SR-62)

Movement	EB	WB	NB	SB
Directions Served	LTR	LTR	LT	L
Maximum Queue (ft)	61	28	11	23
Average Queue (ft)	28	2	0	1
95th Queue (ft)	52	13	6	10
Link Distance (ft)	151	145	293	135
Upstream Blk Time (%)				
Queuing Penalty (veh)				
Storage Bay Dist (ft)				
Storage Blk Time (%)				
Queuing Penalty (veh)				

Zone Summary

Zone wide Queuing Penalty: 0

Intersection: 101: Commercial Dwy 1 & Twentynine Palms Hwy (SR-62)

Movement	NB
Directions Served	R
Maximum Queue (ft)	52
Average Queue (ft)	15
95th Queue (ft)	38
Link Distance (ft)	86
Upstream Blk Time (%)	0
Queuing Penalty (veh)	0
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 102: Commercial Dwy 2 & Twentynine Palms Hwy (SR-62)

Movement	EB	WB	NB	NB	SB
Directions Served	LTR	LTR	LT	TR	L
Maximum Queue (ft)	90	53	12	18	48
Average Queue (ft)	50	26	0	0	9
95th Queue (ft)	82	50	6	5	36
Link Distance (ft)	151	145	293	293	135
Upstream Blk Time (%)					
Queuing Penalty (veh)					
Storage Bay Dist (ft)					
Storage Blk Time (%)					
Queuing Penalty (veh)					

Zone Summary

Zone wide Queuing Penalty: 0

Town of Yucca Valley

WALMART FUEL STATION PROJECT

April 2026 | Mitigation Monitoring and Reporting Program

April 2026 | Mitigation Monitoring and Reporting Program
State Clearinghouse No. 2004071127

WALMART FUEL STATION PROJECT

for Town of Yucca Valley

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MITIGATION MONITORING AND REPORTING PROGRAM

This Mitigation Monitoring and Reporting Program (MMRP) has been prepared for the Walmart Fuel Station Project (proposed project) pursuant to the requirements of California Environmental Quality Act Guidelines Section 15097, Mitigation Monitoring or Reporting. The purpose of this MMRP is to ensure the implementation of mitigation measures identified as part of the environmental review for the proposed project. The public agency may choose whether its program will monitor mitigation, report on mitigation, or both. This MMRP includes the following information:

- The full text of the mitigation measures.
- The party responsible for implementing the mitigation measures.
- The timing for implementation of the mitigation measures.
- The agency responsible for monitoring the implementation.

	Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring
AESTHETICS				
4.1.1B	All exterior wall-mounted area lights on project buildings, the fast-food drive-through lane lights, and the fast-food restaurant parking lot lights shall be equipped with "cut-off' optics to mitigate spillover light and direct glare within the project boundary. Specifically, the Illumination Engineering Society (JES) definition for the cut-off fixture classification is as follows: Intensity at 80 degrees from nadir (0-degree-angle pointing directly downward from the lighting fixture) does not exceed 100 candela (cd) per 1,000 lamp lumens, nor at 90 degrees from nadir does the intensity exceed 25 cd per 1,000 lamp lumens.	Project Applicant in coordination with Construction Contractor	Prior to issuance of occupancy permits	Town of Yucca Valley; Town Planner, Building Official, or designee
4.1.1C	Prior to the issuance of grading permits, the applicant shall submit to the Town a photometric study (to include parking areas and access way lights, external security lights, and lighted signage), proving that the project light sources do not spill over to adjacent off-site properties.	Project Applicant	Prior to the issuance of grading permits	Town of Yucca Valley; Town Planner, Building Official, or designee
AIR QUALITY				
4.3.1A	Prior to issuance of grading permits, the construction contractor shall provide evidence showing that the following measures shall be implemented to reduce NOx and PM10 emissions from ground disturbance and VOC emissions from application of architectural coatings: ▪ The construction contractor shall select the construction equipment used on site based on low emission factors and high energy efficiency. The construction contractor shall ensure that construction grading plans include a statement that all construction equipment will be tuned and maintained in accordance with the manufacturer's specifications.	Project Applicant in coordination with Construction Contractor	Prior to issuance of grading permits; and during construction	Town of Yucca Valley; Building Official or designee

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring
▪ The construction contractor shall demonstrate to the Town that construction activities shall make use of alternatively fueled equipment or catalyst-equipped diesel powered equipment to the extent such alternative fuels are available. ▪ The construction contractor shall ensure that construction grading plans include a statement that work crews will shut off equipment when not in use. ▪ The construction contractor shall time the construction activities so as not to interfere with peak hour traffic and to minimize obstruction of through traffic lanes adjacent to the site; if necessary, a flag person shall be retained to maintain safety adjacent to existing roadways. ▪ The construction contractor shall support and encourage ridesharing and transit incentives for the construction crew. ▪ The construction contractor shall demonstrate compliance with the fugitive dust suppression measures 403 a) through 403 e) contained in MDAQMD Rule 403. ▪ The construction contractor shall demonstrate compliance with the VOC suppression measures contained in MDAQMD 1113. ▪ The construction contractor shall apply non-toxic chemical soil stabilizers according to manufacturers' specifications to all inactive construction areas (previously graded areas inactive for 10 days or more). ▪ The construction contractor shall water active sites at least twice daily (Locations where grading is to occur shall be thoroughly watered prior to earthmoving).			

	Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring
	▪ The construction contractor shall provide evidence to the Town that all trucks hauling dirt, sand, soil, or maintain at least two feet of freeboard (vertical space between the top of the load and top of the trailer) in accordance with the requirements of California Vehicle Code (CVC) section 23114. ▪ The construction contractor shall pave construction access roads at least 100 feet onto the site from the main road. ▪ The construction contractor shall promote the reduction of traffic speeds on all unpaved roads to 15 miles per hour (mph) or less.			
BIOLOGICAL RESOURCES				
4.4.1C	In accordance with the MBTA, the removal of vegetation or other potential nesting habitat shall be conducted outside of the avian nesting season (February through August). If construction occurs during the avian nesting season, a pre-construction nesting bird survey shall be conducted seven days prior to any ground disturbing activities. If birds are found to be nesting inside, or within 250 feet (500 feet for raptors) of the impact area, construction will need to be postponed until it is determined by a qualified biologist that the nest is no longer active.	Project Applicant in coordination with Project Biologist and Construction Contractor	Prior to and during construction	Town of Yucca Valley; Town Planner or designee
4.4.2A	Exclude the Mexican Palo Verde tree (*Parkinsonia aculeate*) from the plant palette proposed in the landscaping plan.	Project Applicant	Prior to approval of landscaping plans	Town of Yucca Valley; Town Planner, Building Official, or designee
CULTURAL RESOURCES				
4.5.1A	In the event a historical resource is uncovered, discovered, or otherwise detected or observed during the course of grading or construction of the project, ground-disturbing activities	Project Applicant in coordination with	During grading and construction	Town of Yucca Valley; Community Development Director,

	Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring
	within 50 feet of the find shall cease until the nature and extent of the find can be evaluated by a qualified historian (meeting Secretary of Interior Standards). ff any such resource is uncovered during the course of project-related grading or construction, appropriate mitigation measures, recordation, and removal procedures shall be required prior to any resumption of work in the affected area of the project.	Construction Contractor		Building Official or designee
4.5.2A	Prior to grading activities, an archeological resource monitoring plan shall be submitted for review and approved by the Town. The archeological resource monitoring plan shall require monitoring of the upper ten (10) feet of topsoil. If after 100 percent of soils to five (5) feet below original grade has been monitored and no archaeological resources have been identified, the Project Archaeologist may discontinue monitoring. In the event an archaeological resource is uncovered, discovered, or otherwise detected or observed during the course of grading or construction of the project, ground-disturbing activities within 50 feet of the find shall cease until the nature and extent of the find can be evaluated by a qualified archaeologist (meeting Secretary of Interior Standards). If any such resource uncovered during the course of project related grading or construction, appropriate mitigation measures, recordation, and removal procedures shall be required prior to any resumption of work in the affected area of the project.	Project Applicant in coordination with Project Archeologist and Construction Contractor	Prior to grading; and during construction	Town of Yucca Valley; Community Development Director, Building Official or designee
4.5.2B	Prior to the start of construction, one tribal monitor from the Consulting Tribe (either Yuhaaviatam of San Manuel Nation, Morongo Band of Mission Indians, Agua Caliente Band of Cahuilla Indians, or Twenty-nine Nine Palms Band of Mission Indians) shall be hired by the project applicant to provide	Project Applicant in coordination with Tribal Monitors	Prior to and during ground-disturbing activities	Town of Yucca Valley; Community Development Director,

	Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring
	monitoring during ground disturbing construction activities, and if needed, consult on the discovery and its disposition.			Building Official or designee
GEOLOGY AND SOILS				
4.5.3A	Prior to grading activities, a paleontological resource monitoring plan shall be submitted for review and approved by the Town. The paleontological resource monitoring plan shall require monitoring of the upper ten (10) feet of topsoil. If after 100 percent of soils to five (5) feet below original grade has been monitored and no paleontological resources have been identified, the Project Paleontologist may discontinue monitoring. In the event that a paleontological resource is uncovered, discovered, or otherwise detected or observed during the course of grading or construction of the project, ground-disturbing activities within 50 feet of the find shall cease until the nature and extent of the find can be evaluated by a qualified paleontologist (meeting Secretary of Interior Standards). If any such resource uncovered during the course of project-related grading or construction, appropriate mitigation measures, recordation, and removal procedures shall be required prior to any resumption of work in the affected area of the project.	Project Applicant in coordination with a Qualified Paleontologist and Construction Contractor	Prior to grading activities; and during ground-disturbing activities	Town of Yucca Valley; Community Development Director, Building Official or designee
4.6.1A	The design and construction of the proposed on-site uses shall adhere to the recommendations identified in the geotechnical investigation prepared for the proposed project; and/or other design requirements established by the Town. The geotechnical investigation prepared for this project identifies the potential for some degree of structural damage during seismic shaking, but the risk can be reduced through recommendations contained in the geotechnical investigation. These design and construction measures, from	Project Applicant in coordination with the Construction Contractor	Prior to Town approval of grading and building plans; and during construction	Town of Yucca Valley; Town Engineer or designee

Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring
the geotechnical investigation, shall include but are not limited to the following~~}~~): ▪ The proposed structures may be supported on shallow spread footing foundations bearing on engineered fill, or on drilled shafts. Engineered fill should extend to a minimum depth of 1 feet below the bottom of foundations, or the depth of undocumented fill, or 3 feet below existing grades, whichever is greater. ▪ The excavation should be widened laterally at least 8 inches for each 12 inches of fill placed below footing base elevations. ▪ Grading for the proposed station should incorporate the limits of the overexcavation plus a lateral distance of 1 feet beyond the outside edge of perimeter footings, where possible. Overexcavation and replacement is not required for support of drilled shaft foundations. ▪ It is recommend that the underground storage tanks be over-excavated by about 2 feet in plan area to provide adequate access around the excavation for underground storage tanks construction. The walls of the proposed excavation should be shored or sloped in conformance with OSHA excavation and trench safety standards. If any excavation is extended to a depth of more than 20 feet, it will be necessary to have the side slopes designed by a professional engineer. ▪ Onsite soils consist of cohesionless sandy soils. Therefore, OSHA Soil Type C should be utilized for sloping considerations and on-site soils shall be sloped at a minimum of 1.5H:1V.			

	Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring
	▪ In areas where sidewalks or paving do not immediately adjoin the structure, it is recommend that protective slopes be provided with a minimum grade of approximately 5 percent for at least 10 feet from perimeter walls. ▪ To reduce the potential for damage caused by movement, we recommend: o minimizing moisture increases in the backfill o controlling moisture-density during placement of backfill; o using designs which allow vertical movement between the exterior features and adjoining structural elements; o placing effective control joints on relatively close centers.			
NOISE				
4.11.1A	Construction activities are restricted within the Town to the hours of 7:00 a.m. to 10:00 p.m. Monday through Saturday. The following measures would reduce short-term construction-related noise impacts resulting from the proposed project: ▪ During all project site excavation and grading on-site, the project contractors shall equip all construction equipment, fixed or mobile, with properly operating and maintained mufflers consistent with manufacturers' standards. ▪ The project contractor shall place all stationary construction equipment so that emitted noise is directed away from sensitive receptors nearest the project site.	Project Applicant in coordination with the Construction Contractor	During construction activities	Town of Yucca Valley; Building Official or designee

	Mitigation Measures	Party Responsible for Implementation	Implementation Timing	Agency Responsible for Monitoring
	▪ The construction contractor shall locate equipment staging in areas that will create the greatest distance between construction related noise sources and noise-sensitive receptors nearest the project site during all project construction.			
PUBLIC SERVICES				
4.13.1A	Prior to the issuance of occupancy permits, the project applicant shall make payment of fair share contribution fees (as Occupancy Permits determined by the Fire Chief) to a Town-wide public services assessment process district.	Project Applicant	Prior to the issuance of occupancy permits	Fire Chief or designee
4.13.1B	Prior to the issuance of grading permits, the project applicant shall submit for review and approval by the Fire Chief, a site plan design which includes looped water service which provides adequate fire flow (as determined by the Fire Chief).	Project Applicant	Prior to the issuance of grading permits	Fire Chief or designee
4.13.2A	Prior to the issuance of occupancy permits, the project applicant shall make payment of fair share contribution fees to a City-wide public services assessment district.	Town of Yucca Valley; Building Official or designee	Prior to the issuance of occupancy permits	Town of Yucca Valley; Building Official or designee
TRANSPORTATION AND TRAFFIC				
4.13.3A	Prior to issuance of grading permits, the project applicant shall submit and receive Town approval of detailed grading and landscaping plans to ensure that grading elevation, height of landscaping, vegetation, fencing, monumentation, signage, and other visual obstructions along the project site frontage do not obstruct the minimum sight distance requirement of 942 feet westerly from the proposed signalized driveway on SR-62. This area falls primarily within the proposed detention basin between the proposed signalized driveway and the proposed right in/out only driveway on SR-62.	Project Applicant in coordination with the Construction Contractor	Prior to issuance of grading permits	Town of Yucca Valley; Town Planner, Building Official, or designee

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Print Form

Notice of Determination

Appendix D

To:

☒ Office of Planning and Research

U.S. Mail: P.O. Box 3044, Sacramento, CA 95812-3044

Street Address: 1400 Tenth St., Rm 113, Sacramento, CA 95814

☒ County Clerk
County of: San Bernardino
Address: 385 N Arrowhead Ave # 2
San Bernardino, CA 92415

From:
Public Agency: Town of Yucca Valley
Address: 58928 Business Center Drive
Yucca Valley, California 92284
Contact: Jared Jerome
Phone: (760) 369-6579 ext. 317

Lead Agency (if different from above):
Address:
Contact:
Phone:

SUBJECT: Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.

State Clearinghouse Number (if submitted to State Clearinghouse): 2004071127

Project Title: Walmart Fuel Station Project EIR Addendum

Project Applicant: Town of Yucca Valley

Project Location (include county): 58501 Twentynine Palms Highway (SR62), San Bernardino County

Project Description:

The proposed project is a new fuel station in the existing Walmart Supercenter parking lot that would include six fuel dispensers beneath a canopy, a 1,556-square-foot convenience store (which would include alcohol sales and an air station for vehicle tire inflation), three underground storage tanks, a new drive aisles for internal circulation, new landscaped areas within the parking lot and a new pedestrian walkway that would connect the project site to the existing bus stop.

This is to advise that the Town of Yucca Valley (☒ Lead Agency or ☐ Responsible Agency) has approved the above described project on April 14, 2026 (date) and has made the following determinations regarding the above described project.

1. The project [☐ will ☒ will not] have a significant effect on the environment.
2. ☒ An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
   ☐ A Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
3. Mitigation measures [☒ were ☐ were not] made a condition of the approval of the project.
4. A mitigation reporting or monitoring plan [☒ was ☐ was not] adopted for this project.
5. A statement of Overriding Considerations [☐ was ☒ was not] adopted for this project.
6. Findings [☐ were ☒ were not] made pursuant to the provisions of CEQA.

This is to certify that the final EIR with comments and responses and record of project approval, or the negative Declaration, is available to the General Public at:
Community Development Department, 58928 Business Center Drive, Yucca Valley, CA 92284

Signature (Public Agency): _____ Title: Deputy Town Manager

Date: 4/14/2026 Date Received for filing at OPR: _____

Authority cited: Sections 21083, Public Resources Code.
Reference Section 21000-21174, Public Resources Code.

Revised 2011

Receipt # 371600.

Notice of Determination *Appendix D*

TO:
☒ Office of Planning and Research
For U.S. Mail: P.O. Box Box 3044, Sacramento, CA 95812-3044
Street Address: 1400 Tenth Street, Sacramento, CA 95814

☒ County Clerk
County of: San Bernardino
Address: 385 N. Arrowhead Avenue, San Bernardino, CA 92415-0130

FROM:
Public Agency: Town of Yucca Valley
Address: 58928 Business Center Drive, Yucca Valley, CA 92284
Contact: Shane Stueckle and Nicole Sauviat Criste
Phone: (760) 369-6575
Lead Agency (if different from above):
Address:
Contact:
Phone:

CLERK OF THE BOARD
JUN 30 2008
COUNTY OF SAN BERNARDINO

SUBJECT: ***Filing of Notice of Determination in compliance with Section 21108 or 21152 of the Public Resources Code.***

State Clearinghouse Number (if submitted to State Clearinghouse): 2004071127

Project Title: Yucca Valley Retail Specific Plan

Project Location (include county): Yucca Valley, San Bernardino County

Project Description: The proposed project is a Specific Plan to authorize development of a commercial retail center that includes an approximately 184,146 square foot Wal-Mart Supercenter, a 3,500 square foot retail building, and a 4,000 square foot fast-food restaurant with drive-through on a 28 acre site.

This is to advise that the Town of Yucca Valley (☒ Lead Agency or ☐ Responsible Agency) has approved the above described project on June 25, 2008 (Date) and has made the following determinations regarding the above described project:

1. The project [☒ will ☐ will not] have a significant effect on the environment.
2. ☒ An Environmental Impact Report was prepared for this project pursuant to the provisions of CEQA.
   ☐ A Negative Declaration was prepared for this project pursuant to the provisions of CEQA.
3. Mitigation measures [☒ were ☐ were not] made a condition of the approval of the project.
4. A mitigation reporting or monitoring plan [☒ was ☐ was not] adopted for this project.
5. A statement of Overriding Considerations [☒ was ☐ was not] adopted for this project.
6. Findings [☒ were ☐ were not] made pursuant to the provisions of CEQA.

DATE FILED & POSTED

This is to certify that the final EIR with comments and responses and record of project approval, or the Negative Declaration, is available to the General Public at: The Town of Yucca Valley Community Development Department, Town Hall, San Bernardino County Library Yucca Valley Branch, and the Town of Yucca Valley website.

Signature (Public Agency) _____ Title: Deputy Town Manager

Date: 6-27-08 Date Received for filing at OPR: _____

Authority cited: Section 21083, Public Resources Code.
Reference: Sections 21000-21174, Public Resources Code.

Revised 2005

STATE OF CALIFORNIA - THE RESOURCES AGENCY
DEPARTMENT OF FISH AND GAME
ENVIRONMENTAL FILING FEE CASH RECEIPT

371600

Lead Agency: Town of Yucca Valley Date: 6-30-08

County/State Agency of Filing: San Bernardino, CA. Document No.:

Project Title: Yucca Valley Retail Specific Plan.

Project Applicant Name: Town of Yucca Valley

Project Applicant Address: 58928 Business Center Dr.

City Yucca Valley State CA Zip Code 92284 Phone Number: (760) 369-6575

Project Applicant *(check appropriate box):*

☒ Local Public Agency ☐ School District ☐ Other Special District ☐ State Agency ☐ Private Entity

Check Applicable Fees:

☒	Environmental Impact Report ck# 09930	$2606.75	$ 2606.75
☐	Negative Declaration	$1876.75	$
☐	Application Fee Water Diversion *(State Water Resources Control Board Only)*	$886.25	$
☐	Projects Subject to Certified Regulatory Programs	$886.25	$
☐	County Administrative Fee	$50.00	$ 50.00
☐	Project that is exempt from fees		
	☐ Notice of Exemption		
	☐ DFG No Effect Determination (Form Attached)		

TOTAL RECEIVED $ 2656.75

Signature and title of person receiving payment: Norma Fite Deputy Clerk

WHITE-PROJECT APPLICANT YELLOW-DFG/ASB PINK-LEAD AGENCY GOLDENROD-COUNTY CLERK

DFG 753.5a (Rev. 11/07)

RESOLUTION NO. 26-XX

A RESOLUTION OF THE TOWN COUNCIL OF THE TOWN OF YUCCA VALLEY, CALIFORNIA, APPROVING THE ADDENDUM TO THE PREVIOUSLY ADOPTED YUCCA VALLEY RETAIL SPECIFIC PLAN ENVIRONMENTAL IMPACT REPORT AND APPROVING SPECIFIC PLAN AMENDMENT #2 FOR THE YUCCA VALLEY RETAIL SPECIFIC PLAN

WHEREAS, the Environmental Impact Report ("EIR") for the Project was circulated for public review on July 28, 2010, through August 16, 2010; and

WHEREAS, on June 25, 2008, the Town of Yucca Valley ("Town") Town Council ("Council") adopted the Yucca Valley Retail Specific Plan EIR, and approved the Project; and

WHEREAS, the Notice of Determination for the Project was filed with the San Bernardino County Clerk on June 30, 2008; and

WHEREAS, the project includes Amendment #2 to the Specific Plan, allowing a fueling station as a permitted land use and amending the Sign Program to allow for signage on the fuel station and convenience store, and also the construction and operation of a new fuel station with six fueling pumps (12 dispensers), an overhead canopy, underground fuel storage, a trash enclosure, and a 1,556 square-foot convenience store; and

WHEREAS, Placeworks, prepared an addendum to the EIR ("Addendum"), attached hereto as Exhibit A and incorporated herein, to analyze the changes to that Project and the potential environmental impacts thereof; and

WHEREAS, the Town Council conducted a duly noticed meeting on _____ 2026, to consider the Addendum and information and testimony from Town staff and the public on the Addendum.

NOW, THEREFORE, BE IT RESOLVED AND HEREBY ORDERED BY THE TOWN COUNCIL OF THE TOWN OF YUCCA VALLEY, CALIFORNIA AS FOLLOWS:

SECTION 1. That the above recitals are true and correct and are incorporated herein.

SECTION 2. That the Addendum, together with the original EIR, contains a complete and accurate reporting of the environmental impacts associated with the Project and that the Addendum has been completed in full compliance with CEOA and the State CEQA Guidelines.

SECTION 3. That based on the substantial evidence set forth in the record, including but not limited to the Addendum, the Town Council finds that an addendum to the EIR is the appropriate document for disclosing the minor changes and additions to the Project associated with adding the Project and assessing the potential environmental impacts thereof and that none of the conditions under State CEQA Guidelines section 15162 requiring the need for further supplemental or subsequent environmental review have occurred based upon the following:

(1) Substantial changes are not proposed in the project which will require major revisions of the previous EIR due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects.

Facts: As is fully detailed in the Addendum, changes to the Yucca Valley Retail Specific Plan and regulatory conditions, would fulfill none of the conditions outlined in CEQA Guidelines Sections 15162(a)(l) as these changes would not involve or result in new significant environmental effects or a substantial increase in the severity of previously identified significant effects requiring major revisions to the Adopted EIR.

(2) Substantial changes will not occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR due to the involvement of significant new environmental effects or a substantial increase in the severity of previously identified significant effects.

Facts: There are no substantial changes to the environmental setting for the Project or other circumstances surrounding the Project since the Project EIR for the project was adopted and no new or more severe impacts were identified to result from the Yucca Valley Retail Specific Plan Project.

(3) No new information of substantial importance has come to light, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete, showing any of the following:

(A) The project will have one or more significant effects not discussed in the previous EIR;

(B) Significant effects previously examined will be substantially more severe than shown in the previous EIR;

(C) Mitigation measures or alternatives previously found not to be feasible would in fact be feasible, and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or

(D) Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

Facts: No new information regarding the Project has been brought to the Town's attention.

SECTION 4. The Addendum to the Yucca Valley Retail Specific Plan EIR reflects the Town Council's independent judgment and analysis regarding the potential environmental effects of the Project and is hereby approved and adopted. The Council directs staff to prepare, execute, and file a CEQA Notice of Determination with the San Bernardino County Clerk's Office.

APPROVED AND ADOPTED by the Town Council and signed by the Mayor and attested by the Town Clerk this _____ day of Month, 2026.

MAYOR

ATTEST:

TOWN CLERK

APPROVED AS TO FORM:

TOWN ATTORNEY

STATE OF CALIFORNIA COUNTY

OF SAN BERNARDINO TOWN OF

YUCCA VALLEY

I, Brooke Dudra, Town Clerk of the Town of Yucca Valley, California hereby certify that the foregoing Resolution No. 26-XX as duly and regularly adopted at a meeting of the Town Council of the Town of Yucca Valley, California at a meeting thereof held on the _____ day of _____, 2026, by the following vote:

Ayes: Council Members

Noes:

Abstain:

Absent: Council Member

Brooke Dudra
TOWN CLERK

ORDINANCE NO. XX-XX

AN ORDINANCE OF THE TOWN COUNCIL OF THE TOWN OF YUCCA VALLEY, CALIFORNIA, ADOPTING SPECIFIC PLAN 01-04, AMENDMENT #2, TO THE YUCCA VALLEY RETAIL CENTER SPECIFIC PLAN

WHEREAS, on June 25, 2008, the Town of Yucca Valley ("Town") Town Council ("Council") adopted the Yucca Valley Retail Specific Plan EIR, and approved the Project; and

WHEREAS, the project includes Amendment #2 to the Specific Plan, allowing a fueling station as a permitted land use and amending the Sign Program to allow for signage on the fuel station and convenience store, and also the construction and operation of a new fuel station with six fueling pumps (12 dispensers), an overhead canopy, underground fuel storage, a trash enclosure, and a 1,556 square-foot convenience store.

The Town Council of the Town of Yucca Valley, California, does ordain as follows:

SECTION 1: The Town of Yucca Valley adopts Specific Plan Amendment #2, on the subject property, identified as assessor's parcel numbers 0601-201-54.

SECTION 2: PUBLIC HEARINGS. Required public hearings were held before the Town of Yucca Valley Planning Commission and Town Council of the Town of Yucca Valley, California pursuant to the Planning and Zoning Law of the State of California and the Yucca Valley Development Code.

SECTION 3: NOTICE OF ADOPTION. Within fifteen (15) days after the adoption hereof, the Town Clerk shall certify to the adoption of this Ordinance and cause it to be published once in a newspaper of general circulation printed and published in the County and circulated in the Town pursuant to Section 36933 of the Government Code.

SECTION 4: EFFECTIVE DATE. This Ordinance shall become effective thirty (30) days from and after the date of its adoption.

APPROVED AND ADOPTED by the Town Council and signed by the Mayor and attested by the Town Clerk this _____ day of May, 2026.

SECTION 5: PUBLICATION

The Town Clerk is authorized and directed to cause this Ordinance to be published within fifteen (15) days after its passage in a newspaper of general circulation and circulated within the Town in accordance with Government Code Section 36933(a) or, to cause this Ordinance to be published in the manner required by law using the alternative summary and posting procedure authorized under Government Code Section 39633(c).

SECTION 6. CERTIFICATION

The foregoing Ordinance was approved and adopted at a meeting of the Town Council held on the _____ day of May, 2026, by the following vote:

Ayes:
Noes:
Absents:
Abstains:

_____
Merl Abel, Mayor

ATTEST:

_____
Brooke Dudra, Town Clerk

_____ _____
Town Attorney Town Manager

Town of Yucca Valley
Planning Commission Staff Report

To: Planning Commission

From: Evan Willoughby, Assistant Planner

Date: April 6, 2026

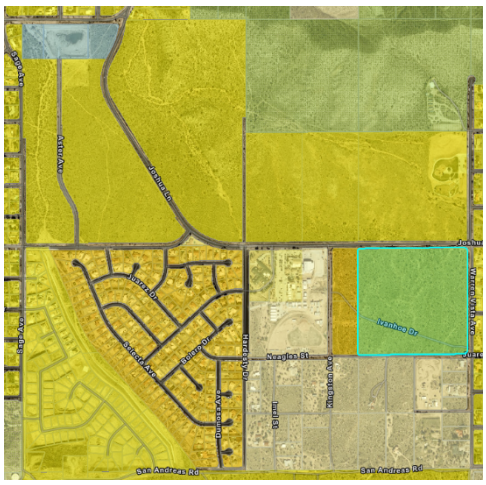
Meeting Date: April 14, 2026

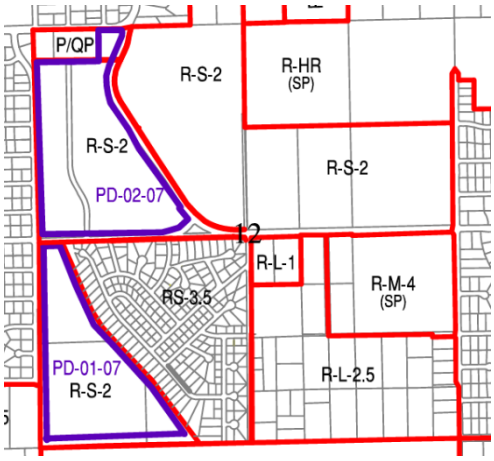
Subject: Development Code Interpretation (DCI 02-26) — A request to waive Official Zoning Map requirement for Specific Plan at an 37.58 acre property located at the SW Corner of Joshua Lane and Warren Vista, also identified as APN: 0585-062-33

Recommendation:
That the Planning Commission finds that the request is consistent with the objectives and policies of the Town of Yucca Valley General Plan and Development Code, and interprets that the Specific Plan requirement for APN: 0585-062-33 does not apply until such time that a project requiring discretionary entitlement is filed for the property, allowing by-right development to proceed as allowed by the underlying zoning district.

Prior Review:
There has been no prior review of this matter.

Discussion:
On February 20, 2026, staff received the attached request for a waiver of specific plan requirements for APN: 0585-062-33, a 37.58 acre property located at the southwest corner of Joshua Lane and Warren Vista. This request was preceded by communication with staff at the front counter regarding the siting of future sewer infrastructure and future development of a single-family home and ADU. To address the Specific Plan Overlay requirements on the Town's Official Zoning Map, staff requested the owner send a written request for a waiver of that requirement that staff can bring to the Planning Commission for review.


Joshua Ave
Joshua Ln
Ivanhoe Dr
Naples St
Linda Dr
San Andreas Rd


P/QP
R-S-2
R-HR
(SP)
R-S-2
R-S-2
PD-02-07
12
R-L-1
R-M-4
(SP)
RS-3.5
PD-01-07
R-S-2
R-L-2.5

Joshua Tree Park
Joshua Ln
Essig Park
Golden West Dr
Copper Hill Homes
Joshua Springs Baptist Church
Premium Pest Management
Naples St
Juarez Dr
Linda St
San Andreas Rd

The General Plan provides overall guidance and a comprehensive vision for the physical development of the entire Town. Specific Plans are typically used for large-scale projects that require a comprehensive approach to planning and infrastructure issues or areas that warrant customized regulatory guidance that is not present in the Town's Development Code.

Specific plans address site-specific concerns and provide guidance for the design, use, and development of that site. Specific plans are typically implemented as customized zoning for a focused geographic area of the Town and can be initiated by the Town or a project applicant.

The Town has three (3) adopted Specific Plans, the Old Town Specific Plan, the Home Depot Retail Specific Plan, and the Yucca Valley Retail (Walmart) Specific Plan. Other areas that have been designated with Specific Plan (SP) requirements on the Town's Official Zoning Map were designated as such by the Town Council to ensure larger, complex proposals in those areas were planned comprehensively.

Single-family, by-right, infill construction on an existing lot of record, including accessory structures as allowed by Code, does not warrant preparation of a Specific Plan in of itself. While the preparation of a Specific Plan may not be necessary in this case, it is still the case that larger, complex projects should be planned comprehensively through a Specific Plan as identified by the Town's Official Zoning Map, and therefore, staff recommends that the Planning Commission interprets that the Specific Plan requirement for APN: 0585-062-33 does not apply until such time that a project requiring discretionary entitlement is filed for the property, allowing by-right development to proceed as allowed by the underlying zoning district.

Alternatives

None.

Fiscal Impact:

None.

Attachments

1. Property Owner Request
2. Yucca Valley Official Zoning Map
3. 1995 - PC Meeting Minutes

Evan Willoughby

From: underwoodoc@yahoo.com
Sent: Friday, February 20, 2026 1:49 PM
To: Evan Willoughby
Subject: Re: APN 0585-062-33 - Planning Inquiry

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Martin Underwood-Underwood Construction
(Acting on behalf of Property Owners – Bill and Marilyn Underwood - APN 585062330000)
1133 Laguna Canyon Rd. #14, Laguna Beach, CA 92651
(949) 828-7374
underwoodoc@yahoo.com

Feb 20, 2026

City of Yucca Valley Building Planning Commission
58928 Business Center Drive Yucca Valley, CA 92284

*Subject: Request for **Waiver of Specific Plan Requirement** – Underwood Residence – APN 585062330000*

Dear Esteemed Members of the Building Planning Commission,

This letter is a formal request for a **waiver of the specific plan requirement** as outlined in the City of Yucca Valley's planning regulations GIS Map designation "SP" for our proposed project, Underwood Residence, located at the corner of Joshua Lane and Warren Vista Avenue APN 585062330000.

We believe that requiring a specific plan for this project is unnecessary and disproportionate to its nature and scope. Our proposed project involves the construction of a single-family dwelling and possibly an ADU to accommodate our aging parents.

The primary reasons we respectfully request this waiver are as follows:

1. **Limited Scope and Impact:** The project's footprint is minimal and confined to a small portion of this large parcel. It will align harmoniously with the existing neighborhood character and zoning, it will not generate significant traffic, noise, or demand on public services. We will diligently design this project with the intent of avoiding any Joshua Trees on the property.

2. **Existing Zoning and General Plan Consistency:** The proposed use is fully consistent with the underlying zoning designation of **R-M-4-SP** and the City's General Plan land use designation for this area; it will meet all objective design standards and development criteria already established for this zone. A specific plan would be redundant and unnecessary.

3. **Unnecessary Burden and Cost:** Developing a comprehensive specific plan for a project of this scale would impose a significant and unnecessary financial and time burden. This costly and lengthy process would add undue expense to an otherwise straightforward build. The additional studies and documentation required for a specific plan are not warranted given the project's simplicity. We believe these resources could be better allocated to the project's direct development costs.

4. **No Unique Planning Challenges:** The project does not introduce innovative land uses, complex design elements, or propose significant infrastructure changes that would necessitate a specialized planning document.

We are committed to developing a project that adheres to all applicable City ordinances and enhances the Yucca Valley community. We firmly believe that the goals and objectives typically addressed by a specific plan can be adequately achieved and reviewed through the standard planning application and review processes, including site plan review and environmental assessment.

We are prepared to provide any additional information or attend any meetings the Commission deems necessary to discuss this request further. Thank you for your time and consideration of this waiver. We look forward to your favorable response.

Sincerely,

Martin Underwood
(949) 828-7374
Underwood Construction

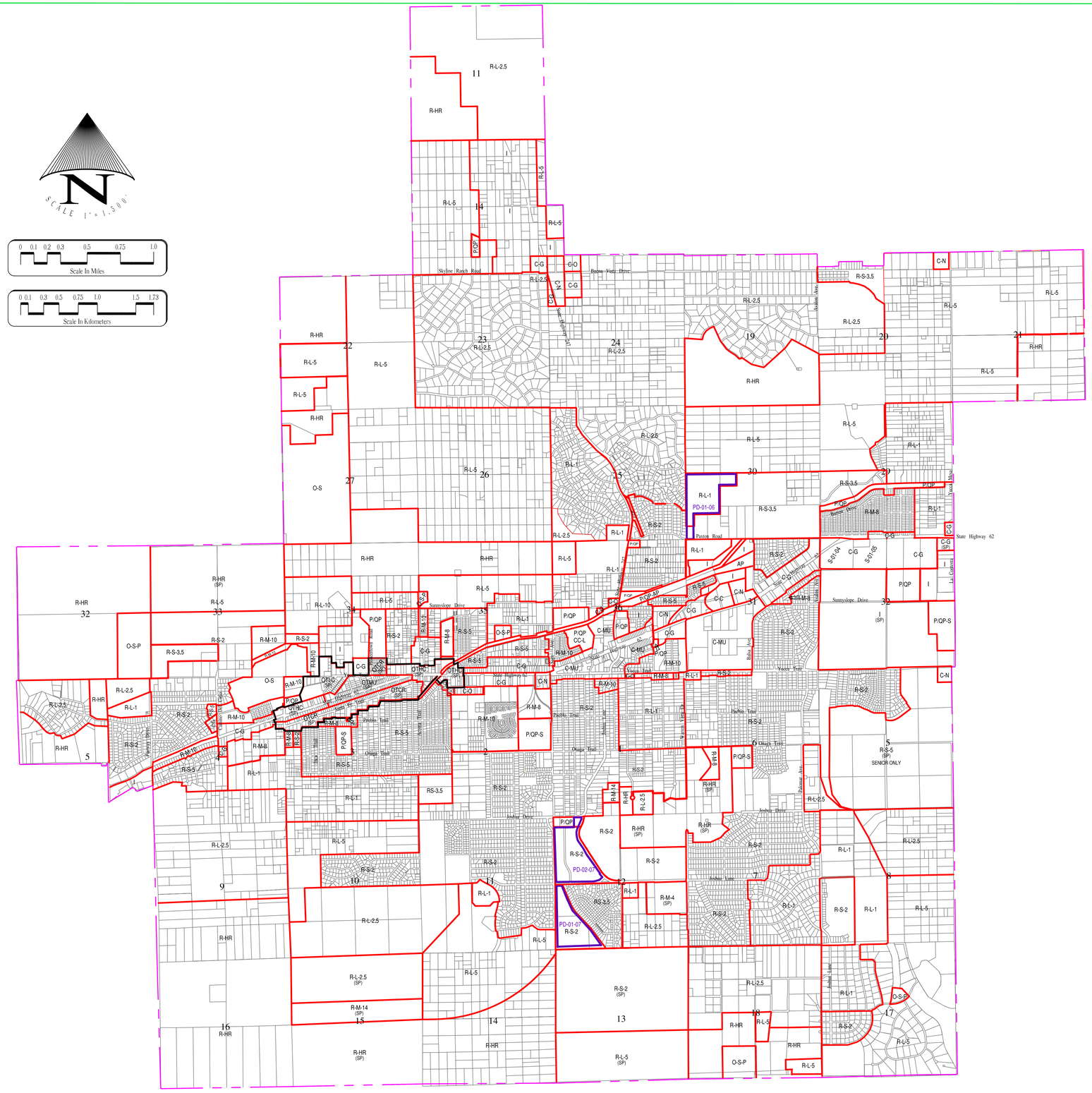
Yahoo Mail: Search, Organize, Conquer

On Thu, Feb 19, 2026 at 5:09 PM, Evan Willoughby <EWilloughby@YUCCA-VALLEY.ORG> wrote:

> Good afternoon,
>
> Thank you for taking the time to discuss the property at APN 0585-062-33. The Zoning Designation of the property is Residential, Multi-Family (R-M-4) with a Specific Plan (SP) requirement on the Official Zoning Map. A request to waive the specific plan requirement may be submitted to staff for review by the Town of Yucca Valley Planning Commission. Please reach out with any additional questions.
>
> Thank you,

2014

OFFICIAL ZONING DISTRICT MAP


N
SCALE 1" = 1,500'
0 0.1 0.2 0.3 0.5 0.75 1.0
Scale In Miles
0 0.1 0.3 0.5 0.75 1.0 1.5 1.73
Scale In Kilometers
Skyline Ranch Road
Rocca Vista Drive
Yucca Trail
Palomar Ave.
Indian Ave.
Baja Ave.
Hilton Head Dr.
Sunnyslope Drive
Paxton Road
Pueblo Trail
Onaga Trail
Warren Vista
Avalon Ave.
Joshua Lane
Joshua Drive
Juniper Inn
Twentynine Palms Highway
State Highway 62
Old Woman Springs Road
Aberdeen Dr.
Hacienda Rd.
La Contenta
Mesa Dr.
Twin Trail
Kiowa Trail
Apache Trail
Navajo Trail
Mohawk Trail
Sioux Trail
Cherokee Trail
Comanche Trail
Iroquois Trail
Seminole Trail
Shoshone Trail
Tonto Trail
Utah Trail
Zuni Trail
Aztec Trail
Inca Trail
Sioux Trail
Mojave Trail
Hopi Trail
Tahquitz Trail
Tahquitz Dr.
Tahquitz Ct.
Tahquitz Pl.
Tahquitz Way
Tahquitz Circle
Tahquitz Lane
Tahquitz Terrace
Tahquitz Trail
Tahquitz Court
Tahquitz Drive
Tahquitz Avenue
Tahquitz Road
Tahquitz Street
Tahquitz Boulevard
Tahquitz Parkway
Tahquitz Highway
Tahquitz Freeway
Tahquitz Expressway
Tahquitz Turnpike
Tahquitz Tollway
Tahquitz Bypass
Tahquitz Loop
Tahquitz Spur
Tahquitz Branch
Tahquitz Fork
Tahquitz Junction
Tahquitz Crossing
Tahquitz Intersection
Tahquitz Interchange
Tahquitz Overpass
Tahquitz Underpass
Tahquitz Tunnel
Tahquitz Bridge
Tahquitz Viaduct
Tahquitz Aqueduct
Tahquitz Canal
Tahquitz Ditch
Tahquitz Creek
Tahquitz River
Tahquitz Lake
Tahquitz Pond
Tahquitz Reservoir
Tahquitz Dam
Tahquitz Levee
Tahquitz Wall
Tahquitz Fence
Tahquitz Gate
Tahquitz Door
Tahquitz Window
Tahquitz Roof
Tahquitz Floor
Tahquitz Ceiling
Tahquitz Basement
Tahquitz Attic
Tahquitz Garage
Tahquitz Shed
Tahquitz Barn
Tahquitz Stable
Tahquitz Corral
Tahquitz Pen
Tahquitz Coop
Tahquitz Hutch
Tahquitz Kennel
Tahquitz Aviary
Tahquitz Aquarium
Tahquitz Terrarium
Tahquitz Vivarium
Tahquitz Insectarium
Tahquitz Museum
Tahquitz Gallery
Tahquitz Studio
Tahquitz Workshop
Tahquitz Factory
Tahquitz Warehouse
Tahquitz Store
Tahquitz Shop
Tahquitz Market
Tahquitz Mall
Tahquitz Plaza
Tahquitz Square
Tahquitz Park
Tahquitz Garden
Tahquitz Orchard
Tahquitz Vineyard
Tahquitz Farm
Tahquitz Ranch
Tahquitz Estate
Tahquitz Villa
Tahquitz Cottage
Tahquitz Cabin
Tahquitz Hut
Tahquitz Shack
Tahquitz Tent
Tahquitz Camp
Tahquitz Campground
Tahquitz Resort
Tahquitz Hotel
Tahquitz Motel
Tahquitz Inn
Tahquitz Lodge
Tahquitz Hostel
Tahquitz Dormitory
Tahquitz Apartment
Tahquitz Condominium
Tahquitz Townhouse
Tahquitz Duplex
Tahquitz Triplex
Tahquitz Quadplex
Tahquitz Multiplex
Tahquitz Complex
Tahquitz Development
Tahquitz Subdivision
Tahquitz Tract
Tahquitz Parcel
Tahquitz Lot
Tahquitz Block
Tahquitz Section
Tahquitz Township
Tahquitz County
Tahquitz State
Tahquitz Country
Tahquitz Continent
Tahquitz World
Tahquitz Universe
Tahquitz Galaxy
Tahquitz Solar System
Tahquitz Sun
Tahquitz Moon
Tahquitz Star
Tahquitz Planet
Tahquitz Asteroid
Tahquitz Comet
Tahquitz Meteor
Tahquitz Meteorite
Tahquitz Satellite
Tahquitz Spacecraft
Tahquitz Rocket
Tahquitz Shuttle
Tahquitz Space Station
Tahquitz Alien
Tahquitz UFO
Tahquitz Extraterrestrial
Tahquitz Life
Tahquitz Death
Tahquitz Birth
Tahquitz Marriage
Tahquitz Divorce
Tahquitz Adoption
Tahquitz Inheritance
Tahquitz Will
Tahquitz Testament
Tahquitz Trust
Tahquitz Estate
Tahquitz Probate
Tahquitz Court
Tahquitz Judge
Tahquitz Jury
Tahquitz Lawyer
Tahquitz Attorney
Tahquitz Prosecutor
Tahquitz Defendant
Tahquitz Plaintiff
Tahquitz Witness
Tahquitz Evidence
Tahquitz Verdict
Tahquitz Sentence
Tahquitz Prison
Tahquitz Jail
Tahquitz Cell
Tahquitz Guard
Tahquitz Warden
Tahquitz Parole
Tahquitz Probation
Tahquitz Release
Tahquitz Escape
Tahquitz Capture
Tahquitz Arrest
Tahquitz Police
Tahquitz Sheriff
Tahquitz Deputy
Tahquitz Marshal
Tahquitz Constable
Tahquitz Detective
Tahquitz Investigator
Tahquitz Crime
Tahquitz Criminal
Tahquitz Victim
Tahquitz Witness
Tahquitz Evidence
Tahquitz Verdict
Tahquitz Sentence
Tahquitz Prison
Tahquitz Jail
Tahquitz Cell
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Tahquitz Warden
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Tahquitz Police
Tahquitz Sheriff
Tahquitz Deputy
Tahquitz Marshal
Tahquitz Constable
Tahquitz Detective
Tahquitz Investigator
Tahquitz Crime
Tahquitz Criminal
Tahquitz Victim
R-L-2.5
R-HR
R-L-5
R-L-1
R-S-2
R-S-3.5
R-M-10
R-M-8
R-M-4
R-M-14
C-G
C-O
C-N
C-MU
P/QP
O-S
O-S-P
AP
I
PD-01-06
PD-02-07
PD-01-07
OTHC
OTI/C
OTMU
OTC/R
R-S-5
SENIOR ONLY
R-L-10
R-S-3.5
R-S-5
R-M-14
R-HR (SP)
R-L-5 (SP)
R-M-14 (SP)
R-M-4 (SP)
R-S-2 (SP)
R-L-2.5 (SP)
P/QP-S
O-S-P
C-G (SP)
I (SP)
S-01/04
S-01/05
CC-L
C-MU
R-M-8
R-S-3.5
R-L-1
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R-L-5
R-L-2.5
R-HR
R-M-10
R-M-8
R-M-4
R-M-14
C-G
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remain RM 8; the 140 acres of RS2 be changed to 2.5 SP and the northern portion remain RL10. Requested the entire Amendment #2 be Specific Planned.

Chair Szymanski would go RM8 and RL2.5 to be Specific Plan. Commissioner Thompson amended motion (RM3 and RL2.5 only be Specific Planned). Chair Szymanski seconded. Motion carried on a 5-0 voice vote.

AMENDMENT #3 (The North 1/2 of the SE 1/4 of Section 12 T1S R5E)

Chair Szymanski was feeling more comfortable with the commercial designation than the RS4. Had taken out general commercial on Skyline Ranch Road the southwest corner (OWSR). Was thinking that intersection of Old Woman Springs Road and Highway 62 have a commercial designation. Was open to put in commercial and see what reaction would be for the Town Council. Was concerned with RS4.

Commissioner Sachs was not clear on what was decided. Talked about 37 acres being RM4. Commissioner Huntington commented the request was amended with the 1/2 of Section 3 went back to RL2.5 for the southern part. 37 acres was correct, the request was for RM4 with the CS on the 2 acres to the east.

Joe Yott asked to identify sections. Chair Szymanski commented the section the Commission is talking about now is Section 12, in the southeast portion. Stueckle interjected the north half of the southeast corner of Section 12.

Commissioner Thompson had heard vocal persons outside of meetings that do not want commercial in that area. Believed that area will eventually enjoy a small commercial area, not a 7-11 store especially. In a planning perspective she is for that, not sure the Council is for it. Commissioner Huntington had on 37 acres RM4 SP, that is 148 units. Chair Szymanski would be willing to try a commercial.

Commissioner Malin commented commercial makes since because there is institutional projects there already with the church and Moyles. If have multi residential there, the commercial will fit in with the multi use type of zoning. As a planning tool it works in this area. Commissioner Sachs would be in favor of leaving commercial in.

Commissioner Sachs was for RM4 SP and commercial. Commissioner Thompson clarified RM4 for 37 acres.

Commissioner Huntington moved to recommend the northern portion of the southeast corner of Section 12 be designated RM4 SP with the 2 acres on the east be designated CS that also with SP designation. Commissioner Malin seconded. Motion carried on a 4-1 voice vote. Chair Szymanski opposed.

have the ability to adopt the General Plan as written. The Commission has the ability to restate their requests.

Commissioner Thompson had a question on Mr. Thacher's comments. Asked Mr Thacher he was talking about something was inaccurate on the chart. Thacher was addressing Section 33. On the April 27 GPAC, they walked away with 1 to the acre for the north 1/2 of the section (i.e. from the center section line up to the top of the ridge) then it was 2 to the acre coming down the rest of the way to basically Camino Del Cielo, then the higher density adjacent to the golf course. The map still shows the high density next to the golf course, but there is a strip in there that is not high density, a buffer between the golf course and this high density. That high density should come down to the golf course. That is part of the object of having a condominium situation contiguous to a golf course. There is an area the map shows as a white triangle in opposition to the colors of the high density and the golf course. At one time it is was 1 to 5 acres for the north half. Never has the south half been less than two to the acre. Never has the high density down by the golf course change.

Commission Thompson clarified so the one third plus/minus that should be at least RS2. Thacher responded yes, RS2 two to the acre not one to every two acres. Where the high density misses the golf course would like to see corrected. It does not make sense to have a golf course a low density buffer and then high density where logically someday condominiums will go, that should extend down to the golf course.

Vice Chair Sachs asked to clarify Section 12. Thacher asked the Commission to state their position as agreeing with his recommendation that the 40 acre corner of Warren Vista and Joshua Lane, the southwest corner, be given a designation of multiple units 4 to the acre. The object there is to put in a retirement village. Thought the Town Council wanted the Planning Commission's input and thoughts.

Town Council indicated they would like to adopt the General Plan with the preferred alternative land use map that is included as part of that General Plan, which is around the 48,000 figure. Then to include the alternative language for Section 13, Section 15, Section 5 and Section 33. Have been able to accommodate Section 5 of the Miller's property so that is a non issue. Then, Section 12 was requested to again include the land uses stated in the preferred alternative and not employ the alternative language.

Commissioner Huntington thought because it was a split vote on the Commission's decision on this they cannot reaffirm their decisions of last Planning Commission meeting at this meeting without further study and being a 5 member panel with only 4 members present. They are an appointed advisory committee and they are responsible to Council. It is also their responsibility if they feel strongly enough about an issue to voice that issue. Would recommend to move on to the letters and settle that issue.

Town of Yucca Valley
Planning Commission Staff Report

To: Planning Commission

From: Jared Jerome, Senior Planner, Evan Willoughby, Assistant Planner

Date: March 24, 2026

Meeting Date: April 14, 2026

Subject: Land Development Update

Recommendation:
That the Planning Commission receives and files the report.

Prior Review:
There has been no prior review of this item.

Discussion:
Town staff will provide the Planning Commission with an update on current private land development and capital projects and anticipated schedules.

Alternatives
None.

Fiscal Impact:
None.

Attachments
None